DSC-TX10/TX100/TX100V

User Guide

Use this manual if you encounter any problems, or have any questions about the camera.
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Operation Search
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This User Guide explains how to use each function of the camera, how to change settings, and how to troubleshoot a problem.

Selecting a topic to display

The following illustrations take Internet Explorer 7 as an example.

1. Click a title in the side bar on the left of the browser window.
   The title’s topic list appears in the right pane.
2. Click a topic title in the list.

Descriptions appear in the right pane.
Changing the font size
Change the font size by changing the setting of your web browser. For how to change the font size setting, refer to the Help of your web browser.

Returning to a previous page
Use the back button of your web browser or the breadcrumb trail navigation to return to a page you previously viewed.

Printing out a page
Click the [Print] button to print out a page you are viewing.

Marks and notations used in this User Guide
In this User Guide, the sequence of operations is shown by arrows (→) (A). Operate the camera in the order indicated.
• Icons in the operating procedure sentences appear when the camera is in its default settings.
• The default setting is indicated by ☑.
• 🌃 indicates information that is useful to know.
The models, images and illustrations used in this User Guide

- **Models described in this User Guide**
  Models described in this User Guide are of the DSC-TX10 / TX100 / TX100V. Difference of each model are as follows:
  - **DSC-TX10**: Water resistance
  - **DSC-TX100**: 1080p-compatible
  - **DSC-TX100V**: 1080p-compatible / GPS
    - On 1080p movie format
      Progressive mode increases resolution over standard interlaced recording mode, resulting in smoother and more realistic images.

- **Images used in this User Guide**
  - The images used as examples in this User Guide are reproduced images, and are not actual images shot using this camera.

- **Illustrations used in this User Guide**
  - Illustrations used in this User Guide are of the DSC-TX10 unless noted otherwise.
Names of parts

DSC-TX10

1. Microphone
2. Lens cover
3. Flash
4. Self-timer lamp / Smile Shutter lamp / AF illuminator
5. Lens

6. ➤ (Playback) button
7. MOVIE (Movie) button
8. Screen / Touch panel
9. ON/OFF (Power / Charge) button
10. ON/OFF (Power / Charge) lamp
11. Shutter button
For shooting: W/T (zoom) lever

Hook for wrist strap

HDMI connector
Multi connector (Type3b)
Memory card slot
Access lamp
Battery eject lever
Connector cover
Battery / Memory card cover
(TransferJet™) mark
Battery insertion slot
Tripod receptacle

DSC-TX100 / TX100V

Flash
Lens cover
Microphone
GPS sensor (built-in)
5 Lens
6 Self-timer lamp / Smile Shutter lamp / AF illuminator

7 Speaker
8 (Playback) button
9 Screen / Touch panel
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11 Shutter button
12 For shooting: W/T (zoom) lever
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<th>Indication</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Number of recordable images (Dual Rec) (DSC-TX10)</td>
</tr>
</tbody>
</table>
| ![icon](image) | Movie shooting scene  
![is displayed only on DSC-TX10.](image) |
| ![icon](image) | Scene Recognition icon |
| ![icon](image) | Vibration warning |
| ![icon](image) | Anti Blink |
| ![scene] | Scene Recognition |
| ![overlay] | Overlay icon for Superior Auto |
| REC Standby | Recording a movie / Movie standby |
| 0:12 | Recording time (m:s) |
| ![face] | Face detection |
| ![white_balance] | White balance  
![is displayed only on DSC-TX10.](image) |
| ![metering_mode] | Metering Mode |
| ![defocus_effect] | Defocus Effect |
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<thead>
<tr>
<th>Display</th>
<th>Indication</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Soft Skin Effect</td>
</tr>
<tr>
<td></td>
<td>Burst Setting</td>
</tr>
<tr>
<td>Off</td>
<td>Eye-Fi Mode display</td>
</tr>
<tr>
<td></td>
<td>Overheating warning</td>
</tr>
<tr>
<td>FULL</td>
<td>Database file full / Database file error</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Display</th>
<th>Indication</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AE/AF lock</td>
</tr>
<tr>
<td>ISO400</td>
<td>ISO number</td>
</tr>
<tr>
<td>NR</td>
<td>NR slow shutter</td>
</tr>
<tr>
<td>125</td>
<td>Shutter speed</td>
</tr>
<tr>
<td>F3.5</td>
<td>Aperture value</td>
</tr>
<tr>
<td>+2.0EV</td>
<td>Exposure value</td>
</tr>
<tr>
<td>1</td>
<td>AF range finder frame indicator</td>
</tr>
<tr>
<td></td>
<td>Close Focus</td>
</tr>
<tr>
<td></td>
<td>Flash mode</td>
</tr>
<tr>
<td></td>
<td>Red-eye reduction</td>
</tr>
<tr>
<td></td>
<td>Flash charging</td>
</tr>
<tr>
<td></td>
<td>Wind Noise Reduction</td>
</tr>
</tbody>
</table>

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### Display Indication

<table>
<thead>
<tr>
<th>Display</th>
<th>Indication</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Battery remaining</td>
</tr>
<tr>
<td></td>
<td>Low battery warning</td>
</tr>
<tr>
<td></td>
<td>Touch panel invalid</td>
</tr>
<tr>
<td>GPS</td>
<td>GPS (DSC-TX100V)</td>
</tr>
<tr>
<td></td>
<td>Position Information (DSC-TX100V)</td>
</tr>
<tr>
<td></td>
<td>Zoom scaling</td>
</tr>
<tr>
<td></td>
<td>Buffer writing (DSC-TX100 / TX100V)</td>
</tr>
<tr>
<td>CAPTURE</td>
<td>Capture</td>
</tr>
<tr>
<td></td>
<td>Recording Media (Memory card / Internal memory)</td>
</tr>
<tr>
<td></td>
<td>AF Illuminator</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Display</th>
<th>Indication</th>
</tr>
</thead>
<tbody>
<tr>
<td>100Min</td>
<td>Recordable time</td>
</tr>
<tr>
<td>•102</td>
<td>Recording folder</td>
</tr>
<tr>
<td>•102 •24:00</td>
<td>Self-timer</td>
</tr>
<tr>
<td>C:32:00</td>
<td>Self-diagnosis display</td>
</tr>
<tr>
<td></td>
<td>Warning indicator pertaining to still image recording</td>
</tr>
<tr>
<td></td>
<td>Destination (DSC-TX10 / TX100)</td>
</tr>
<tr>
<td></td>
<td>AF range finder frame</td>
</tr>
<tr>
<td></td>
<td>Spot metering cross-hairs</td>
</tr>
<tr>
<td></td>
<td>Image size / Panorama image size / Quality is displayed only on DSC-TX100 / TX100V.</td>
</tr>
<tr>
<td>96</td>
<td>Number of recordable images</td>
</tr>
<tr>
<td></td>
<td>Write Date</td>
</tr>
</tbody>
</table>

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<th>Display</th>
<th>Indication</th>
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</thead>
<tbody>
<tr>
<td>10M</td>
<td>Burst Images</td>
</tr>
<tr>
<td>M</td>
<td>Main image in the burst group</td>
</tr>
<tr>
<td>•</td>
<td>Protect</td>
</tr>
<tr>
<td>DPOF</td>
<td>Print order (DPOF)</td>
</tr>
<tr>
<td>x2.0</td>
<td>Playback zoom</td>
</tr>
<tr>
<td></td>
<td>Playback Media (Memory card / Internal memory)</td>
</tr>
<tr>
<td>OFF</td>
<td>Eye-Fi Mode display</td>
</tr>
</tbody>
</table>
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<thead>
<tr>
<th>Display</th>
<th>Indication</th>
</tr>
</thead>
<tbody>
<tr>
<td>101-0012</td>
<td>Folder-file number</td>
</tr>
<tr>
<td>2011-1-1 9:30 AM</td>
<td>Recorded date / time of the playback image</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Display</th>
<th>Indication</th>
</tr>
</thead>
<tbody>
<tr>
<td>[battery icon]</td>
<td>Battery remaining</td>
</tr>
<tr>
<td>[low battery icon]</td>
<td>Low battery warning</td>
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<td>TransferJet settings</td>
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<td>[MP4 AVCHD]</td>
<td>View mode</td>
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<td>[Metering Mode]</td>
<td>Metering Mode</td>
</tr>
<tr>
<td>[Flash Mode]</td>
<td>Flash mode</td>
</tr>
<tr>
<td>[White Balance]</td>
<td>White balance (This is displayed only on DSC-TX10.)</td>
</tr>
<tr>
<td>+2.0EV</td>
<td>Exposure value</td>
</tr>
</tbody>
</table>

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<th>Display</th>
<th>Indication</th>
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<tr>
<td>500</td>
<td>Shutter speed</td>
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<tr>
<td>F3.5</td>
<td>Aperture value</td>
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<td>ISO400</td>
<td>ISO number</td>
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<td>C:32:00</td>
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<td>35° 37' 32&quot; N 139° 44' 31&quot; E</td>
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<td>Playback</td>
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<td>Variable speed playback</td>
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<td>Playback bar</td>
</tr>
<tr>
<td>00:00:12</td>
<td>Counter</td>
</tr>
<tr>
<td></td>
<td>GPS (DSC-TX100V only)</td>
</tr>
<tr>
<td>---</td>
<td>----------------------</td>
</tr>
<tr>
<td></td>
<td>GPS setting (DSC-TX100V only)</td>
</tr>
<tr>
<td>Volume</td>
<td></td>
</tr>
</tbody>
</table>
Using the wrist strap

Attach the strap and place your hand through the loop to prevent the camera from damage by being dropped or submerged.

**DSC-TX10**

**DSC-TX100 / TX100V**
Using the paint pen

The paint pen is used when operating the touch panel. It attaches to the wrist strap.

Notes
- Do not carry the camera by holding the paint pen. The camera may drop.
- The supplied paint pen uses only for this model. Using a pointed object other than the supplied paint pen and its use may cause a malfunction.
Taking advantage of the touch panel

The available functions may differ according to the screen mode. Touch the screen to perform operations such as enlarging desired images or selecting a function with your finger.

<table>
<thead>
<tr>
<th>Screen</th>
<th>Action</th>
<th>Operating method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shooting</td>
<td>Invalid the touch panel operation</td>
<td>Touch [ ] few seconds to be displayed the icon.</td>
</tr>
<tr>
<td>Shooting / Selecting the shooting mode</td>
<td>Displays the function names.</td>
<td>Touch [ ] on the top right of the screen → item you want to know.</td>
</tr>
<tr>
<td>Viewing</td>
<td>Turn the page to previous / next.</td>
<td>Drag the screen to the right or left.</td>
</tr>
</tbody>
</table>

Notes
- Some droplet is swashed icon on the screen and its may react. We recommended to invalid the touch panel operation using near water. (DSC-TX10)
- Do not operate in the following situations, otherwise it may cause a malfunction:
  - Operating a fine-tipped object such as pencils, ball-point pens and finger nails.
  - Operating the touch panel when the hand holding the camera is protruding from the panel frame over the touch panel.
- The touch panel is less likely to react when gloves are worn.
- For DSC-TX10, the touch panel cannot be operated underwater. Use the buttons of the camera to perform shooting or playback operations.
Customizing the desired items

You can customize the buttons to the desired MENU items and layout, letting you conveniently locate frequently used buttons.

Customizing MENU items

You can customize 4 menus below the MENU button turn to the desired button in REC Mode / View Mode.

1. Touch MENU then displays the MENU screen.

2. (Customize) → [OK]

3. Keep touching the desired MENU item icon and drag it to the desired position in the customize area. It swaps the position with the MENU item icon currently at the position in the customize area. In viewing mode, the customize area is displayed in the lower part of the screen.

4. To cancel, touch or [OK].

Taking advantage of customization

In addition to swapping icons, you can also swap the positions of icons in the customize area, or reduce the number of icons.

Swapping MENU icons inside the customization area

While touching a MENU icon inside the customization area, move to the desired area.
Reducing the number of icons in the customization area
While touching a MENU icon inside the customization area, move to the area on the right.

**Note**
- You cannot customize the MENU icon in Easy Mode.
Using the internal memory

On image data stored in the internal memory
The camera has approximately 19 MB of internal memory. This memory is not removable. You can record still images on the internal memory when there is no memory card inserted in the camera.

When a memory card is inserted
[Recording]: Images are recorded on the memory card.
[Playback]: Images on the memory card are played back.
[Menu, Settings, etc.]: Various functions can be performed with images on the memory card.

When there is no memory card inserted
[Recording]: Images are recorded using the internal memory. However, movies cannot be recorded to the internal memory.
[Playback]: Images stored in the internal memory are played back.
[Menu, Settings, etc.]: Various functions can be performed with images in the internal memory.

On image data stored in the internal memory
We recommend that you copy (back up) data using one of the following methods.

To copy (back up) data on a hard disk of your computer
Without a memory card inserted in the camera, import the images into a computer. [Details]
[Details]

To copy (back up) data on a memory card
Prepare a memory card with sufficient free capacity, then copy the images in the internal memory to the memory card. [Details]

Notes
- You cannot transfer image data on a memory card to the internal memory.
- By making a USB connection between the camera and a computer, you can transfer data stored in the internal memory to a computer. However you cannot transfer data on a computer to the internal memory.
In-Camera Guide

This camera contains an internal function guide. This allows you to search for camera functions according to your needs. You can use the selected function after reading the guide.

1. Touch the (In-Camera Guide).

2. Select a search method.

Operate following the instructions displayed in the lower part of the screen. The following explanations take [Shoot/ playback guide] as an example.

3. Select the desired mode, then touch [See details].

Functions available in the selected function is displayed.

4. Select the desired function.
The operation guide for the selected function is displayed.

5. Drag the screen to see the summary, operation guide and details.
   - The operation guide and details may not be displayed, depending on the selected function.
   - When you select [Use this function], the camera switches to the selected mode automatically.

6. To cancel, touch \( \times \).

<table>
<thead>
<tr>
<th>Guidance</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shoot/ playback guide</td>
<td>Search for various operation functions in shooting / viewing mode.</td>
</tr>
<tr>
<td>Icon guide</td>
<td>Search the function and meaning of displayed icons.</td>
</tr>
<tr>
<td>Troubleshooting</td>
<td>Search common problems and their solution.</td>
</tr>
<tr>
<td>Objective guide</td>
<td>Search functions according to your needs.</td>
</tr>
<tr>
<td>Keyword</td>
<td>Search functions by key words.</td>
</tr>
<tr>
<td>History</td>
<td>Display the last 10 items displayed in [In-Camera Guide].</td>
</tr>
</tbody>
</table>

**Notes**

- ![In-Camera Guide] button is not available in Easy Mode.
- [Use this function] may not be available, depending on the selected function.
Shooting still images

1. Lower the lens cover to switch to shooting mode.

2. Hold the camera steady as illustrated and compose the shot.

3. Press the shutter button halfway down to focus.

- The shortest shooting distance is approximately 1 cm (13/32 inches) (W), 50 cm (1 ft 7 3/4 inches) (T) (from the lens).

4. Press the shutter button fully down.

⚠️ If you shoot a still image of a subject that is difficult to focus on

- When the camera cannot focus on the subject automatically, the AE/AF lock indicator changes to slowly flashing and the beep does not sound. Either recompose the shot or change the focus setting. [Details]

- Focusing may be difficult in the following situations:
  - It is dark and the subject is distant.
- The contrast between the subject and the background is poor.
- The subject is seen through glass.
- The subject is moving quickly.
- There is reflective light or shiny surfaces.
- The subject is backlit or there is a flashing light.

**Related Topic**

Viewing still images
Still Image Size / Panorama Image Size

Copyright 2011 Sony Corporation
Zoom

You can enlarge the image when shooting. The camera’s optical zoom function can enlarge images up to 4×.

1. Set to the shooting mode.
2. Slide the W/T (zoom) lever.
   Slide the W/T (zoom) lever to T side to zoom in, W side to zoom out.

- When the zoom scale exceeds 4×, set [Digital Zoom]. [Details]

Note
- The camera zooms slowly while shooting a movie.
- Zoom is locked to the W side in the following situations:
  - In iSweep Panorama mode
  - In 3D Sweep Panorama mode
  - In Sweep Multi Angle
  - In Underwater iSweep Panorama mode (DSC-TX10)
Shooting movies

DSC-TX10

1. Lower the lens cover to switch to shooting mode.

2. Press the MOVIE (Movie) button (A) to start recording.

3. Press the MOVIE button again to stop recording.

DSC-TX100 / TX100V

1. Lower the lens cover to switch to shooting mode.

2. Touch (Movie button) to start recording.

3. Touch (Movie button) again to stop recording.

Notes

- The operating sound of the MOVIE button may be recorded when stopping movie recording. (DSC-TX10)
- Continuous shooting is possible for approximately 29 minutes at one time at the camera’s default settings and when the temperature is approximately 25 °C (77 F°). When movie recording is finished, you can restart recording by pressing the MOVIE button or (Movie button) again. Recording may stop to protect the camera depending on the ambient
temperature.

Related Topic
Zoom
Shooting still images while recording a movie (Dual Rec)
Movie Quality / Movie Size
Movie format
Shooting still images while recording a movie (Dual Rec)

You can shoot still images while recording a movie. The camera keeps recording the movie even if you shoot still images.

**DSC-TX10**

Up to 10 still images can be shot during one movie recording.

1. Press the MOVIE (Movie) button to start recording a movie.

2. Press the shutter button.
   - A still image is recorded.
   - The number of recordable still images (A) appears on the screen when you press the shutter button halfway down.

3. Press the MOVIE button again to stop recording the movie.
   - After recording movies, the still images you recorded are displayed in frames.

**DSC-TX100 / TX100V**

1. Touch Movie button on the screen to start recording a movie.

2. Press the shutter button.
   - A still image is recorded.
3. Touch (Movie button) again to stop recording.

**Notes**
- When the movie quality is set to [AVC HD 28M (PS)], the Dual Rec function cannot be used. (DSC-TX100 / TX100V)
- Flash is not available for shooting still images during movie recording.
- The image size of still images is fixed to [16:9 (3M)]. If the movie image size is set to [MP4 3M], the still image size is fixed to [4:3 (2M)].
- When the Smile Shutter function is set to [On], the shutter releases automatically each time the camera detects smiling face.
- If the memory card capacity is insufficient or 10 images have been shot, 📸 appears on the screen. This icon indicates that no more still images can be shot.
**REC Mode**

You can select the shooting mode based on condition and objective.

1. Set to the shooting mode.
2. Touch \( \text{REC Mode} \to \) desired mode

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ ] (Intelligent Auto)</td>
<td>Allows you to shoot with the setting adjusted automatically. [Details]</td>
</tr>
<tr>
<td>[ ] (Superior Auto)</td>
<td>Allows you to shoot still images in higher quality than with Intelligent Auto mode. [Details]</td>
</tr>
<tr>
<td>[ ] (Panorama Shooting Scene) (DSC-TX10)</td>
<td>Allows you to create a panoramic image from composite images. [Details]</td>
</tr>
<tr>
<td>[ ] (iSweep Panorama) (DSC-TX100 / TX100V)</td>
<td>Allows you to shoot panoramic images underwater. [Details]</td>
</tr>
<tr>
<td>[ ] (Underwater iSweep Panorama) (DSC-TX10)</td>
<td>Allows you to shoot panoramic images underwater. [Details]</td>
</tr>
<tr>
<td>[ ] (Movie shooting scene)</td>
<td>Allows you to record movies. [Details]</td>
</tr>
<tr>
<td>[ ] (Program Auto)</td>
<td>Allows you to shoot with the exposure adjusted automatically (both the shutter speed and the aperture value). [Details] Also you can select various settings using the menu.</td>
</tr>
<tr>
<td>[ ] (Background Defocus)</td>
<td>Allows you to shoot an image with background defocus and define the subject. [Details]</td>
</tr>
<tr>
<td>[ ] (Scene Selection)</td>
<td>Allows you to shoot with preset settings according to the scene. [Details]</td>
</tr>
<tr>
<td>[ ] (3D Shooting)</td>
<td>Allows you to shoot 3D images by composing images. [Details]</td>
</tr>
</tbody>
</table>
Intelligent Auto

Allows you to shoot still images with the setting adjusted automatically.

1. Set to the shooting mode.

2. \( \text{REC Mode} \) \( \rightarrow \) \( \text{Intelligent Auto} \).

3. Shoot with the shutter button.

Note
- You may not be able to set some functions depending on the selected REC mode. For details, see “Functions not available in some REC modes” [Details] and “MENU items not available in some REC modes.” [Details]

On Scene Recognition

Scene Recognition operates in Intelligent Auto mode. This function lets the camera automatically recognize the shooting conditions and shoot the image.

In Scene Recognition, the position of an icon displayed on the screen is different depending on whether the camera recognizes a scene or condition.

If the camera recognizes a scene, icons and guides such as \( \text{Portrait} \), \( \text{Infant} \), \( \text{Twilight Portrait} \), \( \text{Twilight} \), \( \text{Backlight Portrait} \), \( \text{Backlight} \), \( \text{Landscape} \), \( \text{Macro} \), \( \text{Close Focus} \), \( \text{Spotlight} \) or \( \text{Low Light} \), are displayed on the first line. If the camera recognizes a condition, icons such as \( \text{Tripod} \) or \( \text{Move} \) are displayed on the second line. The camera may recognize both the scene and condition, or just one.

For details, see “Scene Recognition.” [Details]

Related Topic
Scene Recognition
Superior Auto

The camera combines Scene Recognition and high-quality image technology to automatically shoot the images with the optimal settings.

1. Set to the shooting mode.
2. (REC Mode) → (Superior Auto).

3. Shoot with the shutter button.
   The camera shoots burst images when needed and overlays multiple images. By overlaying the images, the camera records an image with less subject blur and noise.

What is the difference between Superior Auto mode and Intelligent Auto mode?
In Superior Auto mode, the camera shoots burst images based on the recognized scene, then creates a composite of the burst images (Overlay shooting). The camera automatically corrects the backlight and reduces noise by overlaying images, so a higher-quality image than in Intelligent Auto mode.

A: Scene Recognition
- Twilight
- Twilight Portrait
- Backlight
- Backlight Portrait
- Landscape
Macro
Close Focus
Portrait
Infant
Spotlight
Low Light
Tripod
Move

**Overlaying processing**

- Hand-held Twilight
- Anti Motion Blur
- Backlight Correction HDR

- The camera automatically selects an overlaying mode based on the recognized scene, and (overlay) appears on the screen.

**Notes**

- When the camera overlays images, it takes more time to record an image.
- [Flash] is fixed to [Auto] or [Off]. In low light conditions such as night scenes, set [Flash] to [Off] to achieve the optimal effect of the overlaid images.
- The effect of reduced noise is less effective in the following situations:
  - Subjects are moving
  - Subjects are too close to the camera
  - Images with little contrast, such as sky, sandy beach or lawn
  - Images with constant changes, such as waves or waterfalls
- You may not be able to set some functions or MENU items depending on the selected REC mode. For details, see “Functions not available in some REC modes” [Details] and “MENU items not available in some REC modes.” [Details]

**Related Topic**

Scene Recognition
iSweep Panorama

Allows you to create a panoramic image from composite images. The camera also automatically detects people’s faces or moving subjects.

1. Set to the shooting mode.

DSC-TX10

2. (REC Mode) → (Panorama Shooting Scene) → (iSweep Panorama)

DSC-TX100 / TX100V

2. (REC Mode) → (iSweep Panorama)

Do as the following after step 2.

3. Align the camera with the end of the subject to be shot and press the shutter button fully.

- A black, translucent portion (A) appears before shooting. That part will not be recorded.
- Touch (B) to change the shooting direction.

4. Pan the camera to the end of the guide (C), following the arrow indication on the screen.

**Shooting High Resolution panorama images**

If you set [Panorama Image Size] to (High Resolution), a 43 megapixel-size panoramic image (10480×4096) can be shot.

1. Hold the camera vertically.
2 Touch  /  on the LCD screen to select the shooting direction.

3 Pan the camera to shoot.

Tips for shooting a panorama image

Pan the camera in an arc at a constant velocity in the direction indicated on the screen. Subjects at rest are more suited for panorama shots than moving subjects. Radius as short as possible.

- First, press the shutter button halfway to lock the focus and exposure. Then, press the shutter button fully down and pan or tilt the camera.
- If a section with greatly varied shapes or scenery is concentrated along a screen edge, the
image composition may fail. In such case, adjust the frame composition so that the section is in the center of the image, then shoot again.

**Notes**

- If you cannot pan the camera across the entire subject within the given time, a gray area occurs in the composite image. If this happens, move the camera faster to record a full panorama image.
- Since several images are stitched together, the stitched part will not be recorded smoothly.
- Under low light conditions, panorama images may be blurred or the shooting may not be successful.
- Under lights that flicker, such as fluorescent lights, the brightness or color of the combined images may not be consistent.
- When the whole angle of panoramic shooting and the AE/AF locked angle are very different in brightness, color and focus, shooting will not be successful. If this happens, change the AE/AF locked angle and shoot again.
- Sweep Panorama is not suitable in the following situations:
  - Moving subjects
  - Subjects are too close to the camera
  - Images with little contrast, such as sky, sandy beach or lawn
  - Images with constant changes, such as waves or waterfalls
- You cannot create panorama images in the following situations:
  - You pan the camera too quickly or too slowly.
  - There is too much camera shake.
- You may not be able to set some functions or MENU items depending on the selected REC mode. For details, see “Functions not available in some REC modes” [Details] and “MENU items not available in some REC modes.” [Details]

**Related Topic**

- Scrolling the panorama images for display
- Still Image Size / Panorama Image Size
Underwater iSweep Panorama (DSC-TX10 only)

When using Underwater iSweep Panorama, white balance is suited for shooting in underwater. Allows you to create a panoramic image from composite images. The camera also automatically detects people’s faces or moving subjects. Make any necessary settings that are set using the touch panel before using the camera underwater.

1. Set to the shooting mode.

2. (REC Mode) → (Panorama Shooting Scene) → (Underwater iSweep Panorama)

3. Align the camera with the end of the subject to be shot and press the shutter button fully.

(A) will not be taken.

Touch (B) to change the shooting direction. Make any necessary settings that are set using the touch panel before using the camera underwater.

4. Pan the camera to the end of the guide (C), following the indication on the screen.

Notes

- If you cannot pan the camera across the entire subject within the given time, a gray area occurs in the composite image. If this happens, move the camera faster to record a full panorama image.
- Since several images are stitched together, the stitched part will not be recorded smoothly.
- Under low light conditions, panorama images may be blurred or the shooting may not be successful.
- Under lights that flicker, such as fluorescent lights, the brightness or color of the combined images may not be consistent.
- When the whole angle of panoramic shooting and the AE/AF locked angle are very different in brightness, color and focus, shooting will not be successful. If this happens, change the AE/AF locked angle and shoot again.
- Sweep Panorama is not suitable in the following situations:

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- Subjects are too close to the camera
- Images with little contrast, such as underwater, sky, sandy beach or lawn
- Images with constant changes, such as waves or waterfalls
- Lots of moving subjects, such as school of fish, etc.
- In underwater, hard to stay still for shooting.

● You cannot create panorama images in the following situations:
  - You pan the camera too quickly or too slowly.
  - There is too much camera shake.

● You may not be able to set some functions depending on the selected REC mode. For details, see “Functions not available in some REC modes” [Details] and “MENU items not available in some REC modes.” [Details]
Movie Mode

Allows you to record movies. You can select various settings using the menu for Movie Mode.

1. Set to the shooting mode.
2. (REC Mode)  (Movie Mode)

DSC-TX10
3. Press the MOVIE (Movie) button to start recording a movie.
4. Press the MOVIE button to stop recording the movie.

DSC-TX100 / TX100V
3. Touch the (Movie button) to start recording a movie.
4. Touch the (Movie button) again to stop recording.

Note
- You may not be able to set some functions or MENU items depending on the selected REC mode. For details, see “Functions not available in some REC modes” [Details] and “MENU items not available in some REC modes.” [Details]
**Program Auto**

Allows you to shoot with the exposure adjusted automatically (both the shutter speed and the aperture value). Also you can select various settings using the menu.

1. Set to the shooting mode.

2. `i` (REC Mode) → `P` (Program Auto).

3. Shoot with the shutter button.

**Note**
- You may not be able to set some functions or MENU items depending on the selected REC mode. For details, see “Functions not available in some REC modes” [Details] and “MENU items not available in some REC modes.” [Details]
Background Defocus

Allows you to shoot an image with image processing so that the subject stands out from the background.

1. Set to the shooting mode.
2. (REC Mode) → (Background Defocus).
3. Shoot with the shutter button.

Tips for adjusting the intensity of the background defocus
- Before shooting, touch MENU → [Defocus Effect] → [High], [Mid] or [Low] to change the intensity of the background defocus effect.

Tips for defocusing the background

Position of the subject and the background

If you shoot an image with the subject and background far apart, as shown in the illustration, the background can be defocused. Shoot from the recommended shooting distance indicated on the screen.

Subject is sufficiently distant from the background
**Subject and background are too close**

When you shoot a flower and a small item from close up, slide the W/T (zoom) lever to the W side. For shooting people, move a short distance away from the subject and slide the W/T (zoom) lever to the T side.

- To lock the focus on the subject more easily, use the Tracking focus function of the camera. [Details]

**Notes**

- When shooting, hold the camera still to reduce camera shake.
- The background may not be defocused in the following situations:
  - The scene is too bright or too dark.
  - The subject is moving.
  - The subject is too far from the camera. (The recommended shooting distance has been exceeded.)
  - The subject is too close to the background.
- The Background Defocus effect may not work effectively in the following situations:
  - The subjects are too small.
  - The subject is the same color as the background.
  - You moved the camera after setting the AE/AF lock.
- If you are unable to defocus effectively, try the following steps:
  - Slide the W/T (zoom) lever to the T side.
  - Approach the subject until you are within the recommended shooting distance.
  - Separate the subject and the background.
  - Shoot after focusing on the subject.
- This function is not suited to underwater shooting. (DSC-TX10)
- You may not be able to set some functions or MENU items depending on the selected REC mode. For details, see “Functions not available in some REC modes” [Details] and “MENU items not available in some REC modes.” [Details]

**Related Topic**

- Defocus Effect
- Tracking focus
### Scene Selection

Allows you to shoot with preset settings according to the scene.

1. Set to the shooting mode.

2. **Scene Selection**

   - If you want to select the other Scene Selection mode, select from REC Mode.

<table>
<thead>
<tr>
<th><strong>Icon</strong></th>
<th><strong>Description</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Skin" /> <strong>(Soft Skin)</strong></td>
<td>Allows you to shoot faces for smoothness.</td>
</tr>
<tr>
<td><img src="image" alt="Snap" /> <strong>(Soft Snap)</strong></td>
<td>Allows you to shoot images with a softer atmosphere for portraits and flowers, etc.</td>
</tr>
<tr>
<td><img src="image" alt="Anti Motion Blur" /> <strong>(Anti Motion Blur)</strong></td>
<td>Allows you to shoot indoor shots without using the flash to reduce subject blur.</td>
</tr>
<tr>
<td><img src="image" alt="Landscape" /> <strong>(Landscape)</strong></td>
<td>Allows easy shooting of distant scenes by focusing in the distance. Shoots vivid blue sky and flora colors.</td>
</tr>
<tr>
<td>Feature</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>HDR (Backlight Correction HDR)</td>
<td>Allows you to shoot three images having different exposures to create a single image with a greater range of gradation. The camera combines the dark parts of an image taken with a bright exposure setting and the bright parts of an image taken with a dark exposure setting.</td>
</tr>
<tr>
<td>Twilight Portrait</td>
<td>Allows you to shoot sharp images of people with the night view in the background without compromising the atmosphere.</td>
</tr>
<tr>
<td>Twilight</td>
<td>Allows you to shoot night scenes at far distance without losing the dark atmosphere of the surroundings.</td>
</tr>
<tr>
<td>Hand-held Twilight</td>
<td>Allows you to shoot night scenes with less noise without using a tripod.</td>
</tr>
<tr>
<td>High Sensitivity</td>
<td>Allows you to shoot images without a flash under lowlight conditions, reducing blur.</td>
</tr>
<tr>
<td>ISO</td>
<td>Shifts to Macro mode, allowing you to shoot food arrangements in delicious and bright color.</td>
</tr>
<tr>
<td>Mode</td>
<td>Description</td>
</tr>
<tr>
<td>----------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Gourmet</td>
<td>Allows you to shoot images of your pet with the best settings.</td>
</tr>
<tr>
<td>Pet</td>
<td>Allows you to record the blue of the water clearly when shooting seaside or lakeside scenes.</td>
</tr>
<tr>
<td>Beach</td>
<td>Allows you to record clear images preventing sunken colors in snowy scenes or other places where the whole screen appears white.</td>
</tr>
<tr>
<td>Snow</td>
<td>Allows you to record fireworks in all their splendor.</td>
</tr>
<tr>
<td>Fireworks</td>
<td>Allows you to shoot underwater in natural colors.</td>
</tr>
</tbody>
</table>
| Underwater (DSC-TX10) | Allows you to capture fast moving subjects outdoors or in other bright places.  
  - The shutter speed becomes faster, so images shot in dark places become darker. |
Notes

- When you shoot images using (Twilight Portrait), (Twilight) or (Fireworks) mode, the shutter speed is slower and the images tend to blur. To prevent blurring, the use of a tripod is recommended.
- In Movie Mode, you can select some functions in scene selection. [Details]
- You may not be able to set some functions or MENU items depending on the selected REC mode. For details, see “Functions not available in some REC modes” [Details] and “MENU items not available in some REC modes.” [Details]
## Functions not available in some REC modes

In the table below, ✓ indicates a user-changeable function, while — indicates an unchangeable one. The icons below [Self-Timer] and [Flash] indicate the available modes.

<table>
<thead>
<tr>
<th>REC Mode</th>
<th>Scene Selection</th>
<th>Flash</th>
<th>Self-Timer</th>
<th>Close Focus</th>
<th>Face Detection</th>
<th>Tracking focus</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ (Intelligent Auto)</td>
<td>□ (Soft Skin)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>□+ (Superior Auto)</td>
<td>□+ (Soft Snap)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>□ (iSweep Panorama)</td>
<td>□ (Anti Motion Blur)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>□ (Underwater iSweep Panorama) (DSC-TX10)</td>
<td>□ (Background Defocus)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>□ (Program Auto)</td>
<td>□ (3D Still Image)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>□ (3D Sweep Panorama)</td>
<td>□ (3D Sweep Multi Angle)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>□ (Sweep Multi Angle)</td>
<td>□ (Backlight Correction HDR)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>□ (Twilight Portrait)</td>
<td>□ (Twilight )</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>□ (Twilight )</td>
<td>□ (Hand-held Twilight)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>□ (Hand-held Twilight)</td>
<td>□ (High Sensitivity)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>□ (High Sensitivity)</td>
<td>□ (Gourmet)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>□ (Gourmet)</td>
<td>□ (Pet)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>□ (Pet)</td>
<td>□ (Beach)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>□ (Beach)</td>
<td>□ (Snow)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>□ (Snow)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Fireworks)</td>
<td></td>
<td></td>
<td>—</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>(Underwater) (DSC-TX10)</td>
<td></td>
<td></td>
<td>✓</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>(Hi-Speed Shutter)</td>
<td></td>
<td></td>
<td>✓</td>
<td>—</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

* [Off] cannot be selected for [Face Detection].

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Tracking focus

The camera tracks the subject and adjusts focus automatically until you press the shutter button halfway down, even if the subject is moving (Tracking focus). Press the shutter button halfway down, the position of the subject, focus and exposure are locked.

Touch to cancel the focus.

Registering the priority face (Selected-face Memory)

If you use the tracking focus function while the Face Detection function is activated, you can select a face to be given priority and register that face with the camera. Even if the registered face disappears from the screen, when it shows up on the screen again, the camera focuses on the registered face.

- When a specified face is registered in the camera memory and you use the Smile Shutter function, the camera searches only for that face's smile.

Notes

- Tracking focus may fail to lock the focus, lose the subject or track different subject in the following situations:
  - The subject moves too quickly.
  - The subject is too small or too large.
  - The subject is the same color as the background.
  - Under low light conditions.
  - Under conditions where the brightness varies.
- When you use the Digital Zoom, the tracking focus function is not available.
- Tracking focus will automatically be canceled when the subject disappears from the screen or has failed to be tracked. However, if the target of the tracking focus is a specified face, the camera keeps tracking on that face even if the face disappears from the screen.
- This function cannot be used underwater shooting. (DSC-TX10)
- You may not be able to set some functions depending on the selected REC mode. For details, see “Functions not available in some REC modes.” [Details]
Viewing still images

1. Press the (Playback) button to switch to playback mode.

2. Select an image with .

Taking advantage of dragging operations
You can perform the following actions by dragging the screen during playback.

Displays the next / previous image

In Viewing mode, drag the screen to the right or left. To change images continuously, drag the screen to the right or left and keep touching the screen.

Viewing images taken with a different camera
This camera creates an Image Database File on the memory card for recording and playing images. If the camera detects images not registered in the Image Database File on the memory card, a registration screen with the message “Files found which were not recognized Import files” will be displayed. To view unregistered images, register them by selecting [OK].

- Use a sufficiently charged battery to register images. If a battery with a low charge is used to register images, it may not be possible to register all of the data or the data may be corrupted if the battery charge runs out.

Displays the vertical orientation image on full screen size. (DSC-TX100V)
If the camera is rotated, the horizontal or vertical orientation of the image is determined and the image being played back is automatically rotated.
Playback zoom

To save enlarged images
Enlarges the image being played back.

1. Press the \( \rightarrow \) (Playback) button to switch to playback mode.
2. Touch the area you want to enlarge.
   You can also enlarge the image by moving the zoom (W/T) lever to the T side.

3. Adjust the zoom scale and position.
   The image is further enlarged each time you touch the screen.

<table>
<thead>
<tr>
<th>Button/Operation method</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drag up / down / right / left</td>
<td>Changes the zoom position.</td>
</tr>
<tr>
<td>( / )</td>
<td>Changes the zoom scale.</td>
</tr>
<tr>
<td>( \times )</td>
<td>Cancels playback zoom.</td>
</tr>
</tbody>
</table>

To save enlarged images
You can save an enlarged image by using the trimming function.
Touch MENU \( \rightarrow \) [Retouch] \( \rightarrow \) [Trimming (Resize)].
Wide Zoom

In single-image mode, still images at a 4:3 aspect ratio are displayed over the entire screen. In this case, the top and bottom of the image will be slightly cropped.

1. Press the (Playback) button to switch to playback mode.

2. Touch (Wide Zoom).

3. To cancel Wide Zoom, touch (Wide Zoom) again.

Note
- Wide Zoom is not available for the following image files:
  - Movies
  - Panoramic images
  - Images displayed in a burst group
  - 16:9 images
Temporarily Rotated Display (DSC-TX10 / TX100 only)

This is used in the single-image mode to temporarily rotate an image and enlarge it on the screen.

1. Press the \( \text{\textsc{p}} \) (Playback) button to switch to playback mode.
2. Select a vertically oriented image \( \rightarrow \) touch \( \text{\textsc{f}} \) (Temporarily Rotated Display).
3. To cancel the display, touch \( \text{\textsc{f}} \) (Temporarily Rotated Display) again.

Notes
- Temporarily Rotated Display is not available for the following images:
  - Movies
  - Panoramic images
  - Horizontal orientation images
- Touching \( \text{\textsc{f}} \) cancels Temporarily Rotated Display.
Viewing burst images

- Tilt playback
- Unfold

You can select the playback method for continuous (burst) shots when [View Mode] is set to [Date View] and [Display Burst Group] is set to [Display Main Image Only]. [View Mode] is set to [Date View] and [Display Burst Group] is set to [Display Main Image Only] in the default setting.

1. Press the (Playback) button to switch to playback mode.
2. Select the burst images with ◀️/▶️.

3. Touch the desired playback button according to the playback mode.

<table>
<thead>
<tr>
<th>Button/Operation</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Groups burst images, then plays back the main images only. The display switches between single image display and thumbnail image display each time you touch the screen.</td>
<td></td>
</tr>
<tr>
<td>You can view the burst images as a movie by tilting the camera to the right or left.</td>
<td></td>
</tr>
</tbody>
</table>

- **Tilt playback**

The burst shots are played back smoothly as a movie.

1. Touch ◀️
2. Tilt the camera to the right or left, with the center of the camera as the axis.
3. To exit Tilt playback, touch the screen.

**Unfold**

If you touch 📸, only the main image is displayed. You can display a line-up of images by following the procedure below.

1. Display the main image in playback mode, then touch 📸. The images are displayed in the index.

![Image of index with thumbnail images]

When images are displayed in an index, 📸 is displayed on the main image.

2. Touch ➤/◀ to display each image in a burst group.
   - You can also select an image to be displayed by touching the thumbnail image at the bottom of the screen.

3. The display switches between single image display and thumbnail image display each time you touch the screen.

4. To cancel the display, touch ❌.

**Related Topic**

- View Mode
- Display Burst Group
Viewing movies

Making still images during movie playback (DSC-TX100 / TX100V)

1. Press the (Playback) button to switch to playback mode.
2. Select a movie with ► / ◄.

3. Touch on the screen.
   When you touch the screen during playback, operation buttons are displayed.

On the movie viewing screen

When you touch the screen during playback, the playback bar appears, indicating the playback position of a movie and operation buttons are displayed.

The icon displayed may vary depending on image size and quality.

<table>
<thead>
<tr>
<th>Button</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>►</td>
<td>Playback</td>
</tr>
<tr>
<td>■</td>
<td>Pause</td>
</tr>
<tr>
<td>►►</td>
<td>Fast forward</td>
</tr>
<tr>
<td>◄◄</td>
<td>Fast rewind</td>
</tr>
<tr>
<td>◄►</td>
<td>Slow playback</td>
</tr>
<tr>
<td>◄</td>
<td>Slow rewind playback</td>
</tr>
<tr>
<td>▶▶</td>
<td>Chapter advance</td>
</tr>
<tr>
<td>‹‹</td>
<td>Chapter rewind</td>
</tr>
<tr>
<td></td>
<td>Frame advance</td>
</tr>
</tbody>
</table>
### Notes
- The buttons on the control panel may be different depending on the replay status.
- The screen changes to the next / previous image when you touch the Chapter advance / Chapter rewind button in Date View setting.

### Making still images during movie playback (DSC-TX100 / TX100V)

During movie playback, you can make the still image from the movie situation to touch the ✂.

When the recording is finished, movie playback is paused.

#### To display only movies on the index screen
You can view only movie thumbnails on the index screen by touching MENU → (View Mode) → (Folder view (MP4)) or (AVCHD (AVCHD view)).

**DSC-TX10:**
- (Folder view (MP4)): Displays MP4-format movie thumbnails on the index screen.
- (AVCHD (AVCHD view)): Displays AVCHD-format movie thumbnails on the index screen.

**DSC-TX100 / TX100V:**
- (Folder view (MP4)): Displays MP4-format movie thumbnails on the index screen.
- (AVCHD (AVCHD view)):
  - Recorded with [Movie format] set to [AVCHD 50i/50p] or [AVCHD 60i/60p]. [Details]
  - When a movie file is played back to the end, the camera automatically starts playing back the next movie file.

#### Note
- You may not be able to play back some movies using other cameras.

### Related Topic
View Mode
Scrolling the panorama images for display

You can scroll panorama images by touching ➤ while panorama images are being displayed. In playing back, touch the screen to be displayed the operation buttons.

A: Shows the displayed area of the whole panorama image

<table>
<thead>
<tr>
<th>Button/Operation</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Touch ➤</td>
<td>Starts scrolling playback</td>
</tr>
<tr>
<td>Drag up / down / right / left</td>
<td>Scrolls image</td>
</tr>
</tbody>
</table>

- Panorama images can also be played back using the supplied software "PMB". [Details]
- Panorama images recorded using another camera may not scroll correctly when played.

Note
- A panorama image shot with Panorama Image Size set to [High Resolution] takes more time to scroll than a normal iSweep Panorama image (of other image sizes).

Related Topic
Still Image Size / Panorama Image Size
**3D Functions**

The camera is compatible with 3D functions. The following three modes are installed on this camera.

Images recorded using 3D functions can be played back stereoscopically on a 3D TV.

The basic differences among the three 3D modes are described here. For details on each mode, click [Details].

- 3D Still Image [Details]
- 3D Sweep Panorama [Details]
- Sweep Multi Angle [Details]

* The image on the TV screen is only for reference.

| 3D Still Image | Aspect ratio 4:3 or 16:9 (Same aspect ratio as a standard still image.) | Shooting mode Still image | Playback method on this camera Same as a standard still image. | Playback method on a 3D TV Stereoscopic |
| 3D Sweep Panorama | Panorama | Panorama | Same as a standard still image. | Stereoscopic |
| Sweep Multi Angle | Panorama | Panorama | Tilt the camera to the right or left to view a stereoscopic image. | Stereoscopic |

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### File name of the 3D image

A 3D image consists of both JPEG and MPO files. If you import images shot using 3D functions into a computer, the image data is stored on the computer as follows.

<table>
<thead>
<tr>
<th>File name on the computer</th>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>3D Still Image</strong></td>
<td></td>
</tr>
<tr>
<td>DSC0△△△</td>
<td></td>
</tr>
<tr>
<td>.JPG</td>
<td></td>
</tr>
<tr>
<td>DSC0△△△</td>
<td></td>
</tr>
<tr>
<td>.MPO</td>
<td></td>
</tr>
<tr>
<td>For playing back 3D images on a 3D TV</td>
<td></td>
</tr>
</tbody>
</table>

| **3D Sweep Panorama**     |       |
| DSC0△△                   |       |
| △△.JPG                   |       |
| DSC0△△                   |       |
| △△.MPO                   |       |
| For playing back 3D images on a 3D TV |

| **Sweep Multi Angle**     |       |
| DSC0〇〇                   |       |
| 〇〇.JPG                   |       |
| DSC0〇〇                   |       |
| 〇〇.MPO                   |       |
| For playing back 3D images on a 3D TV |

| DSC0□□                   |       |
| □□.JPG                   |       |
| DSC0□□                   |       |
| □□.MPO                   |       |
| Shoots an image that can be played back as a stereoscopic image by tilting the camera to the right or left, and an image that can be played back on a 3D TV. |

- If you shoot 3D images in [Sweep Multi Angle] mode, JPEG files and MPO files are stored on the computer for playing back on the camera and a 3D TV, respectively.
- If you delete either a JPEG file or an MPO file comprising a 3D image, that 3D image may not be played back successfully.
3D Still Image

The camera shoots an image that can be played back as 3D on a 3D TV.

1.  

2.  Press the shutter button.

Tips for shooting a 3D image

Approach a subject with the subject and background far apart, as shown in the illustration. The 3D effect may not work effectively when the scene is too dark, the subject is moving or you moved the camera after setting the AE/AF lock. If you shoot the image in the dark place, noise may be highly visible.

Notes

- The available image size is [16M] or [16:9 (12M)].
- This function is not suited to underwater shooting. (DSC-TX10)
3D Sweep Panorama

Multiple images are shot while the camera is moving, and these images are compiled into a 3D image. The recorded image can be played back on a 3D TV.

1. 

2. Align the camera with the end of the subject to be shot and press the shutter button.

- A black, translucent portion (A) appears before shooting. That part will not be recorded.
- In (3D Sweep Panorama), you can change the shooting direction by touching (B).

3. Pan the camera to the end of the guide (C), following the indication on the screen.

Tips for shooting in 3D Sweep Panorama mode

To take 3D images correctly, sweep the camera slowly. (Aim for a 5-second semicircle.) If you are sweeping too quickly or too slowly, a message will be displayed on the screen. We recommend that you practice it several times before shooting. Subjects at rest are best suited for 3D shots.

- Determine the scene and press the shutter button halfway, so that you can lock the focus, exposure and white balance. Then, press the shutter button fully down and pan the camera.
Notes

- 3D shooting is not suitable for the following situations:
  - When there is a large subject
  - Moving subjects
  - When the main subject is too close to the camera
  - Images with little contrast, such as the sky, a sandy beach, or lawn
- 3D images consist of a JPEG file and an MPO file. If either file is deleted on your computer, the camera may not operate correctly.
- If you cannot pan the camera across the entire subject within the given time, a gray area occurs in the composite image. If this happens, move the camera faster to record a full 3D image.
- Since several images are stitched together, the stitched part will not be recorded smoothly.
- Under low light conditions, the images may be blurred. It is recommended that you shoot images in bright outside light.
- Under lights that flicker, such as fluorescent lights, the 3D shot may not be successful.
- If the entire angle of view of the 3D shot and the angle of view when the AE/AF was locked are extremely different in brightness, color or focus, the shot will not be successful. If this happens, change the location of the AE/AF lock and try again.
- 3D shooting may be canceled in the following situations:
  - You pan the camera too quickly or too slowly.
  - There is too much camera shake.
- This function is not suited to underwater shooting. (DSC-TX10)

Related Topic

Viewing 3D images on a 3D TV
Sweep Multi Angle

As you sweep the camera, the camera shoots multiple images, then compiles them into one stereoscopic image. It shoots an image that can be played back as a stereoscopic image by tilting the camera to the right or left, and an image that can be played back on a 3D TV.

1. (REC Mode) → (3D Shooting) → (Sweep Multi Angle)

2. Align the camera with the end of the subject to be shot and press the shutter button.

3. Pan the camera to the end of the guide (B), following the indication on the screen.

- A black, translucent portion (A) appears before shooting. That part will not be recorded.

**Shooting range in Sweep Multi Angle mode**

Sweep the camera approximately 45 degrees to the left and right of the subject you want to focus on.

**Notes**

- In Sweep Multi Angle mode, you can select only the [16:9(2M)] panoramic image size.
- Refer also to the tips for 3D Sweep Panorama. [Details]
Related Topic
Viewing images shot in Sweep Multi Angle mode stereoscopically
Viewing 3D images on a 3D TV
Viewing images shot in Sweep Multi Angle mode stereoscopically

You can view stereoscopic images shot in [Sweep Multi Angle] mode by tilting the camera to the right or left.

1. Press the (Playback) button to switch to playback mode.
2. Select an image shot in (Sweep Multi Angle) mode with / .
3. Touch .
4. Tilt the camera to the right or left.
5. Touch the screen to stop playback.

Tips for playing back stereoscopically
To view images shot in Sweep Multi Angle mode stereoscopically, tilt the camera to the right or left as illustrated, keeping the camera horizontal.

Note
- 3D images shot in [3D Still Image], [3D Sweep Panorama] mode cannot be played back in 3D on the camera.
Viewing 3D images on a 3D TV

You can view 3D images recorded on the camera in 3D format by connecting the camera to a 3D TV using an HDMI Cable (sold separately). Refer also to the operating instructions supplied with the TV.

1. Turn off both the camera and the TV.
2. Connect the camera to the TV using an HDMI Cable (sold separately).

**DSC-TX10**

![3D TV and camera connection diagram for DSC-TX10](image)

- **A**: HDMI jack
- **B**: HDMI Cable

3. Turn on the TV and set the input.
4. Press the (Playback) button to turn on the camera.
5. Touch to select images shot using (3D Shooting) mode.
6. Touch (3D Viewing).

**DSC-TX100 / TX100V**

![3D TV and camera connection diagram for DSC-TX100/TX100V](image)
7. Touch [OK].
Images shot with the camera appear on the TV.

8. Touch ◀/▶ to select the images and select the desired mode.

<table>
<thead>
<tr>
<th>Scroll Playback</th>
<th>Plays back scrolling images shot in 3D Sweep Panorama mode. Touch ◀/▶ to play back/pause and ◀ / ◀ to scroll the images.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panorama image.</td>
<td></td>
</tr>
</tbody>
</table>

- When playing back a 3D image shot in [16:9] image size, scrolling playback is not available.

<table>
<thead>
<tr>
<th>Continuous Playback</th>
<th>Continuously plays back only 3D images. Touch ◀/▶ to next / previous to change the images.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Exit 3D Viewing</th>
<th>Ends 3D playback.</th>
</tr>
</thead>
</table>

- You can change the zoom scale using the W/T (zoom) lever.

**Notes**
- When you select 3D Viewing mode, only 3D images are displayed.
- If you play back an image shot in [3D Sweep Panorama] mode with the shooting direction set to up or down, the image is played back horizontally on the TV.
- Do not connect the camera and equipment to be connected using output terminals. When the camera and equipment are connected using output terminals, no video and sound are produced. Such a connection can also cause trouble of the camera and/or connected equipment.
- This function may not work properly with some TVs. For example, you may not be able to view a video on your TV, output in 3D mode or hear sound from the TV.
- Use an HDMI Cable with the HDMI logo.
- When connecting the camera to a TV, use an HDMI Cable that can be connected to the mini jack on the camera end and to the TV jack.
- Recording may automatically stop to protect the camera after a period of time when you shoot movies in the condition where the camera and TV are connected by an HDMI Cable (sold separately).

**Related Topic**
3D Viewing
Using MENU items (Shooting)

You can select the various shooting functions easily from the MENU button.

1. Lower the lens cover to switch to shooting mode.
2. Touch the MENU icon to display the MENU screen.
   The 4 menu items usually displayed under MENU will not appear on the MENU screen.
3. Touch MENU → desired mode
Movie shooting scene

Allows you to shoot with preset settings according to the scene when the camera is in Movie Mode.

1. (REC Mode) → (Movie Mode)

2. MENU → (Movie shooting scene) → desired mode

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

On Scene Recognition

Scene Recognition operates in Movie shooting scene. This function lets the camera automatically recognize the shooting conditions and shoot the image.

In Scene Recognition, the position of an icon displayed on the screen is different depending on whether the camera recognizes a scene or condition.

If the camera recognizes a scene, icons and guides such as (Portrait), (Infant), (Twilight Portrait), (Twilight), (Backlight Portrait), (Backlight), (Landscape), (Macro), (Close Focus), (Spotlight) or (Low Light) are displayed on the first line. If the camera recognizes a condition, icons such as (Tripod) or (Move) are displayed on the second line. The camera may recognize both the scene and condition, or just one.
For details, see “Scene Recognition.” [Details]
Easy Mode

On Scene Recognition

Shooting functions available in Easy Mode (Shooting)

Allows you to shoot still images using the minimum necessary functions. The text size increases and indicators become easier to see.

1. MENU → EASY (Easy Mode) → [OK]

2. Shoot with the shutter button.

   - To end Easy Mode, touch MENU → [Exit Easy Mode]

Notes

- The battery power may decrease faster because the screen brightness increases automatically.
- The playback mode also changes to [Easy Mode].

On Scene Recognition

Scene Recognition operates in Easy Mode. This function lets the camera automatically recognize the shooting conditions and shoot the image.

In Scene Recognition, the position of an icon displayed on the screen is different depending on whether the camera recognizes a scene or condition.

If the camera recognizes a scene, icons such as (Portrait), (Infant), (Twilight Portrait), (Twilight), (Backlight Portrait), (Backlight), (Landscape), (Macro), (Close Focus), (Spotlight) or (Low Light) are displayed on the first line. If the camera recognizes a condition, icons such as (Tripod) or (Move) are displayed on the second line. The camera may recognize both the scene and condition, or just one.

For details, see “Scene Recognition.” [Details]

Shooting functions available in Easy Mode (Shooting)
| MOVIE button (DSC-TX100 / TX100V) | Touch \( \text{Movie} \). |
| Flash | Touch \( \text{Touch} \). |
| Still Image Size | \( \text{MENU} \rightarrow \text{[Still Image Size]} \rightarrow \text{desired mode, select between [Large] or [Small] size.} \) |
| Self-Timer | \( \text{MENU} \rightarrow \text{[Self-Timer]} \rightarrow \text{select between [10sec] or [Off] mode.} \) |
| GPS setting (DSC-TX100V) | \( \text{MENU} \rightarrow \text{[GPS setting]} \rightarrow \text{select between [On] or [Off] mode.} \) |
| Exit Easy Mode | To end Easy Mode, touch \( \text{MENU} \rightarrow \text{[Exit Easy Mode]} \rightarrow [\text{OK}]. \) |

**Related Topic**

**Scene Recognition**
Scene Selection

Allows you to shoot with preset settings according to the scene.

**Still images**
1. Set to the shooting mode.
2.  
3. (REC Mode) → SCN(Scene Selection) → desired mode.

**Movie**
1.  
2. MENU → i (Movie shooting scene) → SCN(Scene Selection) → desired mode

* Scene Selection modes with an * mark are not available for [Scene Selection] in [Movie shooting scene].

<table>
<thead>
<tr>
<th>(Soft Skin)*</th>
<th>Allows you to shoot faces for smoothness.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Allows you to shoot images with a softer atmosphere for portraits and flowers, etc.</td>
</tr>
<tr>
<td>Feature</td>
<td>Description</td>
</tr>
<tr>
<td>------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Soft Snap (Anti Motion Blur)*</td>
<td>Allows you to shoot indoor shots without using the flash to reduce subject blur.</td>
</tr>
<tr>
<td>Landscape</td>
<td>Allows easy shooting of distant scenes by focusing in the distance. Shoots vivid blue sky and flora colors.</td>
</tr>
<tr>
<td>Backlight Correction HDR)*</td>
<td>Allows you to shoot three images having different exposures to create a single image with a greater range of gradation. The camera combines the dark parts of an image taken with a bright exposure setting and the bright parts of an image taken with a dark exposure setting.</td>
</tr>
<tr>
<td>Twilight Portrait)*</td>
<td>Allows you to shoot sharp images of people with the night view in the background without compromising the atmosphere.</td>
</tr>
<tr>
<td>Twilight )</td>
<td>Allows you to shoot night scenes at far distance without losing the dark atmosphere of the surroundings.</td>
</tr>
<tr>
<td>Hand-</td>
<td>Allows you to shoot night scenes with less noise without using a tripod.</td>
</tr>
<tr>
<td>Setting</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Twilight)</strong>†</td>
<td>For still images, allows you to shoot images without a flash under lowlight conditions, reducing blur. For movies, allows you to record low light scenes brighter.</td>
</tr>
<tr>
<td><strong>ISO (High Sensitivity)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>(Gourmet)</strong>†</td>
<td>Shifts to Macro mode, allowing you to shoot food arrangements in delicious and bright color.</td>
</tr>
<tr>
<td><strong>(Pet)</strong>†</td>
<td>Allows you to shoot images of your pet with the best settings.</td>
</tr>
<tr>
<td><strong>(Beach)</strong></td>
<td>Allows you to record the blue of the water clearly when shooting seaside or lakeside scenes.</td>
</tr>
<tr>
<td><strong>(Snow)</strong></td>
<td>Allows you to record clear images preventing sunken colors in snowy scenes or other places where the whole screen appears white.</td>
</tr>
<tr>
<td><strong>(Fireworks)</strong></td>
<td>Allows you to record fireworks in all their splendor.</td>
</tr>
</tbody>
</table>
### Underwater (DSC-TX10)
Allows you to shoot underwater in natural colors.

### Hi-Speed Shutter*
Allows you to capture fast moving subjects outdoors or in other bright places.
- The shutter speed becomes faster, so images shot in dark places become darker.

### Notes
- When you shoot images using 🌃 (Twilight Portrait), 🌙 (Twilight) or 🎆 (Fireworks) mode, the shutter speed is slower and the images tend to blur. To prevent blurring, the use of a tripod is recommended.
- You may not be able to set some functions or MENU items depending on the selected REC mode. For details, see “Functions not available in some REC modes” [Details] and “MENU items not available in some REC modes.” [Details]
Movie button (DSC-TX100 / TX100V only)

You can quickly start shooting movies from all REC modes.

1. Touch  

2. To stop recording, touch  

**Note**
- You may not be able to set some functions or MENU items depending on the selected REC mode. For details, see “MENU items not available in some REC modes.” [Details]

**Related Topic**
- Movie Quality / Movie Size
- Movie format
Flash

1. (Flash) → desired mode

If the button is not displayed on the left side of the screen, touch MENU.

- (Auto) Flashes when shooting in low light or backlit conditions.
- (On) Flash always operates.
- (Slow Synchro) Flash always operates. The shutter speed is slow in a dark place to clearly shoot the background that is out of flash light.
- (Off) Flash does not operate.

When the “White circular spots” appears in flash photos

This is caused by particles dust, pollen, mist, floating object underwater (DSC-TX10), etc. floating close to the lens. When they are accentuated by the camera’s flash, they appear as white circular spots.

How can the “White circular spots” be reduced?

- Light the room and shoot the subject without a flash.
- Select (Anti Motion Blur) or (High Sensitivity) mode in Scene Selection. ([Flash] is set to [Off]).

Notes

- The flash strobos twice. The first flash adjusts the light amount.
- While charging the flash, is displayed.
- You cannot use the flash during burst shooting.
- You may not be able to set some functions or MENU items depending on the selected REC mode. For details, see “MENU items not available in some REC modes.” [Details]
Self-Timer

▼ Automatic shooting with Self-portrait timer

1. Off (Self-Timer) → desired mode

If the button is not displayed on the left side of the screen, touch MENU.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>Does not use the self-timer.</td>
</tr>
<tr>
<td>10sec</td>
<td>Sets the self-timer to a 10-second delay. When you press the shutter button,</td>
</tr>
<tr>
<td></td>
<td>the self-timer lamp flashes and a beep sounds until the shutter operates. To</td>
</tr>
<tr>
<td></td>
<td>cancel, touch ô.</td>
</tr>
<tr>
<td>2sec</td>
<td>Sets the self-timer to a 2-second delay.</td>
</tr>
<tr>
<td>Self-portrait One Person</td>
<td>Sets the self-timer to Self-portrait timer. When the camera detects the specified number of faces, a beep sounds, and the shutter operates 2 seconds later.</td>
</tr>
<tr>
<td>Self-portrait Two People</td>
<td></td>
</tr>
</tbody>
</table>

Hints for preventing blur

If your hands or body moves while holding the camera and pressing the shutter button, “Camera shake” occurs.

Camera shake occurs frequently under low-light or slow shutter speed conditions, such as those encountered in Twilight Portrait or Twilight mode. In such a case, shoot with the below tips in mind.

- Shoot with a 2-second delay self-timer and stabilize the camera by holding your arms firmly at your side after pressing the shutter button.
- Use a tripod or place the camera on a flat surface to hold the camera steady.

Note

- You may not be able to set some functions or MENU items depending on the selected REC.
Automatic shooting with Self-portrait timer

Point the lens at yourself so your face is reflected in the screen. The camera detects the subjects, and then the shutter operates. The camera determines the optimal composition and prevents faces from being cut out of the screen. Do not move your camera after the beep sounds.

- You can also shoot an image by pressing the shutter button during this operation.
Defocus Effect

Sets the level of background defocus effect when shooting in Background Defocus mode.

1. REC Mode → Background Defocus
2. MENU → Defocus Effect → desired mode

- Low: Adds a slight Background Defocus effect.
- Mid: Adds an average Background Defocus effect.
- High: Adds a strong Background Defocus effect.

Related Topic

Background Defocus
Still Image Size / Panorama Image Size

- Image size when shooting still images
- 3D Still Image Size
- Image size in Easy Mode
- Image size when shooting Sweep Panorama / Underwater iSweep Panorama (DSC-TX10)

The image size determines the size of the image file that is recorded when you take an image. The larger the image size, the more detail will be reproduced when the image is printed on large-format paper. The smaller the image size, the more images can be recorded.

💡 On “image quality” and “image size”
A digital image is made up of a collection of small dots called pixels. If it contains a large number of pixels (A), the image becomes large, it takes up more memory, and the image is displayed in fine detail. “Image size” is shown by the number of pixels. Although you cannot see the differences on the screen of the camera, the fine detail and data processing time differ when the image is printed or displayed on a computer screen.

1. Image size: 16M
   4608 pixels × 3456 pixels = 15,925,248 pixels

2. Image size: VGA
   640 pixels × 480 pixels = 307,200 pixels

Many pixels (Fine image quality and large file size)
### Image size when shooting still images

1. **Image Size** → desired size
   
   When the button is not displayed on the left of the screen, touch MENU to set.

<table>
<thead>
<tr>
<th>Image size</th>
<th>Usage guidelines</th>
<th>Displaying on the screen</th>
</tr>
</thead>
<tbody>
<tr>
<td>(4608×3456)</td>
<td>For prints up to A3+ size</td>
<td>Images are displayed in 4:3 aspect ratio.</td>
</tr>
<tr>
<td>(3648×2736)</td>
<td>For prints up to A3 size</td>
<td></td>
</tr>
<tr>
<td>(2592×1944)</td>
<td>For prints from 10×15 cm up to A4 size</td>
<td></td>
</tr>
<tr>
<td>(640×480)</td>
<td>For e-mail attachments</td>
<td></td>
</tr>
<tr>
<td>(4608×2592)</td>
<td>For viewing on a high-definition TV and printing up to A3 size</td>
<td></td>
</tr>
<tr>
<td>(1920×1080)</td>
<td>For viewing on a high-definition TV</td>
<td></td>
</tr>
</tbody>
</table>

### 3D Still Image Size

1. **MENU** → **Image Size** → desired size

![Image of cornfield with blue sky]
Image size in Easy Mode

1. MENU → (Still Image Size) → desired size

<table>
<thead>
<tr>
<th>Large</th>
<th>Shoots images in [16M] size.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small</td>
<td>Shoots images in [5M] size.</td>
</tr>
</tbody>
</table>

Note

- When you print still images recorded at a 16:9 aspect ratio or panorama images, both edges may be cut off.

Image size when shooting Sweep Panorama / Underwater iSweep Panorama (DSC-TX10)

1. MENU → (Panorama Image Size) → desired size

When the button is not displayed on the left of the screen, touch MENU to set.

<table>
<thead>
<tr>
<th>(16:9)</th>
<th>(Horizontal: 1920 × 1080) [16:9] is available only for 3D shooting.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Standard)</td>
<td>(Horizontal: 4912 × 1080) (Vertical: 3424 × 1920) Shoots images using standard size.</td>
</tr>
<tr>
<td>(Wide)</td>
<td>(Horizontal: 7152 × 1080) (Vertical: 4912 × 1920) Shoots images using wide size.</td>
</tr>
<tr>
<td>(High Resolution)</td>
<td>(Horizontal: 10480 × 4096) Shoots high-resolution panorama in 43M.</td>
</tr>
</tbody>
</table>

Note

- If you cannot print panoramic images recorded in [High Resolution] size due to the large size, use the resize function in the supplied software “PMB”. “PMB” allows you to resize panoramic images recorded in [High Resolution] to 50%.
Movie Quality / Movie Size

The larger the size of the movie image, the higher the image quality. The higher the amount of data used per second (average bit-rate), the higher the image quality. Select a movie recording format by pressing MENU → (Settings) → (Shooting Settings) → [Movie format] in shooting mode. [Details]

DSC-TX10
You can set Movie Quality in AVCHD format, and set Movie Size in MP4 format.

Movie quality (recording format: AVCHD)
1. MENU → (Movie Quality) → desired mode

Set using the buttons displayed on the left of the screen depending on the REC mode.

Movies shot with this camera are recorded in AVCHD format, at approximately 60 fields/sec (1080 60i-compatible devices) or 50 fields/sec (1080 50i-compatible devices), in interlaced mode, with Dolby Digital audio.

<table>
<thead>
<tr>
<th>Movie quality</th>
<th>Average bit-rate</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[FX] (AVC HD 24M)</td>
<td>24 Mbps</td>
<td>Shoots at a highest picture quality of 1920×1080 (50i / 60i) size.</td>
</tr>
<tr>
<td>[FH] (AVC HD 17M)</td>
<td>17 Mbps</td>
<td>Shoots at a high picture quality of 1920×1080 (50i / 60i) size.</td>
</tr>
<tr>
<td>[HQ] (AVC HD 9M)</td>
<td>9 Mbps</td>
<td>Shoots at a standard picture quality of 1440×1080 (50i / 60i) size.</td>
</tr>
</tbody>
</table>

DSC-TX100 / TX100V
You can set Movie Quality in [AVCHD 60i/60p] (1080 60i-compatible devices) or [AVCHD 50i/50p] (1080 50i-compatible devices) movie, and set Movie Size in MP4 format.

Movie quality (recording format: [AVCHD 60i/60p] (1080 60i-compatible devices) / [AVCHD 50i/50p] (1080 50i-compatible devices))
1. MENU → (Movie Quality) → desired mode

Set using the buttons displayed on the left of the screen depending on the REC mode.
Movies shot with this camera are recorded in AVCHD format, at approximately 60 fields/sec (1080 60i-compatible devices) or 50 fields/sec (1080 50i-compatible devices), in interlaced mode, with Dolby Digital audio or AVCHD format, at approximately 60 fields/sec (1080 60i-compatible devices) or 50 fields/sec (1080 50i-compatible devices), in progressive mode, with Dolby Digital audio.

<table>
<thead>
<tr>
<th>Movie quality</th>
<th>Average bit-rate</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[AVC HD 28M (PS)]</td>
<td>28 Mbps</td>
<td>Shoots at a highest picture quality of 1920x1080 (50p / 60p) size.</td>
</tr>
<tr>
<td>[AVC HD 24M (FX)]</td>
<td>24 Mbps</td>
<td>Shoots at a highest picture quality of 1920x1080 (50i / 60i) size.</td>
</tr>
<tr>
<td>[AVC HD 17M (FH)]</td>
<td>17 Mbps</td>
<td>Shoots at a standard picture quality of 1920x1080 (50i / 60i) size.</td>
</tr>
<tr>
<td>[AVC HD 9M (HQ)]</td>
<td>9 Mbps</td>
<td>Shoots at a standard picture quality of 1440x1080 (50i / 60i) size.</td>
</tr>
</tbody>
</table>

**Movie image size (recording format: MP4)**

1. **MENU** → **Movie Size** → desired size
   
   Set using the buttons displayed on the left of the screen depending on the REC mode.

Movies shot with this camera are recorded in MPEG-4 format, at approximately 30 frames/sec (1080 60i-compatible devices) or approximately 25 frames/sec (1080 50i-compatible devices), in progressive mode, with AAC audio, mp4 format.

<table>
<thead>
<tr>
<th>Movie image size</th>
<th>Average bit-rate</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[MP4 12M]</td>
<td>12 Mbps</td>
<td>Shoots at 1440x1080 size</td>
</tr>
<tr>
<td>[MP4 6M]</td>
<td>6 Mbps</td>
<td>Shoots at 1280x720 size</td>
</tr>
<tr>
<td>[MP4 3M]</td>
<td>3 Mbps</td>
<td>Shoots at VGA size</td>
</tr>
</tbody>
</table>

**Notes**

- A telephoto image is produced when [MP4 3M] image size is selected.
- Movies recorded with Movie Mode set to [AVC HD 28M (PS)] (DSC-TX100 / TX100V) cannot be saved to a disc without changing the original quality. Convert the movie using “PMB” and save it to the disc.
- Movies recorded with Movie Mode set to [AVC HD 24M (FX)] cannot be saved to a DVD disc or as an AVCHD disc. Save them to a Blu-ray disc.

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Burst Settings

The camera shoots up to 10 continuous frames in one burst when you hold down the shutter button.

1. **MENU** ➔ (Burst Settings) ➔ desired mode

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Off)</td>
<td>Records a single image.</td>
</tr>
<tr>
<td>(High)</td>
<td>Shoots up to 10 images per second in succession.</td>
</tr>
<tr>
<td>(Low)</td>
<td>Shoots up to 2 images per second in succession.</td>
</tr>
</tbody>
</table>

**Notes**

- [Flash] is set to [Off].
- When recording with the self-timer, a series of up to 10 images is recorded.
- The recording interval becomes longer, depending on the setting for the image size.
- [Focus], [White Balance], and [EV] are adjusted for the first image, and these settings are also used for the other images.
- [VGA] image size will be set while recording on internal memory.
- When the battery level is low, or internal memory or memory card is full, the burst stops.
- In slow shutter speed conditions, the burst shots per second may be decreased.
- You may not be able to set some functions or MENU items depending on the selected REC mode. For details, see “MENU items not available in some REC modes.” [Details]
Macro

Use this setting to capture beautiful close-up images of small subjects such as insects or flowers.

1. MENU → (Macro) → desired mode.

Depending on the REC mode, this is set using buttons displayed on the left side of the screen.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Auto)</td>
<td>The camera adjusts the focus automatically from distant subjects to close-up.</td>
</tr>
<tr>
<td>(Close Focus)</td>
<td>Use this mode to shoot at close distances. Locked to the W side: Approximately 1 cm to 20 cm (13/32 inches to 7 7/8 inches)</td>
</tr>
</tbody>
</table>

Notes

- Note the following points when using the Close Focus mode.
  - You cannot use the Scene Recognition or Face Detection functions.
  - This mode is cancelled if you turn off the power or switch the REC mode to another one.
  - The flash mode settings you can use in this mode are [On] or [Off] only.
  - The focus speed becomes slower.
- You may not be able to set some functions or MENU items depending on the selected REC mode. For details, see “MENU items not available in some REC modes.” [Details]
EV

You can adjust the exposure manually in 1/3 EV steps in a range of –2.0 EV to +2.0 EV.

1. **MENU ➔** (EV)
   Depending on the REC mode, this is set using buttons displayed on the left side of the screen.

2. Touch ➔ / ➔ to adjust exposure ➔ [OK].
   You can also adjust the exposure by touching of the adjustment bar and dragging to the right or left.

**Adjusting the exposure for better looking images**

- **A**: Overexposure (too much light)
- **B**: Correct exposure
- **C**: Underexposure (not enough light)

**Notes**
- If you shoot a subject in extremely bright or dark conditions, or when you use the flash, the exposure adjustment may not be effective.
- You may not be able to set some MENU items depending on the selected REC mode. For details, see “MENU items not available in some REC modes.” [Details]
ISO

Adjusts the luminous sensitivity when the camera is set to Program Auto or (Underwater) (DSC-TX10) is selected in Scene Selection.

1. **MENU** → **ISO** → desired mode

<table>
<thead>
<tr>
<th>ISO sensitivity</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>(Auto)</strong></td>
<td>Sets the ISO sensitivity automatically.</td>
</tr>
<tr>
<td><strong>ISO 100</strong></td>
<td>You can reduce image blurring in dark locations or with moving subjects by increasing the ISO sensitivity (select a larger number).</td>
</tr>
</tbody>
</table>

**Adjusting ISO Sensitivity (Recommended Exposure Index)**

ISO sensitivity is a speed rating for recording media that incorporates an image sensor that receives light. Even when the exposure is the same, images differ depending on the ISO sensitivity.

**High ISO sensitivity**

Records a bright image even in dark locations while increasing shutter speed to reduce blur. However, the image tends to become noisy.

**Low ISO sensitivity**
Records a smoother image. However, when the exposure is insufficient, the image may become darker.

**Hints for preventing blur**

Even though the camera is steady, the subject moves during the exposure and is captured blurred when the shutter button is pressed. Camera shake is reduced automatically, however, the function does not effectively reduce subject blur. Subject blur occurs frequently under low-light or slow shutter speed conditions. In such case, shoot with the below tips in mind.

- Select a higher ISO sensitivity so that the shutter speed is faster.
- Select **ISO (High Sensitivity)** mode in Scene Selection.

**Note**

- You may not be able to set some MENU items depending on the selected REC mode. For details, see “MENU items not available in some REC modes.” [Details]
White Balance

To capture the basic white color in One Push Set mode
Adjusts color tones according to the surrounding light conditions. Use this function if image color appears unnatural.

1. MENU → [White Balance]
   Depending on the REC mode, this is set using buttons displayed on the left side of the screen.

2. Desired mode → [OK].

<table>
<thead>
<tr>
<th>MODE</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Auto)</td>
<td>Adjusts the white balance automatically so that the colors appear natural.</td>
</tr>
<tr>
<td>(Daylight)</td>
<td>Adjusts for outdoors conditions on a fine day, evening views, night scenes, neon signs, fireworks, etc.</td>
</tr>
<tr>
<td>(Cloudy)</td>
<td>Adjusts for a cloudy sky or a shady location.</td>
</tr>
<tr>
<td>(Fluorescent White Balance 1)</td>
<td>[Fluorescent White Balance 1]: Adjusts for white fluorescent lighting.</td>
</tr>
<tr>
<td>(Fluorescent White Balance 2)</td>
<td>[Fluorescent White Balance 2]: Adjusts for natural white fluorescent lighting.</td>
</tr>
<tr>
<td>(Fluorescent White Balance 3)</td>
<td>[Fluorescent White Balance 3]: Adjusts for day white fluorescent lighting.</td>
</tr>
<tr>
<td>(Incandescent)</td>
<td>Adjusts for places under incandescent lamp, or under bright lighting, such as in a photo studio.</td>
</tr>
<tr>
<td>(Flash)</td>
<td>Adjusts for the flash conditions.</td>
</tr>
<tr>
<td>(One)</td>
<td>Adjusts the white balance depending on the light source. The white color memorized in (One Push Set) mode becomes the basic white color.</td>
</tr>
</tbody>
</table>
Push) Use this mode when [Auto] and other settings do not provide accurate colors.

**Effects of lighting conditions**
The apparent color of the subject is affected by the lighting conditions. The color tones are adjusted automatically, but you can adjust color tones manually using the White Balance function.

Daylight (White as Standard)

Cloudy (Bluish)

Fluorescent (Green-tinged)

Incandescent (Reddish)

**Notes**
- Under fluorescent lights that flicker, the white balance function may not work correctly even though you select [Fluorescent White Balance 1], [Fluorescent White Balance 2] or [Fluorescent White Balance 3].
- When shooting with a flash in other than [Flash] mode, [White Balance] is set to [Auto].
- When flash mode is [On] or [Slow Synchro], the white balance can only be set to [Auto], [Flash] or [One Push].
- You may not be able to set some MENU items depending on the selected REC mode. For details, see "MENU items not available in some REC modes." [Details]

**To capture the basic white color in One Push Set mode**

1. Frame a white object such as a piece of paper filling the screen under the same lighting conditions as you will shoot the subject.
2. MENU → (White Balance) → [One Push]

3. Touch 🌞 (One Push Set) → [OK]
   The screen momentarily turns black, and when the white balance has been adjusted and
   stored in the memory, the recording screen is displayed again.

Notes
- If the 🌞 indicator flashes while shooting, the white balance is either not set or cannot be
  set. Use automatic white balance.
- Do not shake or strike the camera while [One Push Set] is in progress.
- When flash mode is set to [On] or [Slow Synchro], the white balance is adjusted to the
  condition with the flash emitting.
Underwater White Balance (DSC-TX10 only)

Adjusts the color tone when the camera is set to (Underwater) mode in Scene Selection, or (Underwater iSweep Panorama) in [Movie shooting scene].

1. MENU → (Underwater White Balance)

2. Desired mode → [OK].

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Auto)</td>
<td>Automatically adjusts the color tones for underwater conditions to make the colors appear natural.</td>
</tr>
<tr>
<td>(Underwater 1)</td>
<td>Adjusts for underwater conditions where blue is strong.</td>
</tr>
<tr>
<td>(Underwater 2)</td>
<td>Adjusts for underwater conditions where green is strong.</td>
</tr>
</tbody>
</table>

**Note**
- Depending on the color of the water, Underwater White Balance may not work correctly even though you select [Underwater 1] or [Underwater 2].
Focus

Focusing on subjects near the edge of the screen
You can change the focus method. Use the menu when it is difficult to get the proper focus in auto focus mode.
AF stands for "Auto Focus," a function that adjusts the focus automatically.
The selected AF range finder frame appears on the screen.

1. MENU → (Focus) → desired mode
Depending on the REC mode, this is set using buttons displayed on the left side of the screen.

- (Multi AF)
Focuses on a subject in all ranges of the finder frame automatically. When you press the shutter button halfway down in still image shooting mode, a green frame is displayed around the area that is in focus.

- When the Face Detection function is active, AF operates with priority on faces.
- When Scene Selection is set to (Underwater), focus operation is adjusted to underwater shooting. When focus is achieved by half pressing the shutter button, a large frame is displayed in green (DSC-TX10).

- (Center AF)
Focuses on a subject in the center of the finder frame automatically. Using the AF lock function together, you can compose the image the way you want.

- (Spot AF)
Focuses on an extremely small subject or a narrow area automatically. Using the AF lock function together, you can compose the image the way you want.
Hold the camera steady so as not to misalign the subject and the AF range finder frame.

**Notes**

- When you use [Digital Zoom] or [AF Illuminator], the AF range finder frame is disabled and appears in a dotted line. In this case, the camera works to focus on the subjects at the center of the screen.
- When the focus mode is set to other than [Multi AF], you cannot use the Face Detection function.
- If Tracking focus is activated, the camera focuses with priority on the subject to be tracked.
- You may not be able to set some MENU items depending on the selected REC mode. For details, see “MENU items not available in some REC modes.” [Details]

**Quickly choosing the priority subject**

Touching the screen displays a frame, and then pressing the shutter button halfway down brings the frame into focus. Touch 📷❌ to release the focus.

**Focusing on subjects near the edge of the screen**

If the subject is out of focus, do as follows:

1. Recompose the shot so that the subject is centered in the AF range finder (A), and press the shutter button halfway to focus on the subject (AF lock).
2. When the AE/AF lock indicator (B) stops flashing and remains on, return to the fully composed shot, and press the shutter button fully down.
   - As long as you do not press the shutter button fully down, you can retry the procedure as many times as necessary.

**Related Topic**

Tracking focus
Metering Mode

Selects the metering mode that sets which part of the image to measure to determine the exposure.

1. MENU → (Metering Mode) → desired mode

### Metering Modes

- **[Multi]**
  Divides into multiple regions and measures each region. The camera determines a well-balanced exposure (Multi-pattern metering).

- **[Center]**
  Measures the center of the image, and determines the exposure based on the brightness of the subject there (Center-weighted metering).

- **[Spot]**
  Align the spot metering cross hairs (A) on the subject to meter one part of the subject (Spot metering). This function is useful when the subject is backlit or when there is strong contrast between the subject and the background.

### Notes
- If you set [Metering Mode] to other than [Multi], the Face Detection function cannot be used.
- You may not be able to set some MENU items depending on the selected REC mode. For details, see “MENU items not available in some REC modes.” [Details]
Scene Recognition

Advanced mode

The camera automatically detects shooting conditions, and then takes the shot. When a motion is detected, the ISO sensitivity is increased according to the movement to reduce subject blur. When the camera is set to Intelligent Auto mode, you can select [Advanced] mode in which the camera automatically shoots two images.

In Scene Recognition, the position of an icon displayed on the screen is different depending on whether the camera recognizes a scene or condition. If the camera recognizes a scene, icons and guides such as (Portrait), (Infant), (Twilight Portrait), (Twilight), (Backlight Portrait), (Backlight), (Landscape), (Macro), (Close Focus), (Spotlight) or (Low Light) are displayed on the first line. If the camera recognizes a condition, icons such as (Tripod) or (Move) are displayed on the second line. The camera may recognize both the scene and condition, or just one.

1. REC Mode ➔ (Intelligent Auto)

2. MENU ➔ SCN (Scene Recognition) ➔ desired mode

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>✓</td>
<td>SCN (Auto)</td>
</tr>
<tr>
<td></td>
<td>When the camera recognizes the scene, it switches to the optimal settings and shoots the image.</td>
</tr>
<tr>
<td></td>
<td>SCN+</td>
</tr>
<tr>
<td></td>
<td>When the camera recognizes the scene, it switches to the optimal settings.</td>
</tr>
<tr>
<td></td>
<td>When the camera recognizes Twilight, Twilight Portrait, Backlight, or Backlight Portrait, it automatically changes the setting and shoots another image.</td>
</tr>
<tr>
<td></td>
<td>• When you shoot 2 images consecutively, the + mark on the icon will</td>
</tr>
</tbody>
</table>
When two frames are shot, the two images are displayed side by side immediately after shooting.

When [Anti Blink] is displayed, 2 images are taken automatically and the image with the eyes open is selected automatically. [Details]

**Notes**

- Scene Recognition function does not operate when you shoot images using digital zoom.
- (Portrait), (Twilight Portrait) or (Backlight Portrait) are not recognized in Tracking Focus mode.
- The available flash settings are [Auto] and [Off].
- These scenes may not be recognized depending on the situation.
- When using (Tripod) and (Twilight) at the same time, sometimes cannot be recognized in an environment where vibrations are transferred to the camera even though it is fixed on a tripod.
- Sometimes a slow shutter results when a scene is recognized as a (Tripod) and (Twilight) at the same time. Keep the camera still during shooting.
- You may not be able to set some MENU items depending on the selected REC mode. For details, see “MENU items not available in some REC modes.” [Details]

### Advanced mode

In [Advanced] mode, the camera shoots two images consecutively with the settings differing as follows when it recognizes (Twilight), (Twilight Portrait), (Backlight) or (Backlight Portrait) scenes, which tends to blur. You can select the desired image from the two images shot.

<table>
<thead>
<tr>
<th>First Image*</th>
<th>Second Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>🕵️‍♂️ Shoots in Slow Synchro</td>
<td>Shoots with sensitivity increased and shake reduced</td>
</tr>
<tr>
<td>🕵️‍♂️ Shoots in Slow Synchro with the face which the flash strobes on as guide</td>
<td>Shoots with sensitivity increased with the face as guide and shake reduced</td>
</tr>
<tr>
<td>🕵️‍♂️ Shoots in Slow Synchro</td>
<td>Shoots with even slower shutter speed without increasing sensitivity.</td>
</tr>
<tr>
<td>🕵️‍♂️ Shoots with the flash</td>
<td>Shoots with the brightness and contrast of the background adjusted</td>
</tr>
<tr>
<td>🕵️‍♂️ Shoots with the face which the flash strobes on as guide</td>
<td>Shoots with the brightness and contrast of the face and the background adjusted</td>
</tr>
</tbody>
</table>

* When [Flash] is set to [Auto].

**What is the Anti Blink function?**

When set to [Advanced], the camera automatically shoots two images consecutively* when it recognizes (Portrait) or (Infant). The camera will select, display, and record the image which the eyes are not blinked automatically. If the eyes are closed in both images, the message “Blinked eye detected” is displayed.

* except when the flash strobes/when the shutter speed is slow.
Soft Skin Effect

When the Face Detection function is activated, sets whether to use the Soft Skin effect, and the effect level.

1. MENU → (Soft Skin Effect) → desired mode

<table>
<thead>
<tr>
<th>Mode</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Low)</td>
<td>Adds light Soft Skin Effect.</td>
</tr>
<tr>
<td>(Mid)</td>
<td>Adds moderate Soft Skin Effect.</td>
</tr>
<tr>
<td>(High)</td>
<td>Adds strong Soft Skin Effect.</td>
</tr>
</tbody>
</table>

Notes
- The [Soft Skin Effect] may not be visible depending on the subject.
- You may not be able to set some MENU items depending on the selected REC mode. For details, see “MENU items not available in some REC modes.” [Details]
Smile Shutter

When the camera detects a smile, the shutter is released automatically.

1. **MENU** → 😊 (Smile Shutter) → [On]

2. Wait for a smile to be detected.
   When a smile is detected and the smile level exceeds the 🎥 point on the indicator, the camera records images automatically.

- In Movie shooting scene, the indicator is not displayed.
- If you press the shutter button during Smile Shutter, the camera shoots the image, and then returns to Smile Shutter mode.

3. To end the Smile Shutter, touch **MENU** → 😊 (Smile Shutter).

💡 **Tips for better capturing of smiles**

1. Do not cover the eyes with the bangs. Do not obscure the face by hat, masks, sunglasses, etc.
2. Try to orient the face in front of the camera and be as level as possible. Keep the eyes narrowed.
3. Give a clear smile with an open mouth. The smile is easier to detect when the teeth are shown.
The shutter operates when any person whose face is being detected smiles.
You can select or register the priority subject for face detection with [Face Detection]. When the selected face is registered in the camera memory, Smile Detection is performed only for that face. [Details]
If a smile is not detected, select MENU → [Smile Detection Sensitivity], then set the value to [Slight Smile].

Notes
- Shooting using the Smile Shutter ends automatically when either the memory card or internal memory becomes full.
- Smiles may not be detected correctly depending on the conditions.
- You cannot use the digital zoom function.
- You may not be able to set some functions or MENU items depending on the selected REC mode. For details, see “Functions not available in some REC modes” [Details] and “MENU items not available in some REC modes.” [Details]

Related Topic
Smile Detection Sensitivity
Smile Detection Sensitivity

Sets the sensitivity of the Smile Shutter function for detecting smiles.

1. MENU → 😊 (Smile Detection Sensitivity) → desired mode

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>😊 (Big Smile)</td>
<td>Detects a big smile.</td>
</tr>
<tr>
<td>😊 (Normal Smile)</td>
<td>Detects a normal smile.</td>
</tr>
<tr>
<td>😊 (Slight Smile)</td>
<td>Detects even a slight smile.</td>
</tr>
</tbody>
</table>

Notes
- Smiles may not be detected correctly depending on the conditions.
- You may not be able to set some MENU items depending on the selected REC mode. For details, see “MENU items not available in some REC modes.” [Details]

Related Topic
Smile Shutter
Face Detection

When the Face Detection function is used, the camera detects the faces of your subjects and adjusts the focus, flash, exposure, white balance and red-eye reduction settings automatically.

When the camera detects more than one subject, the camera will judge which is the main subject and set focus by priority. The frame for which the focus is set will turn green by pressing the shutter button halfway down.

1. MENU → [ ] (Face Detection) → desired mode

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ ] (Off)</td>
<td>Cannot use Face Detection.</td>
</tr>
<tr>
<td>[ ] (Auto)</td>
<td>Selects the face the camera is to automatically focus on.</td>
</tr>
<tr>
<td>[ ] (Child Priority)</td>
<td>Detects and shoots with priority on a child’s face.</td>
</tr>
<tr>
<td>[ ] (Adult Priority)</td>
<td>Detects and shoots with priority on an adult’s face.</td>
</tr>
</tbody>
</table>

Notes
- [Off] is not available when [Self-Timer] is set to [Self-portrait One Person] or [Self-portrait Two People].
- You can select [Face Detection] only when the focus mode is set to [Multi AF] and the metering mode is set to [Multi].
- The Face Detection function does not work when using the digital zoom.
- Up to 8 faces of your subjects can be detected.
- Adults and children may not be recognized correctly depending on the conditions.
- During Smile Shutter shooting, [Face Detection] is automatically set to [Auto] even if it is set to [Off].
- You may not be able to set some MENU items depending on the selected REC mode. For details, see “MENU items not available in some REC modes.” [Details]
Anti Blink

When Scene Selection is set to (Soft Skin) or (Soft Snap) and the subject blinks while you are shooting an image, the camera automatically shoots two images consecutively. The camera will select, display and record the image in which the eyes are not blinked automatically.

1. MENU → (Anti Blink) → desired mode

<table>
<thead>
<tr>
<th>(Auto)</th>
<th>When Face Detection is active, the Anti Blink function operates so that images with the subject’s eyes open are recorded.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Off)</td>
<td>Does not use the Anti Blink function.</td>
</tr>
</tbody>
</table>

Notes

- Anti Blink does not function in the following situations:
  - When using the flash
  - During burst shooting
  - When the Face Detection function does not work
  - When the Smile Shutter function is activated
- Sometimes the Anti Blink function does not work depending on the situation.
- When the Anti Blink function is set to [Auto] but only images with the subject’s eyes closed are recorded, the message “Blinked eye detected” is displayed on the screen. Shoot again as necessary.

Related Topic

Scene Selection
Position Information (DSC-TX100V only)

GPS triangulating status can be checked. During displaying the GPS triangulating status, GPS is easy to triangulate to be set the camera.

1. MENU ➔ (Position Information)

Displays the triangulating information on the screen.

On the GPS indicators
The indicator (A) changes according to the strength of GPS signal reception when GPS is activated.

<table>
<thead>
<tr>
<th>GPS indicators</th>
<th>Triangulating status</th>
<th>GPS reception status</th>
</tr>
</thead>
<tbody>
<tr>
<td>No indicator</td>
<td>Off</td>
<td>[GPS setting] is set to [Off] or an error occurred.</td>
</tr>
<tr>
<td>Difficult</td>
<td></td>
<td>Your camera cannot find a GPS signal, therefore, it cannot acquire location information. Use your camera in an open area.</td>
</tr>
<tr>
<td>Searching</td>
<td></td>
<td>Searching for GPS satellites. It may take several minutes to start triangulating.</td>
</tr>
<tr>
<td>Triangulating</td>
<td></td>
<td>During GPS triangulating, displays latitude / longitude (B).</td>
</tr>
</tbody>
</table>

Satellite and positioning indicators
Satellite position and acquiring status of orbital information (C) can be checked on the position information display. Up to 4 indicators which show satellite information-acquiring status are displayed on the positioning indicator (D).
The color of satellite indicator and positioning indicator change according to the positioning status. Green-colored indicator shows that camera is triangulating.
Notes

- If the GPS signal can be received from several satellites, depending on the situation, the correct shooting direction may not be recorded, displayed or taken a time.
- In searching the satellite positions, or triangulating, its may fail when you put your fingers on the GPS receiver.

Related Topic

GPS setting (DSC-TX100V only)
GPS (DSC-TX100V only)
In-Camera Guide

This camera contains an internal function guide. This allows you to search for camera functions according to your needs. You can use the selected function after reading the guide.

1. Touch ❓(In-Camera Guide)
   If the icon button is not displayed on the left of the screen, touch the MENU to display.

2. Select a search method from the [In-Camera Guide].

<table>
<thead>
<tr>
<th>Guidance</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shoot/ playback guide</td>
<td>Search for various operation functions in shooting/viewing mode.</td>
</tr>
<tr>
<td>Icon guide</td>
<td>Search the function and meaning of displayed icons.</td>
</tr>
<tr>
<td>Troubleshooting</td>
<td>Search common problems and their solution.</td>
</tr>
<tr>
<td>Objective guide</td>
<td>Search functions according to your needs.</td>
</tr>
<tr>
<td>Keyword</td>
<td>Search functions by key words.</td>
</tr>
<tr>
<td>History</td>
<td>Display the last 10 items displayed in [In-Camera Guide].</td>
</tr>
</tbody>
</table>
### MENU items not available in some REC modes

In the table below, ✓ indicates settings that can be changed, while — indicates settings that cannot be changed. The icons below SCN indicate the available modes. A setting may be fixed or restricted depending on the shooting mode. For details, see each topic.

#### DSC-TX10

<table>
<thead>
<tr>
<th>Menu items</th>
<th>3D</th>
<th>SCN</th>
<th>SCN</th>
<th>SCN</th>
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<th>SCN</th>
<th>SCN</th>
<th>SCN</th>
<th>SCN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Movie shooting scene</td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Easy Mode</td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Flash</td>
<td></td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Self-Timer</td>
<td></td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Defocus Effect</td>
<td></td>
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<td>✓</td>
<td>✓</td>
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<tr>
<td>Still Image Size</td>
<td></td>
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<tr>
<td>Panorama Image Size</td>
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<td>Movie Quality</td>
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<td>✓</td>
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<td>Movie Size</td>
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<td>✓</td>
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<tr>
<td>Burst Settings</td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<td>✓</td>
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<td>✓</td>
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<tr>
<td>Macro</td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<td>✓</td>
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<td>✓</td>
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</tr>
<tr>
<td>EV</td>
<td></td>
<td>✓</td>
<td>✓</td>
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<td>✓</td>
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<td>✓</td>
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<td>✓</td>
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</tr>
<tr>
<td>White Balance*1</td>
<td></td>
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<td>✓</td>
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<td>✓</td>
<td>✓</td>
<td>✓</td>
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<td>✓</td>
<td>✓</td>
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<td>✓</td>
</tr>
<tr>
<td>Underwater</td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

*1 White Balance: In Manual or Underwater mode.
<table>
<thead>
<tr>
<th>Menu items</th>
<th>3D</th>
<th>SCN</th>
<th>P</th>
<th>SCN</th>
<th>SCN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Movie shooting scene</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Easy Mode</td>
<td></td>
<td></td>
<td>–</td>
<td>–</td>
<td>–</td>
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<tr>
<td>Movie button</td>
<td></td>
<td></td>
<td>–</td>
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<tr>
<td>Flash</td>
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<tr>
<td>Self-Timer</td>
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<tr>
<td>Defocus Effect</td>
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<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Still Image</td>
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<td>–</td>
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</tr>
</tbody>
</table>

*1 [Flash] cannot be selected for [White Balance] when Scene Selection is set to (Anti Motion Blur), (Hand-held Twilight) or (High Sensitivity).
*2 [Off] cannot be selected for [Soft Skin Effect] when Scene Selection is set to (Soft Skin).
*3 [Off] cannot be selected for [Face Detection] when Scene Selection is set to (Soft Skin) or (Soft Snap).

**DSC-TX100 / TX100V**
<table>
<thead>
<tr>
<th>Size</th>
<th>Panorama Image Size</th>
<th>Movie Quality</th>
<th>Movie Size</th>
<th>Burst Settings</th>
<th>Macro</th>
<th>EV</th>
<th>ISO</th>
<th>White Balance*1</th>
<th>Focus</th>
<th>Metering Mode</th>
<th>Scene Recognition</th>
<th>Soft Skin Effect*2</th>
<th>Smile Shutter</th>
<th>Smile Detection Sensitivity</th>
<th>Face Detection*3</th>
<th>Anti Blink</th>
<th>Position Information</th>
<th>In-Camera Guide</th>
<th>(Settings)</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

*1 [Flash] cannot be selected for [White Balance] when Scene Selection is set to \(\text{Anti Motion Blur}\), \(\text{Hand-held Twilight}\) or \(\text{ISO}\) (High Sensitivity).

*2 [Off] cannot be selected for [Soft Skin Effect] when Scene Selection is set to \(\text{Soft Skin}\).

*3 [Off] cannot be selected for [Face Detection] when Scene Selection is set to \(\text{Soft Skin}\) or \(\text{Soft Snap}\).

**Notes**
- [Underwater] is available only on the DSC-TX10.
- Only the items that are available for each mode are displayed on the screen.
- The 4 menu items displayed under MENU differ according to the mode.
Using MENU items (Viewing)

You can select the various viewing functions easily from the screen.

1. Press the (Playback) button to switch to playback mode.
2. Touch MENU to display the Menu screen.
   The 4 menu items usually displayed under MENU will not appear on the MENU screen.
3. Touch the MENU items desired mode
Easy Mode

When viewing still images in Easy Mode, the playback screen text becomes larger, indicators become easier to see, and fewer functions can be used.

1. Press the (Playback) button to switch to playback mode.
2. MENU → EASY (Easy Mode) → [OK]

Notes
- The battery charge is used up more quickly because the screen brightness increases automatically.
- The shooting mode also changes to [Easy Mode].

Viewing functions available in Easy Mode

In Easy Mode, only the deletion function is available.

<table>
<thead>
<tr>
<th>(Delete)</th>
<th>You can delete the currently displayed image.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Zoom)</td>
<td>Enlarges the displayed image. Drag up, down, right or left, or touch ▲ / ▼ / ◀ / ▶ to change the zoom position. Touch ◀ / ▶ to change the zoom magnification.</td>
</tr>
<tr>
<td>MENU button</td>
<td>You can delete the currently displayed image with [Delete Single Image], and delete all images in the selected date range or internal memory (if selected) with [Delete All Images]. Select [Exit Easy Mode] → [OK] to exit Easy Mode.</td>
</tr>
</tbody>
</table>

Note
- When a memory card is inserted in the camera, [View Mode] is set to [Date View].
Date Select

Selects the desired image to view by date.

1. Press the 
(Playback) button to switch to playback mode.

2. Touch 
(Date Select).

3. Displaying images shot on a specific date at center of the screen by dragging on the screen to select the date.

4. Touch the centre of image.

**Selecting a date by a time line bar**

Touch (A) on the time line bar to select the date.
**Calendar**

This feature selects the date to be played back on the calendar when using Date View. Step 2 is unnecessary when [Date View] is already set.

1. Press the (Playback) button to switch to playback mode.
2. **MENU** → touch (Calendar).
3. Select the month you want to display with / , then touch the desired date.
   Drag the thumbnails of images for the selected date up or down to change the page. Touch an image to return to the single-image screen for that image.

**Note**
- This function is not displayed when the internal memory is used.
Image Index

Displays multiple images at the same time.

1. Press the (Playback) button to switch to playback mode.
2. Touch (Image Index).

3. Touch the screen and drag up or down to change the page.
   Touch an image on the index screen to return to the single-image screen for that image.

Related Topic
Number of images in index
Slideshow

Continuous Playback

Images are automatically played back in succession.

1. Press the (Playback) button to switch to playback mode.
2. MENU → (Slideshow) → desired slideshow

<table>
<thead>
<tr>
<th>(Continuous Playback)</th>
<th>Starts playback from the currently displayed image. Playback stops at the image just before the starting image.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Slideshow with music)</td>
<td>Plays back still images in succession along with effects and music.</td>
</tr>
</tbody>
</table>

Note

- [Slideshow] is not available when [View Mode] is set to [Folder view (MP4)] or [AVCHD view].

Continuous Playback

1. Select the desired image for playing.
2. MENU → (Slideshow) → [Continuous Playback]
3. To end continuous playback, touch the screen, and then touch [Exit Continuous Playback]. Touch + or - on the screen to adjust the movie volume.

Viewing panoramic images during continuous playback

The whole panoramic image is displayed for 3 seconds. You can scroll a panoramic image by touching ➤.

Slideshow with music

1. MENU → (Slideshow) → [Slideshow with music]
2. Desired setting → [OK].
3. To end continuous playback, touch the screen, and then touch [Exit Slideshow].

**Note**
- [Slideshow with music] is not available for the following images:
  - Panoramic images
  - 3D images recorded in [Standard] or [Wide] size

### Playback Selection
Selects the group of images to be shown. The setting is fixed to [Folder] when the internal memory is used to record images.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>Plays a slideshow of all the images in order.</td>
</tr>
<tr>
<td>This Date</td>
<td>Plays a slideshow of images with the currently selected date range when View Mode is [Date View].</td>
</tr>
<tr>
<td>Folder</td>
<td>Plays a slideshow of images in the currently selected folder in Folder View.</td>
</tr>
</tbody>
</table>

### Effects
Selects the playback speed and mood for slideshows. If the playback time of movie is long, an image is taken from it and displayed.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simple</td>
<td>A simple slideshow switching images at a preset interval. The playback interval is adjustable in [Interval] and you can thoroughly enjoy your images.</td>
</tr>
<tr>
<td>Nostalgic</td>
<td>A moody slideshow reproducing the atmosphere of a movie scene.</td>
</tr>
<tr>
<td>Stylish</td>
<td>A stylish slideshow proceeding at a middle tempo.</td>
</tr>
<tr>
<td>Active</td>
<td>A high-tempo slideshow suitable for active scenes.</td>
</tr>
</tbody>
</table>

### Music
Specifies the music to be played during slideshows. You can select more than one background music track. Touch ♫ to listen to each background music. Touch ″ or ′ to adjust the background music volume.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music1</td>
<td>The default setting for a [Simple] slideshow.</td>
</tr>
<tr>
<td>Music2</td>
<td>The default setting for a [Nostalgic] slideshow.</td>
</tr>
<tr>
<td>Music3</td>
<td>The default setting for a [Stylish] slideshow.</td>
</tr>
<tr>
<td>Music4</td>
<td>The default setting for an [Active] slideshow.</td>
</tr>
<tr>
<td>Muting</td>
<td>Does not use BGM.</td>
</tr>
</tbody>
</table>

**Note**
- The movies are played back without their audio.

### Interval
Sets the screen switching interval. The setting is fixed to [Auto] when [Simple] is not selected as the [Effects].

<table>
<thead>
<tr>
<th>Interval</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 sec</td>
<td></td>
</tr>
</tbody>
</table>
Sets the display interval of images for a [Simple] slideshow.

<table>
<thead>
<tr>
<th>Interval</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 sec</td>
<td></td>
</tr>
<tr>
<td>5 sec</td>
<td></td>
</tr>
<tr>
<td>10 sec</td>
<td></td>
</tr>
<tr>
<td>Auto</td>
<td>The interval is set to suit the selected [Effects] item.</td>
</tr>
</tbody>
</table>

**Selecting background music**

You can transfer a desired music file from your CDs or MP3 files to the camera to play back during slideshow. To transfer music, install the "Music Transfer" software to your computer. [Details]

- You can record up to four pieces of music on the camera. (The 4 preset pieces (Music1 – Music4) can be replaced with the ones you transferred.)
- The maximum length of each music file for music playback of the camera is about 5 minutes.
- If you cannot play back a music file due to damage or other malfunctions of the file, execute [Empty Music] [Details] and transfer the music again.

**Related Topic**

"Music Transfer"

Installing "PMB" and "Music Transfer" (Windows)

Installing "Music Transfer" (Macintosh)
Delete

Allows you to select unwanted images for deletion.

1. Press the  
   
   
   
   
   (Playback) button to switch to playback mode.

2.  
   
   
   
   
   (Delete)  
   desired mode

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
   (All but This Image)            | Deletes burst group images other than the selected image in Display Burst Group mode.  
   After step 2, touch [OK].       |
|  
   (All Img in This Burst Group)   | Deletes all images in the selected burst group at once.  
   After step 2, touch [OK].       |
|  
   (This Image)                    | Deletes the currently displayed image in single-image mode.                                                                                   |
|  
   (Multiple Images)               | Allows you to select and delete multiple images.  
   Do as the following after step 2. |
|                                   | ① Select an image then touch it.  
   Repeat the above steps until there are no more images to be deleted.  
   Touch an image with a mark again to release the mark.  
   ② Touch MENU  
   [OK]                                                                 |
|  
   (All Images on This Date)       | Deletes all images in the selected date range or folder, or all movies in AVC HD view files at once.  
   After step 2, touch [OK].       |
|  
   (All in This Folder)            |                                                                                                                                             |
|  
   (All AVCHD view files)          |                                                                                                                                             |

💡 You can switch between index and single-image mode when selecting images

When you select  

(Multiple Images), touch  

on the index screen to return to the single-image screen, and touch  

on the single-image screen to return to the index screen.

- You can also switch between index and single-image mode in [Protect], [Send by TransferJet] or [Print (DPOF)].
Notes

- Using the internal memory, the image is displayed in Folder View.
- Movie in AVCHD view description as follows:
  DSC-TX10: AVCHD-format movies
  DSC-TX100 / TX100V: Recorded with [Movie format] set to [AVCHD 50i/50p] or [AVCHD 60i/60p]. [Details]
Send by TransferJet

Receiving images using TransferJet
Using separately sold TransferJet-compatible devices
TransferJet is a close-up, wireless transfer technology that allows data to be transferred by closely aligning two products that you want to communicate with each other.
To find out whether your camera is equipped with the TransferJet function, check for the (TransferJet) mark on the bottom of the camera.
Using a Memory Stick with TransferJet (sold separately) allows images to be transferred between TransferJet-compatible devices.
For more details on TransferJet, see the operating instructions supplied with Memory Stick with TransferJet.

1. Insert a Memory Stick with TransferJet into the camera.
2. Press the (Playback) button to switch to playback mode.
3. MENU (Send by TransferJet) desired mode
4. Transfer images by closely aligning the (TransferJet) marks on the camera and other device.
   A notification sound is emitted when connection is made.

| (This Image) | Sends the currently displayed image in single-image mode. |
| (Multiple Images) | You can select and send multiple images. After step 3, perform the following. |
| | ① Select an image to be sent, then touch it. |
| | Repeat the above steps until there are no more images to be sent. |
| | Touch an image with a mark again to release the mark. |
| | ② Touch [OK] [OK]. |

Notes
- Only still images can be transferred.
- Up to 10 images can be transferred at once. However, for 3D images, both the MPO file and the JPEG file are transferred. Depending on the receiving device, up to 20 images are received.
- Set [TransferJet] to [On] in (Settings). [Details]
- On an airplane, set [TransferJet] to [Off] in (Settings) [Details]. In addition, follow the rules of the place where you use.
- The connection is cut if transfer cannot be made within about 30 seconds. If this happens, select [Yes] and realign the two (TransferJet) marks on the camera and another device.
- Memory Stick with TransferJet and camera models with TransferJet are not sold in some

TransferJet is a close-up, wireless transfer technology that allows data to be transferred by closely aligning two products that you want to communicate with each other. To find out whether your camera is equipped with the TransferJet function, check for the (TransferJet) mark on the bottom of the camera. Using a Memory Stick with TransferJet (sold separately) allows images to be transferred between TransferJet-compatible devices. For more details on TransferJet, see the operating instructions supplied with Memory Stick with TransferJet.

1. Insert a Memory Stick with TransferJet into the camera.
2. Press the (Playback) button to switch to playback mode.
3. MENU (Send by TransferJet) desired mode
4. Transfer images by closely aligning the (TransferJet) marks on the camera and other device.
   A notification sound is emitted when connection is made.
Receiving images using TransferJet

1. Press the \( \text{Playback} \) button to switch to playback mode.
2. Closely align the \( \text{TransferJet} \) marks on the camera and sending device to receive images.
   A notification sound is emitted when connection is made.

Tips for sending and receiving data successfully

Closely align the \( \text{TransferJet} \) mark on the camera and other device.

- The transfer rate and range differ depending on the angle at which the \( \text{TransferJet} \) marks are aligned.
- It may be necessary to alter the position / angle of the camera until communication can be obtained.
- Sending and receiving data is easier if the \( \text{TransferJet} \) marks are aligned with both cameras parallel to each other as shown in the figure.

Notes

- Only images that can be played back on the camera can be sent or received.
- This camera can receive only MPO and JPEG files.
- If an Image Database File error occurs during saving, a Recover Image Database File screen will appear.
- Play images that cannot be registered in the Image Database File using [Folder view (Still)].

Using separately sold TransferJet-compatible devices

Using separately sold TransferJet-compatible devices allows you to transfer images to a PC and can broaden your enjoyment of transferring data.

For details, see the operating instructions supplied with your TransferJet-compatible device.

- Note the following points when using TransferJet-compatible devices.
  - Before use, set the camera to playback mode.
  - If no image is displayed, touch MENU \( \rightarrow \) (Settings) \( \rightarrow \) (Main Settings) \( \rightarrow \) [LUN Setting] \( \rightarrow \) [Single].
  - While connected, data cannot be written to or deleted from the camera.
  - Do not disconnect while importing images to “PMB”.

Related Topic
TransferJet
TransferJet standard
Paint

Paints or adds stamps to a still image and saves it as a new file. The original image is retained.

1. Press the (Playback) button to switch to playback mode.

2. MENU → (Paint)

3. Draw on the image using the paint pen (supplied).

4. Touch the / button → select the saved image size.

<table>
<thead>
<tr>
<th>Button</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>/</td>
<td>Save</td>
</tr>
<tr>
<td></td>
<td>Saves the image in VGA or 5M format in the internal memory or on a memory card.</td>
</tr>
<tr>
<td>Pen</td>
<td>Paint characters or graphics.</td>
</tr>
<tr>
<td>Eraser</td>
<td>Make corrections.</td>
</tr>
<tr>
<td>Stamp</td>
<td>Apply a stamp to the image.</td>
</tr>
<tr>
<td>Thickness/Stamps</td>
<td>Select the pen or eraser thickness, or the stamp.</td>
</tr>
<tr>
<td>Color</td>
<td>Select the color.</td>
</tr>
<tr>
<td>Exit</td>
<td>Exit paint mode.</td>
</tr>
<tr>
<td>Frame</td>
<td>Add a frame. Select the desired frame with ◀ / ▶.</td>
</tr>
<tr>
<td>Action</td>
<td>Description</td>
</tr>
<tr>
<td>-------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>Revert</td>
<td>Undo the last action.</td>
</tr>
<tr>
<td>Clear all</td>
<td>Erase all painting.</td>
</tr>
</tbody>
</table>

**Note**
- You cannot paint or put stamps on the following images:
  - Panoramic images
  - 3D images
  - Movies
  - Images displayed in a burst group
Retouch

Retouches a recorded image and saves it as a new file. The original image is retained.

1. Press the (Playback) button to switch to playback mode.
2. MENU → (Retouch) → desired mode
3. Perform retouching according to the operation method in each mode.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Trimming)</td>
<td>Records the zoomed playback image.</td>
</tr>
<tr>
<td>(Resize)</td>
<td>Touch / → set the point with / → [Next] → select an image size to save.</td>
</tr>
<tr>
<td></td>
<td>The quality of trimmed images may deteriorate.</td>
</tr>
<tr>
<td></td>
<td>The image size that you can trim may vary depending on the image.</td>
</tr>
<tr>
<td>(Red Eye</td>
<td>Corrects the red-eye phenomenon caused by flash.</td>
</tr>
<tr>
<td>Correction)</td>
<td>After red eye correction is completed, touch [OK].</td>
</tr>
<tr>
<td></td>
<td>You may not be able to correct the red-eye phenomenon depending on the image.</td>
</tr>
<tr>
<td>(Framing)</td>
<td>Sharpens the image within a chosen frame.</td>
</tr>
</tbody>
</table>
Touch the area (frame) of the desired image to retouch → [Next] → [OK]

- Depending on the image, sufficient correction may not be applied and the image quality may deteriorate.

**Note**
- You cannot retouch the following images:
  - Panoramic images
  - 3D images
  - Movies
  - Images displayed in a burst group
3D Viewing

Select [3D Viewing] when you want to play back images shot in 3D mode on a 3D TV. Connect the camera and the 3D TV using an HDMI Cable (sold separately). [Details]

1. Press the (Playback) button to switch to playback mode.
2. **MENU** → [3D Viewing] → [OK]

💡 Setting to 3D Viewing mode easily

You can set the camera to 3D Viewing mode by touching on the upper right side of the screen.

Related Topic

Viewing 3D images on a 3D TV
View Mode

Viewing images taken with a different camera

Allows you to select the display format for images.

1. Press the (Playback) button to switch to playback mode.
2. MENU → (View Mode) → desired mode

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Date View)</td>
<td>Displays images by date.</td>
</tr>
<tr>
<td>(Folder view (Still))</td>
<td>Displays still images.</td>
</tr>
<tr>
<td>(Folder view (MP4))</td>
<td>Displays MP4-format movies.</td>
</tr>
</tbody>
</table>
| (AVCHD view)  | Displays movie as follows:
                 DSC-TX10: AVCHD-format movies
                 DSC-TX100 / TX100V: Recorded with [Movie format] set to [AVCHD 50i/50p] or [AVCHD 60i/60p]. [Details] |

Note

- When the internal memory is used to record images, still images are displayed in the Folder View.

Viewing images taken with a different camera

This camera creates an Image Database File on the memory card for recording and playing images. If the camera detects images not registered in the Image Database File on the memory card, a registration screen with the message “Files found which were not recognized Import files” will be displayed.

To view unregistered images, register them by selecting [OK].

- Use a sufficiently charged battery to register images. If a battery with a low charge is used to register images, it may not be possible to transfer all of the data or the data may be corrupted if the battery charge runs out.

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Display Burst Group

You can select to display burst images in groups or display all images during playback.

1. Press the (Playback) button to switch to playback mode.
2. MENU → (View Mode) → (Date View)
3. MENU → (Display Burst Group) → desired setting

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Display Main Image Only)</td>
<td>Groups burst images, then plays back the main image only. When Face Detection is performed in burst mode, the camera determines and displays the optimum image as the main image. When Face Detection is not performed, the first image in the burst group is displayed as the main image.</td>
</tr>
<tr>
<td>(Display All)</td>
<td>Plays back all burst images one at a time.</td>
</tr>
</tbody>
</table>

Related Topic

Viewing burst images
### Protect

Protects recorded images against accidental erasure. The \( \square \) mark is displayed for registered images.

1. Press the \( \square \) (Playback) button to switch to playback mode.
2. MENU \( \square \) (Protect) \( \rightarrow \) desired mode

<table>
<thead>
<tr>
<th>Protect Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>( \square ) (This Image)</td>
<td>Protects the currently displayed image in single-image mode. You can select and protect multiple images. Do as the following after step 2.</td>
</tr>
<tr>
<td>( \square ) (Multiple Images)</td>
<td>Select an image to be protected, then touch it. Repeat the above steps until there are no more images to be protected. Touch an image with a ( \checkmark ) mark again to release the ( \checkmark ) mark.</td>
</tr>
<tr>
<td>( \checkmark ) (Set All Burst Images.)</td>
<td>Protects all images in the selected burst group at once in Display Burst Group mode. Touch [OK] after step 2.</td>
</tr>
<tr>
<td>( \checkmark ) (Set All on This Date)</td>
<td>Protects all images in the date range or folder, or all movies in AVC HD view. Touch [OK] after step 2.</td>
</tr>
<tr>
<td>( \checkmark ) (Set All in This Folder)</td>
<td>Protects all images in the date range or folder, or all movies in AVC HD view. Touch [OK] after step 2.</td>
</tr>
<tr>
<td>( \checkmark ) (Set All AVCHD view files)</td>
<td>Protects all AVCHD view files.</td>
</tr>
<tr>
<td>( \checkmark ) (Remove All Burst Images.)</td>
<td>Unlocks all protected images in the selected burst group at once in Display Burst Group mode. Touch [OK] after step 2.</td>
</tr>
<tr>
<td>( \checkmark ) (Remove All on This Date)</td>
<td>Unlocks all images in the date range or folder, or all movies in AVC HD view files at once. Touch [OK] after step 2.</td>
</tr>
<tr>
<td>( \checkmark ) (Remove All in This Folder)</td>
<td>Unlocks all images in the date range or folder, or all movies in AVC HD view files at once. Touch [OK] after step 2.</td>
</tr>
<tr>
<td>( \checkmark ) (Remove All AVCHD view file)</td>
<td>Unlocks all AVCHD view files.</td>
</tr>
</tbody>
</table>

### Notes

-
- When the internal memory is used to record images, still images are displayed in the Folder View.
- Movie in AVCHD view description as follows:
  DSC-TX10: AVCHD-format movies
  DSC-TX100 / TX100V: Recorded with [Movie format] set to [AVCHD 50i/50p] or [AVCHD 60i/60p]. [Details]
Print (DPOF)

DPOF (Digital Print Order Format) is a function that allows you to specify the images of the memory card that you want to print out later. The DPOF (Print order) mark is displayed for registered images.

1. Press the (Playback) button to switch to playback mode.
2. MENU → Print (DPOF) → desired mode

<table>
<thead>
<tr>
<th>DPOF (This Image)</th>
<th>Orders printing the currently displayed image in single-image mode.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPOF (Multiple Images)</td>
<td>You can select and order printing multiple images. Do as the following, after step 2.</td>
</tr>
<tr>
<td></td>
<td>Select an image to be printed, then touch it. Repeat the above steps until there are no more images to be printed.</td>
</tr>
<tr>
<td></td>
<td>Touch an image with a DPOF mark again to release the DPOF mark.</td>
</tr>
<tr>
<td></td>
<td>Touch [OK] → [OK].</td>
</tr>
</tbody>
</table>

Notes

- The DPOF (Print order) mark cannot be added to the following images:
  - Movies
  - Images in the internal memory
- You can add a DPOF (Print order) mark to a maximum 999 images.

Related Topic

Printing still images

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Rotate

Rotates a still image. Use this to display a horizontal orientation image in vertical orientation.

1. Press the \(\text{ }^\text{ }\text{ }\text{ }\text{ }\) (Playback) button to switch to playback mode.
2. \(\text{MENU} \rightarrow \text{ }^\text{ }\text{ }\text{ }\text{ }\) (Rotate)
3. \(\text{ }^\text{ }\text{ }\text{ }\text{ }\) \(\text{OK}\).

Notes
- You cannot rotate the following images:
  - Movies
  - 3D Still Image
  - Images displayed in a burst group
- You may not be able to rotate images shot with other cameras.
- When viewing images on a computer, the image rotation information may not be reflected depending on the software.
Volume

Adjusts the volume for slideshow and movie playback.

1. Press the (Playback) button to switch to playback mode.

2. MENU ➔ (Volume)

3. Adjust the volume by touching or ➔ [OK].

You can also adjust the volume by touching ● on the volume adjustment bar and dragging to the right or left.

Adjusting the volume during playback of a movie or slideshow

Movie playback: Touch the screen to display the operation buttons, touch ‹ and then touch ▲+ or ▲− to adjust the volume.

Slideshow: Touch the screen to display the volume control screen, then touch ▲+ or ▲− to adjust the volume.
Exposure data

This sets whether or not to display the exposure data of the currently displayed file.

1. Press the (Playback) button to switch to playback mode.
2. MENU → (Exposure data) → desired mode

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(On)</td>
<td>Displays the exposure data on the screen.</td>
</tr>
<tr>
<td>(Off)</td>
<td>Does not display the exposure data.</td>
</tr>
</tbody>
</table>
Number of images in index

Sets the number of images displayed in the index screen.

1. Press the (Playback) button to switch to playback mode.
2. Touch [Image Index].
3. MENU → (Number of images in index) → desired mode

- (12-up) Displays 12-up images.
- (28-up) Displays 28-up images.
In-Camera Guide

This camera contains an internal function guide. This allows you to search for camera functions according to your needs.
You can use the selected function after reading the guide.

1. Touch ? (In-Camera Guide)

2. Select a search method from [In-Camera Guide].

<table>
<thead>
<tr>
<th>Guidance</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shoot/ playback guide</td>
<td>Search for various operation functions in shooting/viewing mode.</td>
</tr>
<tr>
<td>Icon guide</td>
<td>Search the function and meaning of displayed icons.</td>
</tr>
<tr>
<td>Troubleshooting</td>
<td>Search common problems and their solution.</td>
</tr>
<tr>
<td>Objective guide</td>
<td>Search functions according to your needs.</td>
</tr>
<tr>
<td>Keyword</td>
<td>Search functions by key words.</td>
</tr>
<tr>
<td>History</td>
<td>Display the last 10 items displayed in [In-Camera Guide].</td>
</tr>
</tbody>
</table>
### MENU items that cannot be set according to View Mode

In the table below, ✓ indicates a user-changeable function, while — indicates an unchangeable one.

<table>
<thead>
<tr>
<th>Menu items</th>
<th>Memory card</th>
<th>Internal Memory</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Date View</td>
<td>Folder view</td>
</tr>
<tr>
<td></td>
<td>(Still)</td>
<td>(MP4)</td>
</tr>
<tr>
<td>EASY (Easy Mode)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>(Date Select)</td>
<td>✓</td>
<td>—</td>
</tr>
<tr>
<td>(Calendar)</td>
<td>✓</td>
<td>—</td>
</tr>
<tr>
<td>(Image Index)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>(Slideshow)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>(Delete)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>(Send by TransferJet)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>(Paint)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>(Retouch)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>(3D Viewing)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>(View Mode)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>(Display Burst Group)</td>
<td>✓</td>
<td>—</td>
</tr>
<tr>
<td>(Protect)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Print (DPOF)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>(Rotate)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>(Volume)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>(Exposure data)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>(Number of images in index)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>(In-Camera Guide)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>(Settings)</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

**Notes**

175
- Only the items that are available for each mode are displayed on the screen.
- 4 MENU items displayed under MENU vary depending on the selected mode.
Changing camera settings

You can change the settings on the (Settings) screen.

1. Touch MENU to display the Menu screen.

2. Touch (Settings) → desired category → desired function → desired mode

Notes
- [Shooting Settings] appears only when settings have been entered from shooting mode.
- [Memory Card Tool] appears only when a memory card is inserted in the camera, while [Internal Memory Tool] appears only when a memory card is not inserted.
### Movie format

You can set the recording method used to record movies.

1. Set the camera to shooting mode.
2. MENU → (Settings) → (Shooting Settings) → [Movie format] → desired mode

#### DSC-TX10

<table>
<thead>
<tr>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVCHD</td>
<td>AVCHD movies are recorded. Sets the recording method to AVCHD, which is suitable for viewing smooth video images on a high-definition television. Blu-ray discs, AVCHD discs and DVD-Video discs can be created using the supplied software “PMB”. However, movies cannot be created from movies recorded in [AVC HD 24M (FX)] to AVCHD discs. Save the images to Blu-ray discs.</td>
</tr>
<tr>
<td>MP4</td>
<td>MP4 (AVC) movies are recorded. Sets the recording method to MP4, which is suitable for WEB uploads and e-mail attachments. No discs can be created from MP4 movies, even if you use the supplied software “PMB”.</td>
</tr>
</tbody>
</table>

#### DSC-TX100 / TX100V

<table>
<thead>
<tr>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVCHD 60i/60p / AVCHD 50i/50p</td>
<td>Sets the recording method to [AVCHD 60i/60p] (1080 60i-compatible devices) or [AVCHD 50i/50p] (1080 50i-compatible devices), which is suitable for viewing smooth video images on a high-definition television. Blu-ray discs, AVCHD discs and DVD-Video discs can be created using the supplied software “PMB”. However, movies recorded with Movie Mode set to [AVC HD 28M (PS)] cannot be saved to a disc without changing the original quality. Convert the movie using “PMB” and save it to the disc. Movies recorded with Movie Mode set to [AVC HD 24M (FX)] cannot be save to a DVD disc or as an AVCHD disc. Save them to a Blu-ray disc.</td>
</tr>
<tr>
<td>MP4</td>
<td>MP4 (AVC) movies are recorded. Sets the recording method to MP4, which is suitable for WEB uploads and e-mail attachments. No discs can be created from MP4 movies, even if you use the supplied software “PMB”.</td>
</tr>
</tbody>
</table>

**Related Topic**

AVCHD format
AF Illuminator

The AF illuminator supplies fill light to focus more easily on a subject in dark surroundings. The AF illuminator emits red light allowing the camera to focus easily when the shutter button is pressed halfway, until the focus is locked. The \( \text{ON} \) indicator appears at this time.

1. Set the camera to shooting mode.

2. MENU \( \rightarrow \) (Settings) \( \rightarrow \) (Shooting Settings) \( \rightarrow \) [AF illuminator] \( \rightarrow \) desired mode

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto</td>
<td>Uses the AF illuminator.</td>
</tr>
<tr>
<td>Off</td>
<td>Does not use the AF illuminator.</td>
</tr>
</tbody>
</table>

Notes

- Focus is achieved as long as the AF illuminator light reaches the subject, regardless of whether light fails to reach the center of the subject.
- You cannot use the AF illuminator in the following situations:
  - In REC mode
  - In Sweep Panorama mode
  - In Underwater iSweep Panorama mode (DSC-TX10)
  - When \( \text{ } \) (Landscape), \( \text{ } \) (Twilight), \( \text{ } \) (Pet), \( \text{ } \) (Fireworks) or \( \text{ } \) (Hi-Speed Shutter) mode is selected in Scene Selection.
  - When [Housing] is set to [On]. (DSC-TX10)
  - When [Self-Timer] is set to [Self-portrait One Person] or [Self-portrait Two People].
- When you use the AF illuminator, the normal AF range finder frame is disabled and a new AF range finder frame is displayed by a dotted line. AF operates with priority on subjects located near the center of the frame.
- The AF illuminator emits very bright light. Although there is no health hazard, do not look directly into the AF illuminator emitter at close range.
Grid Line

With reference to the grid lines, you can easily set a subject in a horizontal/vertical position.

1. Set the camera to shooting mode.
2. MENU → (Settings) → (Shooting Settings) → [Grid Line] → desired mode

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>On</td>
<td>Displays the grid lines. The grid lines are not recorded.</td>
</tr>
<tr>
<td>Off</td>
<td>Does not display the grid lines.</td>
</tr>
</tbody>
</table>
Digital Zoom

Total zoom scale when using Smart zoom (including optical zoom 4×)

Selects the digital zoom mode. The camera enlarges the image using optical zoom (up to 4×). When the zoom scale is exceeded, the camera uses either smart or precision digital zoom.

1. Set the camera to shooting mode.
2. MENU → (Settings) → (Shooting Settings) → [Digital Zoom] → desired mode

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smart</td>
<td>Enlarges the image digitally within the range where the image will not be distorted, according to the image size (Smart zoom).</td>
</tr>
<tr>
<td>Precision</td>
<td>Enlarges all image sizes by the total zoom scale of approximately 16×, including the optical zoom 4×. However, note that the image quality deteriorates when the optical zoom scale is exceeded (Precision digital zoom).</td>
</tr>
<tr>
<td>Off</td>
<td>Does not use the digital zoom.</td>
</tr>
</tbody>
</table>

Notes

- The Digital Zoom function does not operate in the following situations:
  - In Sweep Panorama mode
  - In Underwater iSweep Panorama mode (DSC-TX10)
  - In Superior Auto mode
  - In Background Defocus mode
  - In 3D Shooting mode
  - When Scene Selection is set to (Backlight Correction HDR)
  - When the Smile Shutter function is activated.
  - When [Self-Timer] is set to [Self-portrait One Person] or [Self-portrait Two People].
- The Smart zoom is not available when the image size is set to [16M] or [16:9(12M)].
- The Smart zoom is not available when recording movies.
- The Face Detection function does not work when using the digital zoom.

Total zoom scale when using Smart zoom (including optical zoom 4×)

The supported zoom ratio differs depending on the image size.

<table>
<thead>
<tr>
<th>Size</th>
<th>Total zoom scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>10M</td>
<td>Approx. 5.1×</td>
</tr>
<tr>
<td>5M</td>
<td>Approx. 7.1×</td>
</tr>
<tr>
<td>Display Format</td>
<td>Zoom Factor</td>
</tr>
<tr>
<td>----------------</td>
<td>-------------</td>
</tr>
<tr>
<td>VGA</td>
<td>Approx. 28×</td>
</tr>
<tr>
<td>16:9 (2M)</td>
<td>Approx. 9.6×</td>
</tr>
</tbody>
</table>
Wind Noise Reduct.

Reduces the noise of the wind when shooting movies.

1. Set the camera to shooting mode.
2. MENU → (Settings) → (Shooting Settings) → [Wind Noise Reduct.] → desired mode

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>On</td>
<td>Reduces the noise of the wind.</td>
</tr>
<tr>
<td>Off</td>
<td>Does not reduce the noise of the wind.</td>
</tr>
</tbody>
</table>

**Note**

- If [Wind Noise Reduct.] is set to [On] even though the wind is not blowing strongly, the recorded sounds other than the wind may be hard to hear.
Scene Recog. Guide

You can select whether or not the guide is displayed next to the Scene Recognition icon when Scene Recognition is activated.

1. Set the camera to the shooting mode.

2. MENU → (Settings) → (Shooting Settings) → [Scene Recog. Guide] → desired mode

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>On</td>
<td>Displays the Scene Recognition Guide.</td>
</tr>
<tr>
<td>Off</td>
<td>Does not display the Scene Recognition Guide.</td>
</tr>
</tbody>
</table>
Red Eye Reduction

The flash strobes two or more times before shooting to reduce the red-eye phenomenon when using the flash.

1. Set the camera to shooting mode.

2. MENU → (Settings) → (Shooting Settings) → [Red Eye Reduction] → desired mode

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto</td>
<td>When the Face Detection function is activated, the flash strobes automatically to reduce the red-eye phenomenon.</td>
</tr>
<tr>
<td>On</td>
<td>The flash always strobes to reduce the red-eye phenomenon.</td>
</tr>
<tr>
<td>Off</td>
<td>Does not use Red Eye Reduction.</td>
</tr>
</tbody>
</table>

What causes the red-eye phenomenon?
Pupils become dilated in dark environments. Flash light is reflected off the blood vessels at the back of the eye (retina) (A), causing the “red-eye” phenomenon.

Other ways to reduce red-eye
- Select (High Sensitivity) mode in Scene Selection. (The flash is set to [Off] automatically.)
- When the eyes of the subject turn out red, correct the image with [Retouch] → [Red Eye Correction] on the viewing menu or with the supplied software “PMB”.

Notes
- To avoid blurring of images, hold the camera firmly until the shutter is released. It usually takes a second until the shutter is released, and also be sure not to allow the subject to move during this period.
- Red Eye Reduction may not produce the desired effects. It depends on individual differences and conditions, such as distance to the subject, or if the subject looked away from the pre-strobe.
- If you do not use the Face Detection function, Red Eye Reduction does not work, even when you select [Auto].
- [Red Eye Reduction] is set to [Off] in the following situations:
  - In Background Defocus mode
  - In 3D shooting mode
  - When (Anti Motion Blur), (Hand-held Twilight), (High Sensitivity), (Gourmet), (Pet) or (Fireworks) mode is selected in Scene Selection.
  - When Smile Shutter function is activated.
Blink Alert

When an image with the subject’s eyes closed is recorded while Face Detection is activated, the message “Blinked eye detected” is displayed.

1. Set the camera to shooting mode.

2. MENU → (Settings) → (Shooting Settings) → [Blink Alert] → desired mode

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto</td>
<td>Displays the “Blinked eye detected” message.</td>
</tr>
<tr>
<td>Off</td>
<td>Does not display the message.</td>
</tr>
</tbody>
</table>
Write Date

Sets whether to record a shooting date on the still image.

1. Set the camera to shooting mode.
2. MENU → (Settings) → (Shooting Settings) → [Write Date] → desired mode

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>On ( )</td>
<td>Records a shooting date. When [On] is selected, the mark will appear on the bottom right of the screen while shooting. However, in some shooting modes that cannot record dates on images, the mark will disappear.</td>
</tr>
<tr>
<td>Off</td>
<td>Does not record a shooting date.</td>
</tr>
</tbody>
</table>

Notes
- You cannot record dates in the following situations:
  - In Movie Mode
  - In Dual Rec mode
  - In iSweep Panorama
  - In Burst shooting mode
  - In Easy Mode
  - In 3D shooting mode
- If you shot images with the date once, you cannot delete the date from the images later.
- The dates are doubly printed, if you set the camera to superimpose the dates when printing.
- The recorded time of the image cannot be superimposed on the image.
Beep

Selects the sound produced when you operate the camera.

1. MENU → \(\text{Settings}\) → \(\text{Main Settings}\) → [Beep] → desired mode

<table>
<thead>
<tr>
<th>Shutter</th>
<th>On</th>
<th>Off</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turns on the shutter sound when you press the shutter button.</td>
<td>Turns on the beep / shutter sound when you operate the touch panel / press the shutter button.</td>
<td>Turns off the beep / shutter sound.</td>
</tr>
</tbody>
</table>
Panel Brightness

You can select the brightness level from 1 to 5. The screen becomes brighter as the number rises. When you use the camera in bright outside light, select a higher number to see the screen easier.

1. MENU → (Settings) → (Main Settings) → [Panel Brightness]

2. Touch + / - to adjust the brightness → [OK]

You can also adjust the panel brightness by touching ● of the adjustment bar and dragging to the left / right.

**Notes**

- The brighter the screen, the faster the battery pack runs out.
- The screen grows dark if you do not operate the camera while the power is on.
- When the high-temperature indicator (■) is displayed, the screen may grow dark regardless of the settings. [Details]

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Language Setting

Selects the language to be used in the menu items, warnings and messages.

1. MENU → (Settings) → (Main Settings) → [Language Setting]
Display color

Sets the color of the screen display.

1. MENU → (Settings) → (Main Settings) → [Display color] → desired mode

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td>Sets the background color of the screen.</td>
</tr>
<tr>
<td>White</td>
<td></td>
</tr>
<tr>
<td>Pink</td>
<td></td>
</tr>
</tbody>
</table>

Copyright 2011 Sony Corporation
Demo Mode

You can set whether to use a demonstration of Smile Shutter or movies in AVCHD view. When there is no need to view a demonstration, set to [Off].

1. MENU → (Settings) → (Main Settings) → [Demo Mode] → desired mode → [OK]

| Demo Mode1 | A demonstration of the shooting functions will be performed. |
| Demo Mode2 | Automatically starts the Smile Shutter demonstration when no operation is performed for 15 seconds. |
| Demo Mode3 | If no operation is performed for a set period of time while the camera is connected to an HD TV, a demonstration of movies in AVCHD view playback will automatically be performed. |
| Off       | Does not perform a demonstration. |

Notes

- Pressing the shutter button during the Smile Shutter demonstration operates the shutter, but no image is recorded.
- During a demonstration, if the number of images saved in the internal memory increases, the camera may automatically delete the images. It is recommended to make a backup copy of the images on the internal memory before a demonstration.
- Movie in AVCHD view description as follows:
  - DSC-TX10: AVCHD-format movies
  - DSC-TX100 / TX100V: Recorded with [Movie format] set to [AVCHD 50i/50p] or [AVCHD 60i/60p]. [Details]
Initialize

Initializes the setting to the default setting. Even if you execute [Initialize] or [Reset REC Settings], the images are retained.

1. MENU →  (Settings) →  (Main Settings) → [Initialize] → [OK]

Note
- Be sure not to turn off the camera while initializing.
HDMI Resolution (DSC-TX100 / TX100V only)

When you connect the camera to a High Definition (HD) TV with HDMI terminals using an HDMI cable (sold separately), you can select the HDMI Resolution to output images to the TV.

1. MENU →  
   (Settings) →  
   (Main Settings) →  [HDMI Resolution] → desired mode

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto</td>
<td>The camera automatically recognizes an HD TV and sets the output resolution.</td>
</tr>
<tr>
<td>1080p</td>
<td>Outputs signals in HD picture quality (1080p).</td>
</tr>
<tr>
<td>1080i</td>
<td>Outputs signals in HD picture quality (1080i).</td>
</tr>
</tbody>
</table>

**Note**
- If you cannot display the screen properly with the [Auto] setting, select either [1080i] or [1080p] depending on the TV to be connected.
## CTRL FOR HDMI

This setting allows (TV) remote control of a camera that is connected to a “BRAVIA” Sync TV using the HDMI Cable (sold separately). [Details]

1. MENU → (Settings) → (Main Settings) → [CTRL FOR HDMI] → desired mode

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>On</td>
<td>Enables remote-controlled operation.</td>
</tr>
<tr>
<td>Off</td>
<td>Disables remote-controlled operation.</td>
</tr>
</tbody>
</table>

### Note
- You can operate the camera with the remote controller of your TV by connecting your camera to a “BRAVIA” Sync-compatible TV.

### Related Topic
- Viewing an image on a “BRAVIA” Sync-compatible TV
Housing (DSC-TX10 only)

Displays the dedicated operation buttons when the camera is installed in a housing (Marine Pack). Refer also to the operating instructions supplied with the housing.

1. MENU → 🎥 (Settings) → ☰ (Main Settings) → [Housing] → desired mode

<table>
<thead>
<tr>
<th>Off</th>
<th>Changes the function of the buttons.</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑ On</td>
<td>Does not change any functions.</td>
</tr>
</tbody>
</table>

Notes
- Objects cannot be brought into focus by touching the screen.
- Some functions are limited, and the icon positions on the screen change.
- When [Housing] is set to [On], [View Mode] is set to [Date View].
USB Connect Setting

Selects the USB mode when connecting the camera to a computer or a USB device using the multi-use terminal USB cable.

1. **MENU** → (Settings) → [Main Settings] → [USB Connect Setting] → desired mode

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto</td>
<td>Depending on the computer or other USB devices you connect to the camera, the connection mode is automatically selected from [MTP] or [Mass Storage]. When you use Windows 7, [MTP] is selected and Windows 7-specific functions become available.</td>
</tr>
<tr>
<td>MTP</td>
<td>Establishes a MTP connection between the camera and a computer or other USB devices. When you use Windows 7, [MTP] is selected and Windows 7-specific functions become available. When you use other operation systems (Vista/XP, MacOS X), the AutoPlay Wizard appears, and the still images in the recording folder on the camera are imported to the computer.</td>
</tr>
<tr>
<td>Mass Storage</td>
<td>Establishes a Mass Storage connection between the camera and a computer or other USB device.</td>
</tr>
</tbody>
</table>

**Note**

- If Device Stage* does not appear when connecting the camera to a Windows 7, set [USB Connect Setting] to [Auto].

* Device stage is a manageable menu (Windows 7-specific function) for camera connection, etc.
USB Power Supply

Set whether to use the USB power supplied function when the camera is connected to a computer or a USB device using the multi-use terminal USB cable.

1. MENU → (Settings) → (Main Settings) → [USB Power Supply] → desired mode

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>On</td>
<td>The power is supplied when connected using the multi-use terminal USB cable.</td>
</tr>
<tr>
<td>Off</td>
<td>Disables USB power supplied function even if you connect the camera to a device such as a computer using a multi-use terminal USB cable.</td>
</tr>
</tbody>
</table>
LUN Setting

Sets the display method for the recording media displayed on a computer screen or other monitor when the camera is connected with a computer or AV component using a USB connection.

1. MENU → (Settings) → (Main Settings) → [LUN Setting] → desired mode

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi</td>
<td>The images both on the memory card and in the internal memory are displayed. Select this setting when you connect the camera to a computer.</td>
</tr>
<tr>
<td>Single</td>
<td>When the memory card is inserted into the camera, the images on the memory card are displayed; when it is not inserted, the images in the internal memory are displayed. Select this setting in cases where the images of both the memory card and the internal memory are not displayed when the camera is connected to a device other than a computer.</td>
</tr>
</tbody>
</table>

Note

- Set [LUN Setting] to [Multi] when uploading images to a media service using “PMB Portable”.
Download Music

You can change background music tracks using “Music Transfer”.

1. MENU → (Settings) → (Main Settings) → [Download Music]
   The message “Connect to PC” is displayed.

2. Make a USB connection between the camera and a computer, then start “Music Transfer”.
3. Follow the instructions on the screen to change music files.
Empty Music

You can delete all the background music files stored in the camera. It can be used in cases such as when the background music files are damaged and cannot be played.

1. MENU → (Settings) → (Main Settings) → [Empty Music] → [OK]

Restoring the music preset at the factory to the camera

You can use “Music Transfer” to reset music files to the preset ones. For details on using “Music Transfer”, see the help in “Music Transfer”.

1. Execute [Download Music], then make a USB connection between the camera and a computer.

2. Start “Music Transfer”, then restore the default music.
GPS setting (DSC-TX100V only)

Checking triangulating status and shooting direction
The built-in GPS and direction sensor of this camera acquire the information on location or the shooting direction, and record it on images. Using the supplied software "PMB", you can import photos and movies recorded with location and shooting direction information to a computer and enjoy viewing them with a map which shows their shooting location. See "PMB Help" for details.

1. MENU → (Settings) → (Main Settings) → [GPS setting] → desired mode

<table>
<thead>
<tr>
<th>On</th>
<th>GPS direction sensor is activated.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>GPS direction sensor is inactivated. Set this to not record location and direction information.</td>
</tr>
</tbody>
</table>

To receive a GPS signal
- Triangulate when the lens cover is opened.
- Proper triangulation is not possible indoors or near tall buildings.
- Use your camera in an open area outside, and turn on your camera again.
- If no triangulating icon appears, even if you wait for several minutes, you may be in an areas where GPS signal reception is difficult or impossible.
- Use your camera in an open area outside, or record images in the situation as is in which case, location information is not recorded.

Notes
- The shooting direction is not recorded when shooting movies.
- During take off and landing of an airplane, turn off the camera, as you will be instructed to do by the onboard announcement.
- Use GPS in accordance with the regulations of the place or situation.
- It can take up to several minutes to acquire location information when you use GPS for the first time or use it infrequently. Triangulating time can be shortened by taking in GPS assist data. [Details]
- The information on the shooting direction acquired by this camera is based on magnetic
north (the direction a compass needle points).

- If the camera is in close proximity to a magnetic source or a metal, an error may arise in the direction sensor. Keep the camera away from a magnetic source or a metal, if at all possible.
- The correct shooting direction may not be recorded or displayed in the following cases:
  - Near a building, a footbridge, an iron bridge, a vehicle, an iron tower
  - Near electric apparatus, such as a television, speaker, refrigerator, mobile phone, headphones
  - Near a steel desk or steel chair, etc.
- Direction information will become unstable if this camera is pointed upwards.
- In searching the satellite positions, or triangulating, its may fail when you put your fingers on the GPS receiver.

### Checking triangulating status and shooting direction

The indicator changes according to the strength of GPS signal reception when GPS is activated. The triangulating status can also be checked using [Position Information]. [Details]

You can check the shooting direction with the direction icon displayed on the screen.

<table>
<thead>
<tr>
<th>Triangulating status</th>
<th>GPS indicators</th>
<th>GPS reception status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>No indicator</td>
<td>[GPS setting] is set to [Off] or an error occurred.</td>
</tr>
<tr>
<td>Difficult</td>
<td>NOGPS SIGNAL</td>
<td>Your camera cannot find a GPS signal, therefore, it cannot acquire location information. Use your camera in an open area.</td>
</tr>
<tr>
<td>Searching</td>
<td></td>
<td>Searching for GPS satellites. It may take several minutes to start triangulating.</td>
</tr>
<tr>
<td>Triangulating</td>
<td></td>
<td>Your camera is receiving a GPS signal, and can acquire location information.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Shooting direction</th>
<th>Indicators</th>
</tr>
</thead>
<tbody>
<tr>
<td>North</td>
<td>🚩</td>
</tr>
<tr>
<td>West</td>
<td>🚩</td>
</tr>
<tr>
<td>South</td>
<td>🚩</td>
</tr>
<tr>
<td>East</td>
<td>🚩</td>
</tr>
</tbody>
</table>

### Related Topic

Scene Recognition
GPS setting (DSC-TX100V only)
GPS assist data (DSC-TX100V only)
Auto Clock ADJ (DSC-TX100V only)
GPS (DSC-TX100V only)
GPS assist data (DSC-TX100V only)

The time for the GPS acquiring location information can be shortened by taking in GPS assist data. The state of GPS assist data can be checked on the camera. If connection via internet is made using the supplied software, “PMB” or “PMB Portable”, the GPS assist data can be updated automatically.

1. MENU → (Settings) → (Main Settings) → [GPS assist data]

Using GPS Support Tool
You can also update the GPS assist data by inserting a memory card into the computer. Starts up [GPS Support Tool] from (PMB Launcher), select the memory card drive from your computer, and then update the GPS assist data.

Notes
- If [Date & Time Setting] is not set, or set time is shifted greatly, the time for the GPS acquiring location information cannot be shortened.
- Set the date and time correctly by MENU → (Settings) → [Date & Time Setting].
- If the term of validity of GPS assist data has run out, the time until you can record location information cannot be shortened.

Related Topic
GPS setting (DSC-TX100V only)
GPS (DSC-TX100V only)
TransferJet

You can select TransferJet communication settings. TransferJet is a close-up, wireless transfer technology that allows data to be transferred by closely aligning two products that you want to communicate with each other. To find out whether your camera is equipped with the TransferJet function, check for the (TransferJet) mark on the bottom of the camera.

Using a Memory Stick with TransferJet (sold separately) allows images to be transferred between TransferJet-compatible devices.

For more details on TransferJet, see the Operating Instructions supplied with Memory Stick with TransferJet.

1. MENU → (Settings) → (Main Settings) → [TransferJet] → desired mode

<table>
<thead>
<tr>
<th>TransferJet Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>On</td>
<td>Communicates using TransferJet.</td>
</tr>
<tr>
<td>Off</td>
<td>Does not communicate using TransferJet.</td>
</tr>
</tbody>
</table>

💡 What is TransferJet?

TransferJet allows you to share images by sending and receiving image data. Insert a Memory Stick with TransferJet in your camera and align two (TransferJet) marks of the camera and another device that supports this function.

For details on image transfer, see [Details].

**Notes**

- In Easy Mode, [TransferJet] is fixed to [Off].
- While aboard an airplane, set [TransferJet] to [Off]. In addition, always follow all regulations governing the location in which the camera is being used.
- The connection is cut if transfer cannot be made within about 30 seconds. If this happens, select [Yes] and again align two (TransferJet) marks on the camera and another device.
- Memory Stick with TransferJet and camera models with TransferJet are not sold in some countries and regions due to local laws and regulations.
Set the [TransferJet] function to [Off] in countries and regions other than where you purchased your camera. Depending on the country or region, if you use the TransferJet function, you may be liable due to local restrictions on transmission of electromagnetic waves.

**Related Topic**

- Send by TransferJet
- TransferJet standard
Eye-Fi

Transferring image data using the Eye-Fi card

Sets whether to use the upload function of an Eye-Fi card (commercially available), when you use the Eye-Fi card with this camera.

[Eye-Fi] is displayed only when the Eye-Fi card is inserted in the camera.

1. MENU → (Settings) → (Main Settings) → [Eye-Fi] → desired mode

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>On</td>
<td>Uses the upload function. The Eye-Fi mode display icon on the screen will change depending on the communication mode of the Eye-Fi card.</td>
</tr>
<tr>
<td></td>
<td>‪Eye-Fi card is in standby mode. There is no image to be sent.</td>
</tr>
<tr>
<td></td>
<td>‪Eye-Fi card is in upload standby mode.</td>
</tr>
<tr>
<td></td>
<td>‪Eye-Fi card is in connecting mode.</td>
</tr>
<tr>
<td></td>
<td>‪Eye-Fi card is uploading images.</td>
</tr>
<tr>
<td></td>
<td>‪An error has occurred.</td>
</tr>
<tr>
<td>Off</td>
<td>Does not use the upload function.</td>
</tr>
</tbody>
</table>

Notes

- As of December 2010, Eye-Fi cards are sold in the U.S.A., Canada, Japan and some countries in the European Union.
- For more information on the Eye-Fi card, contact the manufacturer or seller of Eye-Fi cards directly.
- Eye-Fi cards are permitted only in the countries and regions in which they were purchased. You may be held liable due to local restrictions.
- The Eye-Fi card has a wireless LAN function. Do not insert the Eye-Fi card where wireless LAN is prohibited, such as while aboard an airplane. If the Eye-Fi card is inserted, set [Eye-Fi] to [Off]. When the uploading function of the Eye-Fi card is set to [Off], ‪OFF‬ is displayed on the screen.

Transferring image data using the Eye-Fi card

1. Set the wireless LAN access point settings or the transferring direction settings of the Eye-Fi card.
   For details, refer to the operating instructions supplied with the Eye-Fi card.

2. After the settings are finished, insert the Eye-Fi card into the camera, and shoot the images.
   The recorded images are automatically transferred via the wireless LAN to the PC, etc.
Notes

- When you use a new Eye-Fi card for the first time, copy the install file of the PC application written in the Eye-Fi card first, then format the card.
- Before using the Eye-Fi card, upgrade the firmware of the Eye-Fi card to the latest version. For details on version upgrades, refer to the operating instructions supplied with the Eye-Fi card.
- When uploading image data, [Power Save] is not available.
- If the \( \text{I} \) (error) icon is displayed, eject and re-insert the Eye-Fi card, or turn the power of the camera off and on again. If the \( \text{I} \) (error) icon is still displayed, the Eye-Fi card may be corrupted. For details, contact Eye-Fi Inc..
- Wireless LAN communication may be interrupted by the other communication devices. If data reception is insufficient, move the camera closer to the access point.
- For details on content that can be uploaded, refer to the operating instructions supplied with the Eye-Fi card.
- Some Eye-Fi cards have an “Endless Mode.” This product does not support “Endless Mode.” Make sure that Eye-Fi cards that you insert into this product have “Eye-Fi” turned off. For details on setting “Endless Mode”, refer to the operating instructions supplied with the Eye-Fi card.
**Power Save**

Sets the length of time until the screen goes dark and the time until the camera turns off. If you do not operate the camera for a certain period of time while the power is on using the battery pack, the screen goes dark and the camera later turns off automatically to prevent wearing down the battery pack (Auto power-off function).

1. **MENU** → (Settings) → (Main Settings) → [Power Save] → desired mode

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stamina</td>
<td>Proactively saves the battery power. If the camera is not operated for a certain period of time, the power turns off automatically. In shooting mode, the screen automatically goes dark before the power turns off.</td>
</tr>
<tr>
<td>✔️ Standard</td>
<td>If the camera is not operated for a certain period of time, the power turns off automatically. In shooting mode, the screen automatically goes dark before the power turns off. It takes longer before the power turns off than when set to [Stamina].</td>
</tr>
<tr>
<td>Off</td>
<td>Does not use the Auto power-off function.</td>
</tr>
</tbody>
</table>

**Notes**

- If the camera is not operated for a certain period of time, the screen automatically goes dark to prevent burn-in on the screen even though the [Power Save] function is set to [Off]. The camera is not turned off even in this state. (DSC-TX100 / TX100V)
- The camera does not save the power in the following situations:
  - During slideshow
  - In Movie Mode
  - When connecting with the computer / TV.
Format

Formats the memory card or the internal memory.
When you use a memory card with this camera for the first time, it is recommended to format the card using the camera for stable performance of the memory card before shooting. Note that formatting permanently erases all data on the memory card, and is unrecoverable. Save precious data on a computer, etc.

1. MENU → (Settings) → (Memory Card Tool) or (Internal Memory Tool) → [Format] → [OK]

Note
- Note that formatting permanently erases all data including even protected images.
Create REC.Folder

Creates a folder in a memory card for recording images. Images are recorded in the newly created folder until you create another folder or select another recording folder.

1. MENU → (Settings) → (Memory Card Tool) → [Create REC.Folder] → [OK]

On the folders

After a new folder is created, you can change the storage destination folder. [Details]

Notes

- This item is not displayed when the internal memory is used to record images.
- When you insert a memory card that was used with other equipment into the camera and shoot images, a new folder may be automatically created.
- Up to 4,000 images can be stored in one folder. When the folder capacity is exceeded, a new folder is automatically created.
Change REC.Folder

Changes the folder in the memory card that is currently used for recording images.

1. MENU → (Settings) → (Memory Card Tool) → [Change REC.Folder]

2. Select a folder with ▲ / ▼ → [OK].

Notes

- This item is not displayed when the internal memory is used to record images.
- You cannot select the folder with a number that has only " " " DCF" or " " " ANV01" as a recording folder.
- You cannot move recorded images to another folder.
Delete REC.Folder

Deletes a folder for recording images in a memory card.

1. MENU → [Settings] → (Memory Card Tool) → [Delete REC.Folder]

2. Select a folder with ▲ / ▼ → [OK].

Notes
- This item is not displayed when the internal memory is used to record images.
- If you delete the folder set as the recording folder using [Delete REC.Folder], the folder that has the largest folder number is selected as the next recording folder.
- If a folder contains protected images or files that cannot be played back by the camera, images other than these images are deleted and the folder will remain.
Copy

Copies all images in the internal memory to a memory card.

1. Insert a memory card with sufficient free capacity into the camera.
2. MENU → (Settings) → (Memory Card Tool) → [Copy] → [OK]

Notes

- Use a fully charged battery pack. If you attempt to copy image files using a battery pack with little remaining charge, the battery pack may run out, causing copying to fail or possibly corrupting the data.
- Images cannot be copied individually.
- The original images in the internal memory are retained even after copying. To delete the contents of the internal memory, remove the memory card after copying, then format the internal memory ([Format] in [Internal Memory Tool]).
- The data will be copied to the recording folder that is currently being used, with a number one higher than the largest data number in that folder. [Details]
File Number

Selects the method used to assign file numbers to images.

1. MENU → ꔰ (Settings) → ꔷ (Memory Card Tool) → [File Number] → desired mode

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>✔</td>
<td>Series</td>
</tr>
<tr>
<td></td>
<td>Reset</td>
</tr>
</tbody>
</table>

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Area Setting

DSC-TX10 / TX100
Adjusts the time to the local time of a selected area. Setting a frequently visited destination lets you easily adjust the time when you visit that destination.

1. MENU → [Settings] → [Clock Settings] → [Area Setting] → desired mode

2. Touch the [Destination] area.

3. Select the area using [ ] / [ ]

4. Touch Daylight Savings icon (A), then select Daylight Savings On/Off.

5. Touch [OK].

DSC-TX100V
Sets the area in which you are using this camera.
If you do not operate the camera for a certain period of time while the power is on and [Power Save] is set to [Off] or the camera is connected to AC adaptor to supply the power, the screen automatically goes dark to prevent burn-in on the screen. Touch the screen again to display.

1. MENU → (Settings) → (Clock Settings) → [Area Setting]
2. Select the area using $\uparrow$ / $\downarrow$.

3. Touch Daylight Savings icon, then select Daylight Savings On/Off.

4. Touch [OK].
## Date & Time Setting

Sets the date and time again.

1. MENU → (Settings) → (Clock Settings) → [Date & Time Setting] → desired mode

<table>
<thead>
<tr>
<th>Date &amp; Time Format</th>
<th>You can select the date and time display format.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer Time</td>
<td>You can select Daylight Savings [On]/[Off].</td>
</tr>
<tr>
<td>Date &amp; Time</td>
<td>You can set the date and time.</td>
</tr>
</tbody>
</table>
Auto Clock ADJ (DSC-TX100V only)

Your camera maintains correct clock time by using GPS to acquire time information during start up.

1. MENU → (Settings) → (Clock Settings) → [Auto Clock ADJ ] → desired mode

<table>
<thead>
<tr>
<th></th>
<th>On</th>
<th>Adjusts the clock automatically.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Off</td>
<td>Does not adjust the clock automatically.</td>
</tr>
</tbody>
</table>

Notes
- [Auto Clock ADJ ] is invalid if [GPS setting] is set to [Off].
- You must set [Date & Time Setting] on the camera before use.
- Depending on the area, the function may not work correctly.

Related Topic
- GPS setting (DSC-TX100V only)
- GPS (DSC-TX100V only)
Auto Area ADJ (DSC-TX100V only)

If a time-zone difference is detected, your camera adjusts to the area by using GPS automatically.

1. MENU → (Settings) → (Clock Settings) → [Auto Area ADJ] → desired mode

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>On</td>
<td>Adjusts the area automatically.</td>
</tr>
<tr>
<td>Off</td>
<td>Does not adjust the area automatically.</td>
</tr>
</tbody>
</table>

**Notes**
- [Auto Area ADJ] is invalid if [GPS setting] is set to [Off].
- You must set [Date & Time Setting] on the camera before use.
- Depending on the area, [Auto Area ADJ] may not work properly, in this case, set [Auto Area ADJ] is set to [Off].

**Related Topic**
- GPS setting (DSC-TX100V only)
- GPS (DSC-TX100V only)
Viewing an image on an HD TV using the HDMI Cable (sold separately)

Connect the camera to an HD (High Definition) TV that has an HDMI jack using the HDMI Cable (sold separately).

1. Turn off both the camera and the TV.
2. Connect the HDMI connector of the camera (A) and the HDMI jack of the TV (B) using an HDMI Cable (sold separately) (C).

**DSC-TX10**

3. Turn on the TV and set the input.
4. Press the (Playback) button to turn on the camera. Images shot with the camera appear on the TV. Touch and select the desired image with / on the screen.

**"PhotoTV HD"**

This camera is compatible with the "PhotoTV HD" standard.
By connecting a Sony TV compatible with “PhotoTV HD” using an HDMI Cable (sold separately), a whole new world of photos can be comfortably enjoyed in breathtaking Full HD quality.

- “PhotoTV HD” allows for a highly-detailed, photo-like expression of subtle textures and colors.

- When the camera is connected to a Sony TV compatible with Video A mode using an HDMI Cable, your TV is automatically set to the picture quality suitable for still images. When the setting of the TV is set to Video, the picture quality is set to that suitable for movies.

- When playing back movies in AVCHD view, it is recommended that you set [View Mode] to [AVCHD view].

- Movie in AVCHD view description as follows:
  - DSC-TX10: AVCHD-format movies
  - DSC-TX100 / TX100V: Recorded with [Movie format] set to [AVCHD 50i/50p] or [AVCHD 60i/60p]. [Details]

- For details, see the operating instructions of the TV.

**Notes**

- Images shot in [VGA] image size cannot be played back in the HD format.

- Set [HDMI Resolution] to [Auto], [1080p] or [1080i] in MENU → 🛡️ (Settings) → 📀 (Main Settings). (DSC-TX100 / TX100V)

- [Beep] is fixed to [Shutter].

- Do not connect the camera and equipment to be connected using both output terminals. When the camera and TV are connected using output terminals, no video or sound are produced. Such a connection can also cause problems with the camera and/or connected equipment.

- The camera may not work properly with some HD TVs. For example, you may not be able to view a video or hear sound from the HD TV.

- Use an HDMI Cable with the HDMI logo.

- Recording may automatically stop to protect the camera after a period of time if you are shooting movies when the camera and TV are connected by an HDMI Cable (sold separately).

**Related Topic**

**Viewing 3D images on a 3D TV**
Viewing an image on a “BRAVIA” Sync-compatible TV

When you use a TV that has “BRAVIA” Sync (compatible with SYNC MENU) support, you can operate the playback functions of the camera using the remote controller supplied with the TV by connecting the camera to the TV using an HDMI Cable (sold separately).

1. Connect the HDMI connector of the camera (A) and the HDMI jack of the TV (B) using an HDMI Cable (sold separately) (C).

DSC-TX10

2. Turn on the TV and set the input.

3. Press the (playback) button of the camera to turn on the camera.

4. MENU → (Settings) → (Main Settings) → [CTRL FOR HDMI] → [On]

5. Press the SYNC MENU button of the TV’s remote controller to select the desired mode.

<table>
<thead>
<tr>
<th>Menu</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slideshow</td>
<td></td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Image</td>
<td>Plays back a single image at a time.</td>
</tr>
<tr>
<td>Image Index</td>
<td>Displays multiple images at the same time.</td>
</tr>
<tr>
<td>3D Viewing</td>
<td>Plays back 3D images recorded in 3D shooting mode.</td>
</tr>
<tr>
<td>Delete</td>
<td>Deletes recorded images.</td>
</tr>
<tr>
<td>PB Zoom</td>
<td>Plays back enlarged images.</td>
</tr>
<tr>
<td>Wide Zoom</td>
<td>Plays back 4:3 aspect ratio still images in 16:9 aspect ratio when you view a single image. In that case, the top and bottom of the image will be slightly cropped.</td>
</tr>
<tr>
<td>Rotate</td>
<td>Rotates a still image.</td>
</tr>
<tr>
<td>View Mode</td>
<td>Selects the display format for viewing multiple images.</td>
</tr>
<tr>
<td>Exit</td>
<td>Exit from the playback operations.</td>
</tr>
</tbody>
</table>

**Notes**

- When the camera is connected to a TV set using an HDMI Cable, the functions that you can operate are limited.
- When you touch the screen of the camera while you operate the remote controller, the remote controller operation is temporarily interrupted.
- You can perform the operation of the camera with the remote controller of your TV by connecting your camera to a “BRAVIA” Sync-compatible TV. For details, see the operating instructions of the TV.
- If the camera functions in an undesired manner when you are controlling it using the TV’s remote controller, such as when connected via HDMI to another manufacturer’s TV, press MENU → (Settings) → (Main Settings) → [CTRL FOR HDMI] → [Off].
- When the camera is in Easy Mode, SYNC MENU does not appear on the TV.
Viewing an image on a Standard Definition (SD) TV

You can view images recorded on the camera in standard picture quality by connecting the camera to a Standard Definition (SD) TV using a USB/AV/DC IN Cable for multi-use terminal (sold separately). Refer also to the operating instructions supplied with the TV.

1. Turn off both the camera and the TV.
2. Connect the multi connector of the camera (A) and the audio/video input jacks on the TV (B) using a USB/AV/DC IN Cable for multi-use terminal (sold separately) (C).
3. Turn on the TV and set the input.
4. Press the (Playback) button to turn on the camera. Images shot with the camera appear on the TV. Touch displayed on the screen of this camera to select the desired image.
Recommended computer environment (Windows)

The following computer environment is recommended when using the supplied software “PMB”, “Music Transfer” and “PMB Portable”, and when importing images via a USB connection.

<table>
<thead>
<tr>
<th>OS (pre-installed)</th>
<th>Microsoft Windows XP* SP3/Windows Vista SP2/Windows 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Others</td>
<td>CPU: Intel Pentium III 800 MHz or faster (For playing/editing High Definition movies: Intel Core Duo 1.66 GHz or faster/Intel Core 2 Duo 1.66 GHz or faster (Intel Core 2 Duo 2.26 GHz or faster is required when processing HD FX/HD FH movies)) Intel Core2 Duo 2.40 GHz or faster is required when processing HD PS. (DSC-TX100 / TX100V) Memory: 512 MB or more (For playing/editing High Definition movies: 1 GB or more) Hard Disk: Disk space required for installation—approximately 500 MB Display: Screen resolution: 1,024 × 768 dots or more</td>
</tr>
</tbody>
</table>

* 64-bit editions and Starter (Edition) are not supported.

Applications Image Mastering API (IMAPI) Ver.2.0 or later is required to use the function for creating discs.

Notes

- Operation is not assured in an environment based on an upgrade of the operating systems described above or in a multi-boot environment.
- If you connect two or more USB devices to a single computer at the same time including this camera, may not operate, depending on the types of USB devices you are using.
- Connecting the camera using a USB interface that is compatible with Hi-Speed USB (USB 2.0) allows advanced transfer (high speed transfer), as the camera is compatible with Hi-Speed USB (USB 2.0).
- When your computer resumes activity from suspend or sleep mode, communication between the camera and your computer may not recover at the same time.
Recommended computer environment (Macintosh)

The following computer environment is recommended when using “Music Transfer” and “PMB Portable” and when importing images via a USB connection.

<table>
<thead>
<tr>
<th>OS (pre-installed)</th>
<th>USB Connection: Mac OS X (v10.3 to v10.6)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Music Transfer/PMB Portable: Mac OS X* (v10.4 to v10.6)</td>
</tr>
</tbody>
</table>

* Equipped with Intel processor

Notes
- Operation is not assured in an environment based on an upgrade of the operating systems described above or in a multi-boot environment.
- If you connect two or more USB devices to a single computer at the same time including this camera, may not operate, depending on the types of USB devices you are using.
- Connecting the camera using a USB interface that is compatible with Hi-Speed USB (USB 2.0) allows advanced transfer (high speed transfer), as the camera is compatible with Hi-Speed USB (USB 2.0).
- When your computer resumes activity from suspend or sleep mode, communication between the camera and your computer may not recover at the same time.
“PMB (Picture Motion Browser)”

- “PMB” allows you to import images shot with the camera to a computer for display. Make a USB connection between the camera and your computer, and click [Import].
- Images on a computer can be exported to a memory card, and displayed on the camera. Make a USB connection between the camera and your computer, click [Export] → [Easy Export (PC Sync)] in the [Manipulate] menu, and click [Export].
- You can save and print images with the date.
- You can display images stored on a computer by shooting date in a calendar display.
- You can correct (Red Eye Correction, etc.) still images, and change the shooting date and time.
- Blu-ray discs, AVCHD discs and DVD-Video discs can be created from movies in AVCHD view imported to a computer. (An internet connection is required when creating a Blu-ray disc or a DVD-Video disc for the first time.) However, movies recorded with Movie Mode set to [AVCHD 28M (PS)] (DSC-TX100 / TX100V) cannot be saved to a disc without changing the original quality. Convert the movie using “PMB” and save it to the disc. Movies recorded with Movie Mode set to [AVCHD 24M (FX)] cannot be save to a DVD disc or an AVCHD disc. Save them to a Blu-ray disc.
- You can upload images to a network service. (An internet connection environment is required.)
- You can import photos and movies recorded with location and shooting direction information to a computer and enjoy viewing them with a map which shows their shooting location (DSC-TX100V only).
- For other details, see (PMB Help).
- Movie in AVCHD view description as follows:
  - DSC-TX10: AVCHD-format movies
  - DSC-TX100 / TX100V: Recorded with [Movie format] set to [AVCHD 50i/50p] or [AVCHD 60i/60p]. [Details]
“Music Transfer”

“Music Transfer” allows you to replace the Music files provided in the camera at the factory with your favorite tracks, and to delete and add Music files.
You can also restore the tracks stored at the factory to your camera.
- The following track types can be imported using “Music Transfer”.
  - MP3 files stored on the hard disk of your computer
  - Music CD tracks
  - Preset-music saved on the camera
- Before starting up “Music Transfer”, select MENU → (Settings) → (Main Settings) → [Download Music], and connect the camera to the computer.
For other details, see the help in “Music Transfer”.

Related Topic
Download Music
Empty Music
Installing “PMB” and “Music Transfer” (Windows)

1. Turn on your computer and insert the CD-ROM (supplied) into the CD-ROM drive. The installation menu screen appears.
   - If it does not appear, double-click [Computer] (in Windows XP, [My Computer]) → (SONYPMB).
   - If the AutoPlay screen appears, select “Run Install.exe” and follow the instructions that appear on the screen to proceed with the installation.

2. Click [Install]. The “Choose Setup Language” screen appears.

3. Select the desired language, then proceed to the following screen. The “License Agreement” screen appears.

4. Carefully read the agreement, click the radio button ( ) to accept the terms of the agreement, and then click [Next].

5. Follow the instructions on the screen to complete the installation.
   - Restarting the computer may be necessary. When the restarting confirmation message appears, restart the computer following the instructions on the screen.
   - DirectX may be installed depending on the system environment of your computer.

6. Connect the camera to your computer when the connecting confirmation message appears.
   - When the camera is not connected to your computer, some functions cannot be used, such as importing images.

7. Remove the CD-ROM after the installation is complete.

8. Start up the software.
   - To start up “PMB,” click (PMB) on the desktop.
     For the detailed operation method, see the following “PMB” support page (English only): http://www.sony.co.jp/pmb-se/
     or click (PMB Help).
   - To start up “PMB” from the Start menu, select [Start] → [All Programs] → (PMB).
   - If “PMB” was installed on your computer and if you re-install “PMB” using the supplied CD-ROM, you can start up all the applications from “PMB Launcher.” To start up “PMB Launcher,” double-click (PMB Launcher) on the desktop.

Notes
- Log on as Administrator.
- If “PMB” has been already installed on your computer and that “PMB” version number is lower than that of the supplied CD-ROM, re-install “PMB” using the supplied CD-ROM.
- If the version number is higher than that of the supplied CD-ROM, you do not need to re-install “PMB”. When you connect the camera and the computer via USB cable, the available “PMB” function is activated.
- If “PMB” has already been installed on your computer and that “PMB” version number is lower than 5.0, some functions may become invalid after you install “PMB” using the supplied CD-ROM. Also, you can start up “PMB” or other various software from “PMB Launcher” installed at the same time. To start up “PMB Launcher” double-click (PMB Launcher) on the desktop.
Installing “Music Transfer” (Macintosh)

1. Turn on your Macintosh computer, and insert the CD-ROM (supplied) into the CD-ROM drive.
2. Double-click (SONYPMB).

Notes
- “PMB” is not compatible with Macintosh computers.
- Shut down all other application software before you install “Music Transfer”.
- For installation, you need to log in as Administrator.
Connecting the camera to the computer

1. Connect the camera to your computer using a multi-use terminal USB cable (supplied) (A).
   - When a USB connection is established for the first time, your computer automatically runs a program to recognize the camera. Wait for a while.

**DSC-TX10**

**DSC-TX100 / TX100V**

**Related Topic**
- USB Connect Setting
- LUN Setting
Importing images to a computer (Windows)

“PMB” allows you to easily import images. For details on “PMB” functions, see the “PMB Help”.

Importing images to a computer without using “PMB”

When the AutoPlay Wizard appears after making a USB connection between the camera and a computer, click [Open folder to view files] → [OK] → [DCIM] or [MP_ROOT] → copy the desired images to the computer.

Notes

- Use “PMB” for operations such as when importing movies in AVCHD view to a computer.
- If operations are performed on an movies in AVCHD view or folder on the camera from a computer while the camera is connected to a computer, it may destroy the image file or playback may become impossible. Do not delete or copy movies in AVCHD view on the camera’s memory card from a computer. Sony bears no responsibility for the result of operations of this type.
- The camera creates a 3D image by combining a JPEG file with an MPO file. If you delete either file on a computer, you cannot playback the 3D image.
- Use “PMB” to import movies with GPS location information to a computer (DSC-TX100V).
- Movie in AVCHD view description as follows:
  DSC-TX10: AVCHD-format movies
  DSC-TX100 / TX100V: Recorded with [Movie format] set to [AVCHD 50i/50p] or [AVCHD 60i/60p]. [Details]
Importing images to a computer (Macintosh)

1. Connect the camera to your Macintosh computer first. Double-click the newly recognized icon on the desktop → the folder where the images you want to import are stored.

2. Drag and drop the image files to the hard disk icon. The image files are copied to the hard disk.

3. Double-click the hard disk icon → the desired image file in the folder containing the copied files. The image is displayed.

Notes
- If operations are performed on a movie in AVCHD view or folder on the camera from a computer while the camera is connected to a computer, it may destroy the image file or playback may become impossible. Do not delete or copy movies in AVCHD view on the camera’s memory card from a computer. Sony bears no responsibility for the result of operations of this type.
- The camera creates a 3D image by combining a JPEG file with an MPO file. If you delete either file on a computer, you cannot playback the 3D image.
- Movie in AVCHD view description as follows:
  DSC-TX10: AVCHD-format movies
  DSC-TX100 / TX100V: Recorded with [Movie format] set to [AVCHD 50i/50p] or [AVCHD 60i/60p]. [Details]
Deleting the USB connection

Perform the procedures from step 1 to 3 below before:
- Disconnecting the cable.
- Removing a memory card.
- Inserting a memory card into the camera after copying images from the internal memory.
- Turning off the camera.

1. Double-click the disconnect icon ( \ ) on the task tray.

   Windows Vista
   ![Windows Vista Disconnect Icon]

   Windows XP
   ![Windows XP Disconnect Icon]

2. Click (USB Mass Storage Device) ➔ [Stop].

3. Confirm the device on the confirmation window, then click [OK].

**Note**
- Drag and drop the icon of the memory card or the drive icon to the “Trash” icon beforehand when you use a Macintosh computer, and the camera is disconnected from the computer.
- The disconnect icon may not appear when you use a Windows 7 computer. In such a case, you can disconnect the camera from the computer without following the above steps.
This camera has a built-in application “PMB Portable”. You can use this application to do the following:

- You can easily upload images to a blog or other media service.
- You can upload images from a computer connected to the Internet even when you are away from home or the office.
- You can easily register the media services (such as blogs) you use frequently.

For details on “PMB Portable”, see the “PMB Portable” help.

Notes on “PMB Portable”

“PMB Portable” makes it possible to download the URLs of a number of websites from the server administered by Sony (the “Sony server”). In order to use “PMB Portable” to enjoy the benefits of the image uploading service or other services (the “services”) provided by these and other websites, you must consent to the following.

- Some websites require registration procedures and/or fees to use their services. In using such services, you must comply with the terms and conditions established by the websites concerned.
- Services may be terminated or changed in accordance with the convenience of the website operators. Sony will not be held responsible for any trouble occurring between the users and third parties or any inconvenience caused to users relating to the utilization of the services inclusive of the termination of or changes to such services.
- To view a website, you will be redirected to it by the Sony server. There may be times when you cannot access the website because of server maintenance or for other reasons.
- If the operation of the Sony server is to be terminated, you will be notified of the termination ahead of time on Sony’s website, etc.
- The URLs to which you are redirected by the Sony server and other information may be recorded for the purposes of improving Sony’s future products and services. However, no personal data will be recorded on such occasions.
Starting up “PMB Portable” (Windows)

For Windows, when using “PMB Portable” for the first time, you must select the language. Follow the procedure below to make the selection. Once the language selection has been made, steps 3 to 5 are unnecessary the next time you use “PMB Portable”.

1. Connect the camera to a computer.
   Windows 7: Activate Device Stage*.
   Macintosh: [PMBPORTABLE] appears.
   * Device Stage is a menu screen to manage the connected devices, such as a camera.
   (Equipped with Windows 7)

2. Click [PMB Portable].
   (In Windows XP, click [PMB Portable] → [OK].)
   Windows 7 / Windows XP / Windows Vista: Click [PMB Portable].
   Macintosh: Click [PMBP_Mac] in the [PMBPORTABLE] folder.
   The Language Selection screen appears.

3. Select the desired language, then click [OK].
   The Region Selection screen appears.

4. Select the appropriate [Region] and [Country/Area], and then click [OK].
   The User Agreement screen appears.

5. Read the agreement carefully. If you accept the terms of the agreement, click [I Agree].
   “PMB Portable” starts up.

Notes
- “PMB Portable” is not supported for movies in AVCHD view.
- Set [LUN Setting] in [Main Settings] to [Multi].
- In case you cannot start up “PMB Portable”, set [USB Connect Setting] to [Mass Storage].
- Always connect to a network when using “PMB Portable”.
- When uploading images over the Internet, the cache may remain in the computer being used depending on the service provider. This is also true when this camera is used for this purpose.
- When a bug occurs in “PMB Portable” or you delete “PMB Portable” by mistake, you can repair “PMB Portable” by downloading the PMB Portable installer from the website.
- If the Auto Play Wizard does not appear with Windows XP / Windows Vista, click [Computer] (in Windows XP, [My Computer]) → [PMBPORTABLE], and double-click [PMBP_Win.exe].
- If Device Stage does not activate with Windows 7, click [Computer] and double-click camera icon → media icon → [APPLICATION] → [PMBP_MTP.exe].
- Initial screen of Device Stage which does not contain specific information of the model may appear depending on settings of your computer with Windows 7. In such a case, download the latest information following the instruction on screen.
- It automatically switches to Mass Storage connection when starting up “PMB Portable” with Windows 7.
- Movie in AVCHD view description as follows:
  DSC-TX10: AVCHD-format movies
  DSC-TX100 / TX100V: Recorded with [Movie format] set to [AVCHD 50i/50p] or [AVCHD 60i/60p]. [Details]
Starting up “PMB Portable” (Macintosh)

1. Make a USB connection between the camera and a Macintosh computer. When you connect the camera and your computer, [PMBPORTABLE] appears on the desktop. Click [×] to close any unnecessary drives.


3. Select the appropriate [Region] and [Country/Area], and then click [OK]. The User Agreement screen appears.

4. Read the agreement carefully. If you accept the terms of the agreement, click [I Agree]. "PMB Portable" starts up.

Notes

- “PMB Portable” is not supported for movies in AVCHD view.
- Set [LUN Setting] in [Main Settings] to [Multi].
- In case you cannot start up “PMB Portable”, set [USB Connect Setting] to [Mass Storage].
- Always connect to a network when using “PMB Portable”.
- When uploading images over the Internet, the cache may remain in the computer being used depending on the service provider. This is also true when this camera is used for this purpose.
- When a bug occurs in “PMB Portable” or you delete “PMB Portable” by mistake, you can repair “PMB Portable” by downloading the PMB Portable installer from the website.
- Movie in AVCHD view description as follows:
  - DSC-TX10: AVCHD-format movies
  - DSC-TX100 / TX100V: Recorded with [Movie format] set to [AVCHD 50i/50p] or [AVCHD 60i/60p].
Selecting the method for creating a disc of movies

Characteristics of each type of disc
You can create a disc from movies in AVCHD view that have been recorded with this camera. Select the method that suits your disc player.

For details on the method for creating a disc using "PMB", see “PMB Help.”

To import movies into a PC, see (Windows) [Details]/(Macintosh) [Details].

<table>
<thead>
<tr>
<th>Player</th>
<th>Creation method</th>
<th>Disc type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blu-ray disc playback devices (Blu-ray disc player, PlayStation®3, etc.)</td>
<td>Importing movies to a computer using “PMB” and creating a Blu-ray disc</td>
<td>Blu-ray</td>
</tr>
<tr>
<td>AVCHD format playback devices (Sony Blu-ray disc player, PlayStation®3, etc.)</td>
<td>Importing movies to a computer using “PMB” and creating an AVCHD format disc</td>
<td>AVCHD</td>
</tr>
<tr>
<td>Ordinary DVD playback devices (DVD player, computer that can play DVDs, etc.)</td>
<td>Importing movies to a computer using “PMB” and creating a standard definition image quality (STD) disc</td>
<td>STD</td>
</tr>
</tbody>
</table>

Notes
- If you create a disc using Sony DVDirect (DVD Writer), use the memory card slot of the DVD Writer or connect the DVD Writer via USB connection to transfer the data.
- If you use Sony DVDirect (DVD Writer), check that the firmware is updated to the newest version.
  For details, see the following URL:
  http://sony.storagesupport.com/
- Movie in AVCHD view description as follows:
  DSC-TX10: AVCHD-format movies
  DSC-TX100 / TX100V: Recorded with [Movie format] set to [AVCHD 50i/50p] or [AVCHD 60i/60p]. [Details]

Characteristics of each type of disc
- Using a Blu-ray disc enables you to record high-definition image quality (HD) movies of a longer duration than DVD discs.
- High-definition image quality (HD) movies can be recorded on DVD media, such as DVD-R discs, and a high-definition image quality (HD) disc is created.
  - You can play a high-definition image quality (HD) disc on AVCHD format playback devices, such as a Sony Blu-ray disc player and a PlayStation®3. You cannot play...
Standard definition image quality (STD) movies converted from high-definition image quality (HD) movies can be recorded on DVD media, such as DVD-R discs, and a standard definition image quality (STD) disc is created.

<table>
<thead>
<tr>
<th>Types of discs that can be used with “PMB”</th>
</tr>
</thead>
<tbody>
<tr>
<td>The following 12-cm discs can be used with “PMB”. For information on Blu-ray discs, see [Details].</td>
</tr>
<tr>
<td>DVD-R / DVD+R / DVD+R DL: Cannot be re-written.</td>
</tr>
<tr>
<td>DVD-RW / DVD+RW: Can be re-written and used again.</td>
</tr>
<tr>
<td>● Always maintain your PlayStation®3 to use the latest version of the PlayStation®3 system software.</td>
</tr>
<tr>
<td>● The PlayStation®3 may not be available in some countries/regions.</td>
</tr>
</tbody>
</table>
Creating AVCHD discs

An AVCHD disc with HD picture quality can be created from movies in AVCHD view imported to a PC using the supplied “PMB” software.

1. Turn on the power of the PC and insert an unused disc in the DVD drive.
2. Start “PMB”.
3. Select a movie in AVCHD view to be written to the disc.
4. Click (Create Discs), then select [Create AVCHD Format Discs (HD)].
5. Create the disc by following the on-screen instructions.

Playing an AVCHD disc on a PC
AVCHD discs can be played on a PC using “Player for AVC HD” installed along with “PMB”. To start the software, click on [Start] → [All Programs] → [PMB] → [PMB Launcher] → [View] → [Player for AVC HD].
For detailed operations, see the Help for “Player for AVC HD”.
- Images may not play back smoothly depending on the PC environment.

Notes
- Be sure that “PMB” has already been installed. [Details]
- You cannot record the following images on an AVCHD disc:
  - Still images
  - MP4 movies
  - Movies recorded in [AVC HD 28M (PS)] or [AVC HD 24M (FX)] quality
- Disc creation may take time.
- Movie in AVCHD view description as follows:
  DSC-TX10: AVCHD-format movies
  DSC-TX100 / TX100V: Recorded with [Movie format] set to [AVCHD 50i/50p] or [AVCHD 60i/60p]. [Details]
Creating standard definition image quality (STD) discs

DVD discs with standard definition image quality (STD) can be created using the supplied “PMB” software and selecting a movie in AVCHD view imported to the PC.

1. Turn on the power of the PC and insert an unused disc in the DVD drive.
   - If software other than “PMB” starts automatically, exit that software.
2. Start “PMB”.
3. Select the AVCHD movie to be written to the disc.
4. Click (Create Discs), then select [Create DVD-Video Format Discs (STD)].
5. Create the disc by following the on-screen instructions.

Notes
- Be sure that “PMB” has already been installed. [Details]
- Discs cannot be created for MP4 movies.
- Disc creation may take time due to converting movies in AVCHD view to standard definition image quality (STD).
- The PC must be connected to the Internet the first time a DVD-Video disc is created.
- Movie in AVCHD view description as follows:
  DSC-TX10: AVCHD-format movies
  DSC-TX100 / TX100V: Recorded with [Movie format] set to [AVCHD 50i/50p] or [AVCHD 60i/60p]. [Details]
Creating Blu-ray discs

You can create Blu-ray discs from movies in AVCHD view imported to a PC. The PC in question must be capable of creating Blu-ray discs. BD-R (not re-writable) or BD-RE (re-writable) discs can be used. Multi-session recordings cannot be made. To create Blu-ray discs, be sure to install [BD Add-on Software] on the "PMB" installation screen. To install, your PC must be connected to the Internet. For detailed operations, see "PMB Help".

Notes

- [AVC HD 28M PS] quality movies are saved to Blu-ray discs, you need to use the supplied software “PMB”. (DSC-TX10 / TX100V)
- Movie in AVCHD view description as follows:
  - DSC-TX10: AVCHD-format movies
  - DSC-TX100 / TX100V: Recorded with [Movie format] set to [AVCHD 50i/50p] or [AVCHD 60i/60p]. [Details]
Printing still images

You can print still images using the following methods.

- Printing directly using a printer which supports your memory card type.
  For details, see the operating instructions supplied with the printer.
- Printing using a computer
  You can import images to a computer using the supplied “PMB” software and print the images.
  For details, see the “PMB Help”.
- Printing at a shop [Details]

Notes

- When you print still images shot in [16:9] mode, both edges may be cut off.
- You cannot print panorama images depending on the printer.
Printing at a shop

You can take a memory card containing images shot with the camera to a photo printing service shop. As long as the shop supports photo printing services conforming to DPOF, you can make a DPOF (Print order) mark on images in advance in the playback mode so that you do not have to reselect them when you print them out at the shop.

**Notes**
- You cannot print images stored in the internal memory at a print shop directly from the camera. Copy the images to a memory card, then take the memory card to the print shop. [Details]
- Consult your photo printing service shop as to what types of memory card they handle.
- A memory card adaptor (sold separately) may be necessary. Consult your photo printing service shop.
- Before you take image data to a shop, always copy (back up) your data to a disk.
- You cannot set the number of prints.

**Related Topic**
Print (DPOF)
If you have problems

If you experience trouble with the camera, try the following solutions.

1. Check the items under “Troubleshooting”, then check your camera.
   If a code such as “C/E: □ □ : □ □ ” appears on the screen, see “Self-diagnosis display”.

2. Remove the battery pack, wait for about one minute, re-insert the battery pack, then turn on the power.

3. Initialize the settings. [Details]

4. Consult your Sony dealer or local authorized Sony service facility.
   ● Be aware that by sending the camera for repair, you give consent that the contents of the internal memory and music files may be checked.
   ● Additional information on this product and answers to frequently asked questions can be found at our Customer Support Website.
   http://www.sony.net/
Battery pack and power

Cannot insert the battery pack into the camera.

- Make sure the direction of the battery pack is correct, and insert it until the battery eject lever is locked.

Cannot turn on the camera.

- After inserting the battery pack into the camera, it may take a few moments for the camera to power up.
- Make sure that the battery pack is inserted correctly.
- The battery pack is discharged. Charge the battery pack.
- The battery pack terminals are dirty. Gently wipe away any dirt with a soft cloth.
- Check that the battery pack type is NP-BN1.

The power turns off suddenly.

- Depending on the camera and battery temperature, the power may turn off automatically to protect the camera. In this case, a message is displayed on the screen before the power turns off.
- If you do not operate the camera for a certain period of time while the power is on and [Power Save] is set to [Standard] or [Stamina], the camera turns off automatically to prevent wearing down the battery pack. Turn on the camera again.
- If you do not operate the camera for a certain period of time while the power is on and [Power Save] is set to [Off] or the camera is connected to AC adaptor to supply the power, the screen automatically goes dark to prevent burn-in on the screen. Touch the screen again to display. (DSC-TX100 / TX100V)

The remaining charge indicator is incorrect.

- This is caused when you use the camera in an extremely hot or cold location.
- A discrepancy arose between the remaining charge indicator and the actual remaining battery charge. Fully discharge the battery pack once, then charge it to correct the indication. The remaining charge indicator may not be correct under certain circumstances.
- Battery capacity decreases over time and through repeated use. If decreased usage time between charges becomes significant, it is probably time to replace it with a new one.

The Power/charge lamp of the camera flashes while charging the battery.

- Check that the battery pack type is NP-BN1.
- The Power/charge lamp of the camera flashes infrequently when you use a battery pack that has not been used for a long time. In such cases, remove the battery pack from the camera
and re-insert it.

- For details, see “Battery pack” [Details].

**The battery is not charged even if the Power/charge lamp turns off and charging is finished.**

- This happens when you charge the battery pack in an extremely hot or cold location. Charge the battery pack within the proper charging temperature range of between 10°C to 30°C (50°F to 86°F).
Shooting still images / movies

Cannot record images.

- If images are recorded on the internal memory even when a memory card is inserted into the camera, make sure that the memory card is fully inserted into the camera.
- Check the free capacity of the internal memory or memory card. If it is full, do one of the following:
  - Delete unnecessary images. [Details]
  - Change the memory card.
- You cannot record images while charging the flash.
- When recording movies, it is recommended that you use the following memory cards:
  - “Memory Stick PRO Duo” (Mark2) media, “Memory Stick PRO-HG Duo” media
  - SD memory card, SDHC memory card or SDXC memory card (Class 4 or faster)
- Set [Demo Mode] to [Off]. [Details]

Smile Shutter function does not work.

- No image is shot if a smiling face is not detected. [Details]
- Set [Demo Mode] to [Off]. [Details]

Anti-blur function does not work.

- The anti-blur function may not work properly when shooting night scenes.
- Shoot after pressing the shutter button halfway down.

Recording takes a long time.

- When the shutter speed becomes slower than a certain speed, for example, when you shoot images in dark locations, the camera automatically reduces the image noise. This function is called NR (noise reduction) slow shutter and the shooting time takes longer.

The image is out of focus.

- The subject is too close. When shooting, make sure to position the lens farther away from the subject than the shortest shooting distance in the following situation.
  - In Intelligent Auto mode, Superior Auto mode, Easy Mode: approximately 1 cm (13/32 inches) (W) / 50 cm (1 ft 7 3/4 inches) (T) (from the lens)
  - In other shooting mode: approximately 8 cm (3 1/8 inches) to 50 cm (1 ft 7 3/4 inches) (W).
- (Twilight ), (Landscape) or (Fireworks) mode is selected in the Scene Selection when shooting still images.

Zoom does not work.
• You cannot use the optical zoom when:
  - Shooting in iSweep Panorama mode
  - Shooting in 3D Sweep Panorama
  - Shooting in Sweep Multi Angle
  - Shooting in Underwater iSweep Panorama (DSC-TX10)

• You cannot use the Smart zoom depending on the image size. [Details]

• You cannot use the digital zoom when:
  - In Superior Auto mode
  - In Background Defocus mode
  - Backlight Correction HDR mode is selected in the Scene Selection
  - Shooting in 3D mode
  - The Smile Shutter is working.
  - When [Self-Timer] is set to [Self-portrait One Person] or [Self-portrait Two People].

**Cannot select the Face Detection function.**

• You can select Face Detection only when the focus mode is set to [Multi AF] and the metering mode is set to [Multi].

• You cannot select Face Detection when the Close focus mode is activated.

**The flash does not work.**

• You cannot use the flash when:
  - Shooting in Background Defocus mode
  - Burst mode is selected. [Details]
  - Anti Motion Blur mode, Twilight mode, Hand-held Twilight mode, High Sensitivity mode or Fireworks mode is selected in Scene Selection.
  - Shooting in iSweep Panorama mode.
  - Shooting in 3D mode
  - Shooting in Underwater iSweep Panorama (DSC-TX10)
  - Shooting in movie mode.

• Set the flash to [On] when the Scene Selection mode is set to Landscape, Twilight HDR, (Backlight Correction HDR), Gourmet, Pet, Beach, Snow, Underwater (DSC-TX10) or Hi-Speed Shutter mode. [Details]

**Fuzzy white circular spots appear in images shot using the flash.**

• Particles dust, pollen, mist, floating object under water, etc. (DSC-TX10) in the air reflected the flash light and appeared in the image. This is not a malfunction. [Details]

**The close-up shoot function (Macro / Focus On) does not work.**

• Landscape, Twilight or Fireworks mode is selected in the Scene Selection.

• When Close Focus mode is selected, the shooting distance is approximately 1 cm to 20 cm (13/32 inches to 7 7/8 inches).

• [Macro] is set to [Auto] in the following situations:
  - Shooting in iSweep Panorama mode
  - Shooting in 3D mode
  - Shooting in 3D Sweep Panorama
  - Shooting in Sweep Multi Angle
  - Shooting in Underwater iSweep Panorama (DSC-TX10)
  - When the Smile Shutter function is activated.
  - In Easy Mode
  - When [Self-Timer] is set to [Self-portrait One Person] or [Self-portrait Two People].
Macro shooting cannot be turned off.

- There is no function for forcibly turning off macro shooting. In [Auto] mode, you can even shoot a distant subject.

The date and time are not displayed on the screen.

- While shooting, the date and time are not displayed. They are displayed only during playback.

The F value and shutter speed flash when you press and hold the shutter button halfway down.

- The exposure is incorrect. Correct the exposure. [Details]

The image colors are not correct.

- Adjust the White Balance. [Details]

Noise appears in the image when you view the screen in a dark place.

- The camera is attempting to increase the visibility of the screen by temporarily brightening the image under conditions of low illumination. There is no effect on the recorded image.

There is a dark shadow on the image.

- Depending on the brightness of the subject, you may see a dark shadow when you change the aperture. This is not a malfunction.

The eyes of the subject come out red.

- Set [Red Eye Reduction] to [Auto] or [On]. [Details]
- Shoot the subject at a distance closer than the flash range using the flash.
- Light the room and shoot the subject.
- Retouch the image using [Retouch] → [Red Eye Correction] in viewing menu, or correct using "PMB". [Details]

Dots appear and remain on the screen.

- This is not a malfunction. These dots are not recorded.

Cannot shoot images in succession.

- You cannot shoot images in succession while the Smile Shutter function is activated.
- The internal memory or memory card is full. Delete unnecessary images. [Details] [Details]
- The battery level is low. Insert a charged battery pack.

The same image is shot several times.

- Set [Burst Settings] to [Single]. [Details]
- [Scene Recognition] is set to [Advanced]. [Details]
The buttons and icons no longer appear.

- Touch [ ], all indicators are disappeared. Touch [ ] on the right of the screen for few seconds.
Viewing images

Cannot play back images.
- Make sure that the memory card is fully inserted into the camera.
- The folder/file name has been changed on your computer.
- No guarantees are made for playing back, on this camera, files containing images which were processed on a computer or images which were shot using other cameras.
- The camera is in USB mode. Delete the USB connection. [Details]
- Use “PMB” to play images stored on a PC with this camera.

Cannot play back stereoscopic images on the camera.
- Stereoscopic images can be played back on this camera only when that image has been recorded using [Sweep Multi Angle] mode.
- 3D images consist of a JPEG file and an MPO file. If either file is deleted on the PC, the camera may not operate correctly.

Cannot hear music during slideshow.
- Transfer music files to the camera with “Music Transfer”. [Details]
- Confirm that the volume setting and slideshow setting are correct. [Details]
- Slideshow is played back with [Continuous Playback]. Select [Slideshow with music] and play back.

The image does not appear on the TV.
- For viewing movies, the camera and television must use the same color television system. [Details]
- Check whether the connection is correct. [Details]

3D images do not appear on the TV even though the camera is in [3D Viewing] mode.
- Check that the TV is set to display the 3D images.
Deleting

Cannot delete an image.

- Cancel the protection. [Details]
GPS (DSC-TX100V only)

The camera is not receiving a GPS signal.
- Set [GPS setting] to [On]. [Details]
- Your camera may not be able to receive radio signals from GPS satellites because of obstructions.
- To triangulate the location information correctly, bring your camera to an open area, and turn on the camera again.

Excessive error in location information.
- The margin of error can be up to several-hundred meters depending on surrounding buildings, GPS signal strength, etc.

It takes time to triangulate although [GPS assist data] is taken in.
- [Date & Time Setting] is not set, or set time is shifted greatly. Set the date and time correctly. [Details]
- The term of validity of assist data has expired. Update [GPS assist data]. [Details]
- As the positions of GPS satellites vary constantly, it may take longer to determine the location or the receiver may not be able to determine the location at all, depending on the location and time you use the camera.
- “GPS” is a system for determining geographic location by triangulating radio signals from GPS satellites. Avoid using the camera in places where radio signals are blocked or reflected, such as a shadowy place surrounded by buildings or trees, etc. Use the camera in open sky environments.

The location or direction information has not been recorded.
- The shooting direction is not recorded when shooting movies.
- Use “PMB” to import movies with GPS location information to your computer.

Excessive error in compass information
- Do not place the camera in close proximity to a magnetic source, or a metal.
Computers

“Weird Memory Stick PRO Duo” media is not recognized by a computer with a “Memory Stick” media slot.

- Check that the computer and the “Memory Stick” media Reader/Writer support “Memory Stick PRO Duo” media. Users of computers and “Memory Stick” media Readers/ Writers made by manufacturers other than Sony should contact those manufacturers.

- If “Memory Stick PRO Duo” media is not supported, connect the camera to the computer. The computer recognizes the “Memory Stick PRO Duo” media. [Details]

Your computer does not recognize the camera.

- Set [USB Connect Setting] to [Mass Storage]. [Details]

- Use the multi-use terminal USB cable (supplied).

- Disconnect the USB cable from both the computer and the camera, and connect it again firmly.

- Disconnect all equipment other than the camera, the keyboard and the mouse from the USB connectors of your computer.

- Connect the camera directly to your computer without passing through a USB hub or other device.

- Set [USB Power Supply] to [Off]. Your computer may recognize the camera.

Cannot import images.

- Connect the camera and your computer correctly making a USB connection. [Details]

- When you shoot images with a memory card formatted by a computer, you may not be able to import the images to a computer. Shoot using a memory card formatted by the camera. [Details]

After making a USB connection, “PMB” does not start automatically.

- Make the USB connection after the computer is turned on.

After making a USB connection, “PMB Portable” does not start.

- Set [LUN Setting] to [Multi]. [Details]

- Set [USB Connect Setting] to [Mass Storage]. [Details]

- Connect the computer to the network.

Cannot play back images on your computer.

- If you are using “PMB”, refer to “PMB Help”. [Details]
Consult the computer or software manufacturer.

The image and sound are interrupted by noise when you view a movie on a computer.

- You are playing back a movie directly from the memory card. Import the movie to your computer using “PMB,” and then play it back. [Details]

Images once exported from a computer cannot be viewed on the camera.

- Export them to a folder recognized by the camera, such as “101MSDC”.
- Use “PMB” to play images stored on a PC with this camera.
- Register the image in the Image Database File and play in [Date View]. [Details]
- Event View is not available on this camera.
Memory card

Cannot insert a memory card.

- Insert the memory card in the correct direction.

You have formatted a memory card by mistake.

- All the data on the memory card is deleted by formatting. You cannot restore it.

Images are recorded on the internal memory even when a memory card is inserted into the camera.

- Make sure that the memory card is fully inserted into the camera.
Internal memory

Cannot play back or record images using the internal memory.
- There is a memory card inserted in the camera. Remove it.

Cannot copy the data stored in the internal memory to a memory card.
- The memory card is full. Copy to a memory card with sufficient capacity.

Cannot copy the data on the memory card or the computer to the internal memory.
- This feature is not available.
Printing

Cannot print an image.

- Refer to the operation manual of the printer.

Images are printed with both edges cut off.

- Depending on your printer, all the edges of the image may be cut off. Especially when you print an image shot with the image size set to [16:9], the lateral end of the image may be cut off.
- When printing images using your printer, cancel the trimming or borderless settings. Consult the printer manufacturer as to whether the printer provides these functions or not.
- When having images printed at a digital print shop, ask the shop whether they can print the images without cutting off both edges.

Cannot print images with the date.

- Using "PMB", you can insert the date on still images. [Details]
- Select MENU  
  
  (Shooting Settings)  
  [Write Date]  
  [On] to insert a date on the image. Make sure that once the date is inserted, you cannot remove that date.

Cannot print 3D images as they are displayed on the camera’s screen.

- 3D images displayed on the camera are MPO files, but the images to be printed are JPEG files, so in some cases, the images to be printed out will differ from the ones displayed on the screen.
Touch Panel / Screen

Cannot operate the touch panel buttons correctly or fully.
- The touch panel may not react the operation when sticking the protection film on.
- Touch the desired area on the screen rather than any other area, its may not worked properly. When operating the touch panel, do not touch any other area except the desired area.
- [Housing] is set to [On]. (DSC-TX10) [Details]

The paint pen operation reacts at inappropriate points.
- Hold the paint pen straight up.
- Avoid holding the point of the paint pen.

When displaying the bright image on the screen, the brightness level is looked different. (DSC-TX100 / TX100V)
- The very bright image is displayed on the screen, the screen automatically goes dark that is not turn the power off.
- Displays the image dark, the looks difference between the actual image and display image.
  - When displaying the very bright image
  - When shooting the bright subject with EV set to + side.
  - When shooting the bright subject by the dark subject is locked on AE.

The screen goes dark, the screen vanishes. (DSC-TX100 / TX100V)
- If the camera is not operated for a certain period of time, the screen automatically goes dark to prevent burn-in on the screen. Return to normal screen when you operate the camera.
**Others**

**The lens gets fogged.**

- Moisture condensation has occurred. Turn off the camera and leave it for about an hour before using it (DSC-TX100 / TX100V). Pull out the battery and the memory card and open up the battery / memory card cover, then put down the camera in dry place until the moisture to evaporate (DSC-TX10).

**The camera becomes warm when you use it for a long time.**

- This is not a malfunction.

**The Clock Set screen appears when you turn on the camera.**

- Set the date and time again. [Details]
- The internal rechargeable backup battery has discharged. Insert a charged battery, and set aside for 24 hours or more with the power left off.

**The date or time is incorrect.**

- The Area Setting is set to a different location than your current location. Change the setting by MENU → (Settings) → [Clock Settings] → [Area Setting].
Self-diagnosis display

If a code starting with an alphabetic letter appears, the self-diagnosis function on the camera is working. The last two digits (indicated by  □ □ ) will differ depending on the state of the camera.

If you cannot solve the problem even after trying the following corrective actions a few times, the camera may need repair.

Contact your Sony dealer or local authorized Sony service facility.

C:32: □ □
E:95: □ □  (DSC-TX100V)

- There is trouble with the camera's hardware. Turn the power off and on again.

C:13: □ □

- The camera cannot read or write data on the memory card. Try turning off and on the camera again, or taking out and inserting the memory card several times.
- The internal memory has experienced a format error, or an unformatted memory card is inserted. Format the internal memory or the memory card. [Details]
- The inserted memory card cannot be used with the camera, or the data is damaged. Insert a new memory card.

E:61: □ □
E:62: □ □
E:91: □ □

- A camera malfunction has occurred. Initialize the camera, then turn the power on again. [Details]

E:94: □ □

- There is a malfunction when writing or deleting data. Repair is required. Contact your Sony dealer or local authorized Sony service facility. Be prepared to give all numbers in the error code beginning from the E.
Messages

If the following messages appear, follow the instructions.

- The battery level is low. Charge the battery pack immediately. Depending on the conditions of use or the type of battery pack, the indicator may flash even though there are still 5 minutes to 10 minutes of remaining battery time left.

- **For use with compatible battery only**
  - The battery inserted is not an NP-BN1 (supplied) battery pack.

- **Camera overheating Allow it to cool**
  - The camera temperature has risen. The power may turn off automatically, or you may be unable to record movies. Leave the camera in a cool location until the temperature decreases.

- **Internal memory error**
  - Turn the power off and then on again.

- **Reinsert the memory card.**
  - The inserted memory card cannot be used in the camera. [Details]
  - The terminal section of the memory card is dirty.
  - The memory card is damaged.

- **This memory card is not formatted correctly.**
  - The inserted memory card cannot be used in the camera. [Details]

- **This memory card may not be able to record or play images correctly.**
  - The inserted memory card cannot be used in the camera. [Details]

- **Buffer overflow. Writing to the media was not completed in time.**
  - If you use a memory card that has been recorded and erased repeatedly, or that was formatted on a different camera, the data writing speed may be too slow. First back up any data on the card to a computer, and then reformat the card before using it. [Details]
  - The writing speed of the memory card you are using is not sufficient for movie recordings. Use a “Memory Stick PRO-HG Duo” media, “Memory Stick PRO Duo” (Mark2) media, or an
The memory card is locked. Check the tab.
- You are using a memory card with a write-protect switch, and the switch is set to the LOCK position. Set the switch to the recording position.

This is a read-only memory card.
- The camera cannot record or delete images on this memory card.

Writing to the memory card was not completed correctly. Recover data
- Reinsert the memory card, and follow the instructions on the screen.

No images
- No images that can be played back have been recorded in the internal memory.
- No images that can be played back have been recorded in this folder of the memory card.

No still images
- There are no 3D images that can be played back in [3D Viewing] mode.
- The selected folder or date does not contain a file that can be played back in a slideshow.

File found which was not recognized
- You tried to delete a folder containing a file that cannot be played on this camera. Delete the file on a computer and then delete the folder.

Folder error. Cannot record to the selected folder. Please select a different folder.
- A folder with the same first three digit number already exists on the memory card (for example: 123MSDCF and 123ABCDE). Select another folder [Details], or create a new folder [Details].

Cannot create more folders
- The folder with a name beginning with "999" exists on the memory card. You cannot create any folders if this is the case.

Empty folder contents
- You tried to delete a folder containing one or more files. Delete all of the files and then delete the folder.

Folder protected
- You tried to delete a folder that is protected as read only on a computer.

File Error.
• An error occurred while the image was playing back.
  No guarantees are made for playing back, on this camera, files containing images which were
  processed on a computer or images which were shot using other cameras.

Read only folder
• You have selected a folder that cannot be set as a recording folder on the camera. Select
  another folder. [Details]

File protected
• Release the protection. [Details]

Image size over limit
• You are playing back an image with size that cannot be played back on the camera.

Unable to detect face for retouch
• You may not be able to retouch the image depending on the image.

(Vibration warning indicator)
• Camera shake may occur due to insufficient light. Use the flash, or mount the camera on a
  tripod to secure the camera.

MP4 12M is not supported with this memory card.
MP4 6M is not supported with this memory card.
• For recording movies, it is recommended that you use a "Memory Stick PRO Duo" (Mark2)
  media, a "Memory Stick PRO-HG Duo" media or an SD card (Class 4 or faster).

Maximum number of images already selected.
• Up to 10 files can be selected when using [TransferJet].
• Up to 100 files can be selected when using [Multiple Images].
• You can add DPOF (Print order) marks to up to 999 files.

Error Playing Music
• Delete the Music file, or replace it with a normal music file.
• Execute [Empty Music], then download a new music file.

Error Formatting Music
• Execute [Empty Music].

Operation cannot be executed in unsupported files.
• Processing and other editing functions of the camera cannot be performed on image files that
  have been processed using a computer or images that were recorded with other cameras.
Preparing image database file. Please wait.

- The camera restores the date information, etc., in cases where images have been deleted on a PC, etc.
- The necessary Image Database File is created after the memory card is formatted.

The number of images exceeds that for which date management in a database file by the camera is possible. To register additional images in the Image Database File, delete images in [Date View].

Inconsistencies found in image database file. Do you want to repair the image database file?

- Movies in AVCHD view cannot be recorded or played because the Image Database File is corrupt. Follow the on-screen instructions to recover the Image Database File.
- Movie in AVCHD view description as follows:
  DSC-TX10: AVCHD-format movies
  DSC-TX100 / TX100V: Recorded with [Movie format] set to [AVCHD 50i/50p] or [AVCHD 60i/60p]. [Details]

The number of images exceeds that for which date management in a database file by the camera is possible. To register additional images in the Image Database File, delete images in [Date View].

It is not possible to record to the camera's Image Database File or play back using [Date View]. Use “PMB” to back up all images to a PC and use it to restore a memory card.

Image Database File error. Cannot recover data.

- Import all of the images to the computer with “PMB”, and format the memory card or the internal memory.
  To view the images again with the camera, export the imported images to the camera with “PMB”. [Details]

Recording function unavailable due to high internal temperature.

- The camera temperature has risen. You cannot record images until the temperature has decreases.

Recording has stopped due to increased camera temperature.

- Recording has stopped due to a rise in temperature while recording a movie. Please wait until the temperature decreases.

- When you record movies for a long time, the camera temperature rises. In this case, stop recording movies.

Connection failed

- Check the TransferJet reception port and transfer data correctly. [Details]

Some files were not sent
Some files were not received

- Either communication was cut off during image transfer, or transfer was cut off because device memory is full. Check the available memory capacity and try transferring data using TransferJet again.
- You may not be able to receive the image depending on the image.
Precautions

- Internal memory and memory card back up
- On database files
- Do not use / store the camera in the following places
- On carrying
- On operating temperatures
- On moisture condensation
- Functions built into this camera
- On image data compatibility
- Notes when playing movies on other devices
- Notes on the screen and lens

Internal memory and memory card back up
Do not turn off the camera, remove the battery pack, or remove the memory card while the access lamp is lit. Otherwise, the internal memory data or the memory card may be damaged. Be sure to make a backup copy to protect your data.

On database files
When you insert a memory card without a database file into the camera and turn on the power, part of the memory card capacity is used to automatically create a database file. It may take some time until you can perform the next operation.

Do not use / store the camera in the following places
- In an extremely hot, cold or humid place
  In places such as in a car parked in the sun, the camera body may become deformed and this may cause a malfunction.
- Under direct sunlight or near a heater
  The camera body may become discolored or deformed, and this may cause a malfunction.
- In a location subject to rocking vibration
- Near strong magnetic field
- In sandy or dusty places (DSC-TX100 / TX100V)
  Be careful not to let sand or dust get into the camera. This may cause the camera to malfunction, and in some cases this malfunction cannot be repaired.

On carrying
- Do not sit down in a chair or other place with the camera in the back pocket of your trousers or skirt, as this may cause malfunction or damage the camera.

On operating temperatures
- Shooting in extremely cold or hot places that exceed this range is not recommended. Your camera is designed for use under the temperatures as follows:
  - DSC-TX10: between −10°C and 40°C (14°F and 104°F).
On moisture condensation

- If the camera is brought directly from a cold to a warm location, moisture may condense inside or outside the camera. This moisture condensation may cause a malfunction of the camera.
- If moisture condensation occurs, do as follows:
  - Pull out the battery and the memory card and open up the battery / memory card cover, then leave the camera in dry place until the moisture has evaporated. (DSC-TX10)
  - Turn off the camera and wait about an hour for the moisture to evaporate. (DSC-TX100 / TX100V)

Note that if you attempt to shoot with moisture remaining inside the lens, you will be unable to record clear images.

Functions built into this camera

- This manual describes each of the functions of GPS function compatible / incompatible devices, TransferJet-compatible / incompatible devices, 1080 60i-compatible devices and 1080 50i-compatible devices.
  - To check if your camera supports the GPS function, check for the model name.
  - GPS-compatible device: DSC-TX100V
  - GPS-incompatible device: DSC-TX10 / TX100
- To check if your camera supports the TransferJet function, and whether it is a 1080 60i-compatible device or 1080 50i-compatible device, check for the following marks on the bottom of the camera.
  - TransferJet-compatible device: (TransferJet)
  - 1080 60i-compatible device: 60i
  - 1080 50i-compatible device: 50i
- While aboard an airplane, TransferJet function is set to off. In addition, always follow all regulations governing the location in which the camera is being used.
- Do not watch 3D images shot with this camera for extended periods of time on 3D-compliant monitors.
- When you view 3D images shot with this camera on a 3D-compliant monitors, you may experience discomfort in the form of eye strain, fatigue, or nausea. To prevent these symptoms, we recommend that you take regular breaks. However, you need to determine for yourself the length and frequency of breaks you require, as they vary according to the individual. If you experience any type of discomfort, stop viewing the 3D images until you feel better, and consult a physician as necessary. Also, refer to the operating instructions supplied with the device or software you have connected or are using with this camera.
  - Note that a child’s eyesight is still at the development stage (particularly children below the age of 6). Consult a pediatrician or ophthalmologist before letting your child view 3D images, and make sure he/she observes the above precautions when viewing such images.

On image data compatibility

- The camera conforms with DCF (Design rule for Camera File system) universal standard established by JEITA (Japan Electronics and Information Technology Industries Association).
- Sony does not guarantee that the camera will play back images recorded or edited with other equipment, or that other equipment will play back images recorded with the camera.

Notes when playing movies on other devices

- This camera uses MPEG-4 AVC/H.264 High Profile for AVCHD format recording. Movies recorded in AVCHD format with this camera cannot be played by the following devices.
  - Other devices compatible with AVCHD format that do not support High Profile
  - Devices incompatible with the AVCHD format

This camera also uses MPEG-4 AVC/H.264 High Profile for MP4 format recording. For this
reason, movies recorded in MP4 format with this camera cannot be played on devices other than those that support MPEG-4 AVC/H.264.

- You can play a high-definition image quality (HD) disc only on AVCHD format playback devices. A DVD player or DVD recorder cannot play back a disc recorded in high-definition image quality (HD) because they are not compliant with the AVCHD format. In addition, if you insert a high-definition image quality (HD) disc recorded in AVCHD format into a DVD player or DVD recorder, you may not be able to eject the disc.

### Notes on the screen and lens

- The screen is manufactured using extremely high-precision technology so over 99.99% of the pixels are operational for effective use. However, some tiny black and/or bright dots (white, red, blue or green) may appear on the screen. These dots are a normal result of the manufacturing process and do not affect the recording.
- If water droplets or other liquids splash on the screen and make it wet, immediately wipe off the screen with a soft cloth. Leaving liquids on the screen surface can harm the quality and cause a malfunction. (DSC-TX100 / TX100V)
- Exposing the screen or the lens to direct sunlight for long periods may cause malfunctions. Be careful when placing the camera near a window or outdoors.
- Do not press against the screen. The screen may be discolored a malfunction may result.
- Images may trail across on the screen in a cold location. This is not a malfunction.
- Be careful not to bump the lens, and be careful not to apply force to it.
On the internal rechargeable backup battery

This camera has an internal rechargeable battery for maintaining the date and time and other settings regardless of whether the power is on or off. This rechargeable battery is continually charged as long as you are using the camera. However, if you use the camera for only short periods, it discharges gradually, and if you do not use the camera at all for about one month it becomes completely discharged. In this case, be sure to charge this rechargeable battery before using the camera. However, even if this rechargeable battery is not charged, you can still use the camera, but the date and time will not be indicated.

Charging method of the internal rechargeable backup battery
Insert a charged battery pack in the camera, and then leave the camera for 24 hours or more with the power off.
Battery pack

On charging the battery pack

- Charge the battery pack (supplied) before using the camera for the first time.
- You can charge the battery pack even if it is not completely discharged. In addition, even if the battery pack is not fully charged, you can use the partially charged capacity of the battery pack as is.
- We recommend charging the battery pack in an ambient temperature of between 10°C to 30°C (50°F to 86°F). The battery pack may not be effectively charged in temperatures outside this range.

Effective use of the battery pack

- Battery performance decreases in low temperature surroundings. So in cold places, the operational time of the battery pack is shorter. We recommend the following to ensure longer battery pack use:
  - Put the battery pack in a pocket close to your body to warm it up, and insert it in the camera immediately before you start shooting.
    (If there are any metal objects such as keys in your pocket, be aware of short-circuits.)
- The battery pack will run out quickly if you use the flash or zoom frequently.
- We recommend having spare battery packs handy for two times or three times the expected shooting time, and making trial shots before taking the actual shots.
- Do not expose the battery pack to water. The battery pack is not water-resistant.
- Do not leave the battery pack in extremely hot places, such as in a car or under direct sunlight.
- You may not be able to turn on the camera or the battery pack may not be effectively charged if the terminal section of the battery is dirty. In this case, wipe any dust with a soft cloth or a cotton swab lightly to clean the battery.

Remaining battery charge

- A remaining charge indicator appears on the screen.

A: High
B: Low
- It takes about one minute until the correct remaining charge indicator appears.
• The remaining charge indicator may not be correct under certain circumstances.
• When [Power Save] is set to [Standard] or [Stamina], if you do not operate the camera for a certain period of time while the power is on, the screen becomes dark, then the camera turns off automatically (Auto power-off function).

### How to store the battery pack

• Fully discharge the battery pack before storing and store it in a cool, dry place. To maintain the battery pack’s function, charge the battery pack and then fully discharge it on the camera at least once a year while storing.
• To use the battery pack up, leave the camera in slideshow playback mode until the power goes off.
• To prevent staining the terminal, short-circuiting, etc., be sure to use a plastic bag, etc. to keep away from metal materials when carrying or storing.

### On battery life

• The battery life is limited. Battery capacity decreases over time and through repeated use. If decreased usage time between charges becomes significant, it is probably time to replace it with a new one.
• The battery life varies according to how it is stored and the operating conditions and environment in which each battery pack is used.

### Compatible battery pack

• The NP-BN1 (supplied) can be used only in N type compatible Cyber-shot models.
AC Adaptor

- The supplied AC Adaptor is dedicated to this camera. Do not connect with other electronic devices. Doing so may cause a malfunction. Also, make sure to use a genuine Sony AC Adaptor.

- If the Power/charge lamp of the camera flashes during charging, remove the battery pack being charged, and then insert the same battery pack into this camera securely again. If the Power/charge lamp flashes again, this may indicate a battery error or that a battery pack other than the specified type has been inserted. Check that the battery pack is the specified type. If the battery pack is the specified type, remove the battery pack, replace it with a new or different one and check that the battery is charged correctly. If the battery is charged correctly, a battery error may have occurred.

- If the Power/charge lamp does not light even if the AC Adaptor is connected to the camera and the wall outlet (wall socket), this indicates that the charging has stopped temporarily and is on standby. Charging stops and enters standby status automatically when the temperature is outside of the recommended operating temperature. When the temperature returns to the appropriate range, charging resumes and the Power/charge lamp lights up again. We recommend charging the battery pack in an ambient temperature of between 10°C to 30°C (50°F to 86°F).

- Using the supplied AC Adaptor, you can charge the battery pack inserted in the camera. In addition, power supply via an AC Adaptor in playback mode is also available. However, in shooting mode, power supply via an AC Adaptor is not available. You need an AC-LS5 AC Adaptor (sold separately) and a VMC-MD3 Cable for multi-use terminals (sold separately) to supply a power from the wall outlet (wall socket) during shooting.
Memory card

- Note on using the memory card adaptor (sold separately)
- "Memory Stick" media
- When using a "Memory Stick Duo" media with standard sized "Memory Stick" media slot
- Notes on using a "Memory Stick Micro" media (sold separately)

The types of memory cards that can be used with the camera are "Memory Stick PRO Duo" media, "Memory Stick PRO-HG Duo" media, "Memory Stick Duo" media, SD memory card, SDHC memory card and SDXC memory card. MultiMediaCard cannot be used.

In this User Guide, "Memory Stick PRO Duo" media, "Memory Stick PRO-HG Duo" media and "Memory Stick Duo" media are called "Memory Stick Duo" media and SD memory cards, SDHC memory cards and SDXC memory cards are called SD cards.

- "Memory Stick Duo" media of up to 32 GB and SD cards of up to 64 GB have been tested and proven to operate with your camera.
- When recording movies, it is recommended that you use the following memory cards:
  - MEMORY STICK PRO DUO (Mark2) ("Memory Stick PRO Duo" (Mark2) media)
  - MEMORY STICK PRO-HG DUO ("Memory Stick PRO-HG Duo" media)
  - SD card (Class 4 or faster)

Notes

- To ensure stable operations of the memory card, we recommend that you use this camera to format any memory card being used with this camera for the first time. Note that formatting will erase all data recorded on the memory card. This data cannot be restored. Be sure to back up any important data to a PC or other storage location.
- If you repeatedly record / delete images, fragmentation of data may occur on the memory card. Movie may not be able to saved or recorded. In such a case, save your images to a PC or other storage location, then [Format].
- A memory card formatted with a computer is not guaranteed to operate with the camera.
- Data read / write speeds differ depending on the combination of the memory card and the equipment used.
- Data may be corrupted in the following cases:
  - When the memory card is removed or the camera is turned off during a read or write operation
  - When the memory card is used in locations subject to static electricity or electrical noise
- We recommend backing up important data.
- Do not attach a label on the memory card itself nor on a memory card adaptor.
- Do not touch the terminal section of the memory card with your hand or a metal object.
- Do not strike, bend or drop the memory card.
- Do not disassemble or modify the memory card.
- Do not expose the memory card to water.
- Do not leave the memory card within the reach of small children. They might accidentally swallow it.
- Insert a memory card that fits the memory card slot size. Otherwise, it will cause a malfunction.
- Do not use or store the memory card under the following conditions:
Note on using the memory card adaptor (sold separately)

- When inserting a memory card into a memory card adaptor, make sure the memory card is inserted facing in the correct direction, then insert it all the way in. Incorrect insertion may result in a malfunction.

“Memory Stick” media

The types of “Memory Stick Duo” media that can be used with the camera are listed in the table below. However, proper operation cannot be guaranteed for all “Memory Stick Duo” media functions.

<table>
<thead>
<tr>
<th>“Memory Stick” media type</th>
<th>Recording/Playback</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memory Stick Duo (without MagicGate)</td>
<td>○ &quot;1</td>
</tr>
<tr>
<td>Memory Stick Duo (with MagicGate)</td>
<td>○ &quot;2</td>
</tr>
<tr>
<td>MagicGate Memory Stick Duo</td>
<td>○ &quot;1*2</td>
</tr>
<tr>
<td>Memory Stick PRO Duo</td>
<td>○ &quot;2*3</td>
</tr>
<tr>
<td>Memory Stick PRO-HG Duo</td>
<td>○ &quot;2<em>3</em>4</td>
</tr>
</tbody>
</table>

*1 High-speed data transfer using a parallel interface is not supported.
*2 “Memory Stick Duo” media, “MagicGate Memory Stick Duo” media, “Memory Stick PRO Duo” media and “Memory Stick PRO-HG Duo” media are equipped with MagicGate functions. MagicGate is copyright protection technology that uses encryption technology. Data recording/playback that requires MagicGate functions cannot be performed with the camera.
*3 Movies recorded in movies in AVCHD view, [MP4 12M] and [MP4 6M] size movies cannot be recorded to “Memory Stick” media other than “Memory Stick PRO Duo” media or “Memory Stick PRO-HG Duo” media.
*4 This camera does not support 8-bit parallel data transfer. It performs the same 4-bit parallel data transfer as the “Memory Stick PRO Duo” media or “Memory Stick PRO-HG Duo” media. (DSC-TX10)

When using a “Memory Stick Duo” media with standard sized “Memory Stick” media slot

You can use the “Memory Stick Duo” media by inserting it into the “Memory Stick Duo” media Adaptor (sold separately).

“Memory Stick Duo” media Adaptor

Notes on using a “Memory Stick Micro” media (sold separately)

- This product is compatible with “Memory Stick Micro” media (“M2”). “M2” is an abbreviation for “Memory Stick Micro” media.
- To use a “Memory Stick Micro” media with the camera, be sure to insert the “Memory Stick Micro” media into an “M2” Adaptor as large as of Duo size. If you insert a “Memory Stick Micro” media into the camera without an “M2” Adaptor as large as of Duo size, you might not
be able to remove it from the camera.

- Do not leave the “Memory Stick Micro” media within the reach of small children. They might accidentally swallow it.
On cleaning

Cleaning the screen
Wipe the screen surface with an cleaning kit (sold separately) to remove fingerprints, dust, etc.

Cleaning the lens
Wipe the lens with a soft cloth to remove fingerprints, dust, etc.

Cleaning the flash
Clean the flash surface before use. The heat of flash emission may cause dirt on the flash surface to become discolored or to stick to the flash surface, resulting in insufficient light emission.

Cleaning the camera surface
Clean the camera surface with a soft cloth slightly moistened with water, then wipe the surface with a dry cloth. To prevent damage to the finish or casing:
- Do not expose the camera to chemical products such as thinner, benzine, alcohol, disposable cloths, insect repellent, sunscreen or insecticide.
- Do not touch the camera with any of the above on your hand.
- Do not leave the camera in contact with rubber or vinyl for a long time.
Number of still images

The number of still images may vary depending on the shooting conditions and the memory card. (Units: Images)

<table>
<thead>
<tr>
<th>Size</th>
<th>Internal memory</th>
<th>Memory card formatted with this camera</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Approx. 19 MB</td>
<td>2 GB</td>
</tr>
<tr>
<td>16M</td>
<td>3</td>
<td>335</td>
</tr>
<tr>
<td>10M</td>
<td>4</td>
<td>430</td>
</tr>
<tr>
<td>5M</td>
<td>7</td>
<td>730</td>
</tr>
<tr>
<td>VGA</td>
<td>98</td>
<td>9600</td>
</tr>
<tr>
<td>16:9(12M)</td>
<td>3</td>
<td>355</td>
</tr>
<tr>
<td>16:9(2M)</td>
<td>21</td>
<td>2100</td>
</tr>
</tbody>
</table>

**Notes**
- When the number of remaining shootable images is greater than 9,999, the “>9999” indicator appears.
- When an image shot with other cameras is played back on this camera, the image may not appear in the actual image size.
The table below shows the approximate maximum recording times. The recordable time may vary depending on the shooting conditions and the memory card.

**DSC-TX10**

<table>
<thead>
<tr>
<th>Quality / Size</th>
<th>Internal memory</th>
<th>Memory card formatted with this camera</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Approx. 19 MB</td>
<td>2 GB</td>
</tr>
<tr>
<td>AVC HD 24M (FX)</td>
<td>–</td>
<td>10m</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(10m)</td>
</tr>
<tr>
<td>AVC HD 17M (FH)</td>
<td>–</td>
<td>10m</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(10m)</td>
</tr>
<tr>
<td>AVC HD 9M (HQ)</td>
<td>–</td>
<td>25m</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(15m)</td>
</tr>
<tr>
<td>MP4 12M</td>
<td>–</td>
<td>15m</td>
</tr>
<tr>
<td>MP4 6M</td>
<td>–</td>
<td>35m</td>
</tr>
<tr>
<td>MP4 3M</td>
<td>–</td>
<td>1h10m</td>
</tr>
</tbody>
</table>

**DSC-TX100 / TX100V**

<table>
<thead>
<tr>
<th>Quality / Size</th>
<th>Internal memory</th>
<th>Memory card formatted with this camera</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Approx. 19 MB</td>
<td>2 GB</td>
</tr>
<tr>
<td>AVC HD 28M (PS)</td>
<td>–</td>
<td>9m</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(9m)</td>
</tr>
<tr>
<td>AVC HD 24M (FX)</td>
<td>–</td>
<td>10m</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(10m)</td>
</tr>
<tr>
<td>AVC HD 17M (FH)</td>
<td>–</td>
<td>10m</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(10m)</td>
</tr>
<tr>
<td>AVC HD 9M (HQ)</td>
<td>–</td>
<td>25m</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(15m)</td>
</tr>
<tr>
<td>MP4 12M</td>
<td>–</td>
<td>20m</td>
</tr>
<tr>
<td>MP4 6M</td>
<td>–</td>
<td>35m</td>
</tr>
<tr>
<td>MP4 3M</td>
<td>–</td>
<td>1h10m</td>
</tr>
</tbody>
</table>

- The number in the bracket shows the approximate minimum recording time.
- Continuous shooting is possible for approximately 29 minutes at one time. The maximum size of an MP4-format movie file is up to approximately 2 GB.
Note

- The recordable time of movies varies for the reason that the camera equipped with VBR (Variable Bit-Rate) which automatically adjusts image quality depending on shooting scene. When you record fast-moving subject, the image is clearer but the recordable time is shorter since more memory is used to capture the action. The recordable time also vary depending on the shooting condition or subject or setting of image quality / size.
Using the camera abroad

You can use the AC Adaptor (supplied) in any country or region where the power supply is within 100 V to 240 V AC, 50 Hz / 60 Hz.

Note
- An electronic voltage transformer is unnecessary and its use may cause a malfunction.
On TV color systems

To view movies shot using this camera on a television, the camera and television must use the same color television system. Check the color TV system for the country or region where you are using the camera.

**NTSC system**
Bahama Islands, Bolivia, Canada, Central America, Chile, Colombia, Ecuador, Jamaica, Japan, Korea, Mexico, Peru, Surinam, Taiwan, the Philippines, the U.S.A., Venezuela, etc.

**PAL system**
Australia, Austria, Belgium, China, Croatia, Czech Republic, Denmark, Finland, Germany, Holland, Hong Kong, Hungary, Indonesia, Italy, Kuwait, Malaysia, New Zealand, Norway, Poland, Portugal, Romania, Singapore, Slovak Republic, Spain, Sweden, Switzerland, Thailand, Turkey, United Kingdom, Viet Nam, etc.

**PAL-M system**
Brazil

**PAL-N system**
Argentina, Paraguay, Uruguay

**SECAM system**
Bulgaria, France, Greece, Guiana, Iran, Iraq, Monaco, Russia, Ukraine, etc.
Intelligent Pantilter (DSC-TX100 / TX100V only)

Intelligent Pantilter (sold separately) allows you to take pictures automatically, by having the camera detect people's faces. For details, see the operating instructions supplied with Intelligent Pantilter.
Carl Zeiss lens

The camera is equipped with a Carl Zeiss lens which is capable of reproducing sharp images with excellent contrast. The lens for the camera has been produced under a quality assurance system certified by Carl Zeiss in accordance with the quality standards of Carl Zeiss in Germany.
AVCHD format

The AVCHD format has been developed for high-definition digital video cameras when recording an HD (High-Definition) signal at the 1080i*1 or 720p*2 specification using high-efficiency compression coding technology. The MPEG-4 AVC/H.264 format is adopted to compress video data, and the Dolby Digital or Linear PCM system is used to compress audio data. The MPEG-4 AVC/H.264 format is capable of compressing images at higher efficiency than that of the conventional image compression format. The MPEG-4 AVC/H.264 format enables a high definition video signal shot on a digital video camera recorder to be recorded on 8 cm DVD discs, hard disk drive, flash memory, memory card, etc.

Recording and playback on the camera

Based on the AVCHD format, your camera records in high definition image quality (HD) mentioned below.

Video signal*3:
- 1080 60i-compatible device
  - MPEG-4 AVC/H.264 1920×1080/60i, 1440×1080/60i
- 1080 50i-compatible device
  - MPEG-4 AVC/H.264 1920×1080/50i, 1440×1080/50i

Audio signal: Dolby Digital 2ch

Recording media: Memory card

*1 1080i specification
   A high definition specification which utilizes 1,080 effective scanning lines and the interlace system.

*2 720p specification
   A high definition specification which utilizes 720 effective scanning lines and the progressive system.

*3 Data recorded in an AVCHD format other than the above mentioned cannot be played on your camera.
GPS (DSC-TX100V only)

This system allows you to pinpoint your exact location on the earth. GPS satellites are located in 6 orbits, 20,000 km above the earth. The GPS system consists of 24 or more GPS satellites. A GPS receiver receives radio signals from the satellites, and calculates the current location of the receiver based on the orbital information and travel time of the signals, etc.

Determining a location is called “triangulating”. A GPS receiver can determine the location’s latitude and longitude by receiving signals from 3 or more satellites.

As the positions of GPS satellites vary constantly, it may take longer to determine the location or the receiver may not be able to determine the location at all, depending on the location and time you use the camera.

“GPS” is a system for determining geographic location by triangulating radio signals from GPS satellites.

Avoid using the camera in places where radio signals are blocked or reflected, such as a shadowy place surrounded by buildings or trees, etc. Use the camera in open sky environments.

You may not be able to record location information at locations or in situations where radio signals from the GPS satellites do not reach the camera as follows:
- In tunnels, indoors or under the shade of buildings.
- Between tall buildings or in narrow streets surrounded by buildings.
- In underground locations, locations surrounded by dense trees, under an elevated bridge, or in locations where magnetic fields are generated, such as near high voltage cables.
- Near devices that generate radio signals of the same frequency band as the camera: near 1.5 GHz band mobile telephones, etc.

On triangulating errors

- If you move to another location right after turning on the camera, it may take a longer time for the camera to start triangulating, compared to when you stay in the same place.

- Error caused by the position of GPS satellites
  The camera automatically triangulates your current location when the camera receives radio signals from 3 or more GPS satellites. The triangulating error allowed by the GPS satellites is about 10 m (33 feet).
  Depending on the environment of the location, the triangulating error can be greater. In this case, your actual location may not match the location on the map based on the GPS information. Meanwhile, the GPS satellites are controlled by the United States Department of Defense, and the degree of accuracy may be changed intentionally.

- Error during the triangulating process
  The camera acquires location information regularly during triangulating. There is a slight time difference between when the location information is acquired and when the location information is recorded on an image, therefore, the actual recording location may not match exactly the location on the map based on the GPS information.

On GPS usage restrictions on an airplane

- During take off and landing of an airplane, turn off the camera, as you will be instructed to do by the onboard announcement.
- If you do not prefer to record any information, the [GPS setting] is set to [Off].

On the other restriction

- Use GPS in accordance with the regulations of the place or situation.

On the geographic coordinate system
• The “WGS-84” geographic coordinate system is used.
TransferJet standard

TransferJet communications conform to the standard given below.

**TransferJet standard:**
Conforms to PCL Spec. Rev. 1.0

**Protocol Class Name (communication type):**
- SCSI Block Device Target
- OBEX Push Server
- OBEX Push Client

- Use the “SCSI” communication protocol above when connecting to a TransferJet-compatible device (sold separately). Or, use the “OBEX” communication protocol when sharing data between cameras.
License

Notes on the License
“C Library”, “zlib” and “libjpeg” software are provided in the camera. We provide this software based on license agreements with their owners of copyright. Based on requests by the owners of copyright of these software applications, we have an obligation to inform you of the following. Please read the following sections.

Read “license1.pdf” in the “License” folder on the CD-ROM. You will find licenses (in English) of “C Library”, “zlib” and “libjpeg” software.

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(ii) DECODE AVC VIDEO THAT WAS ENCODED BY A CONSUMER ENGAGED IN A PERSONAL AND NON-COMMERCIAL ACTIVITY AND/OR WAS OBTAINED FROM A VIDEO PROVIDER LICENSED TO PROVIDE AVC VIDEO.
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ADDITIONAL INFORMATION MAY BE OBTAINED FROM MPEG LA, L.L.C. SEE HTTP://WWW.MPEGLA.COM

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The software that is eligible for the following GNU General Public License (hereinafter referred to as “GPL”) or GNU Lesser General Public License (hereinafter referred to as “LGPL”) are included in the camera.
This informs you that you have a right to have access to, modify, and redistribute source code for these software programs under the conditions of the supplied GPL/LGPL.
Source code is provided on the web. Use the following URL to download it.
http://www.sony.net/Products/Linux/
We would prefer you do not contact us about the contents of source code.

Read “license2.pdf” in the “License” folder on the CD-ROM. You will find licenses (in English) of “GPL”, and “LGPL” software.
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http://www.adobe.com/
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  - MEMORY STICK PRO-HG DUO, “Memory Stick Micro,” “MagicGate,” MAGIC GATE
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