Cyber-shot® Digital Still Camera

FEATURES

2/3" 8.0 Megapixel Super HAD™ CCD
Super HAD (Hole Accumulation Diode) CCDs provide excellent image quality by allowing more light to pass to each pixel, increasing sensitivity and reducing noise.

4 Color System
Sony’s Red/Green/Blue + Emerald (RGB+E) system captures color more like human color perception for more accurate and lifelike images.

Carl Zeiss® Vario Sonnar® T* Lens
Famous for sharpness and color accuracy, the lens features 12 elements in 9 groups including 3 aspheric elements. Special T* coatings greatly reduce internal reflections for more natural and vibrant images.

7X Optical Zoom Lens
With a focal length from 28mm wide angle to 200mm telephoto (35mm equivalent), the mechanically coupled 7X zoom lens covers a wide range of shooting conditions without the need for additional lenses. Selectable Precision Digital (2X/14X total) or Smart Zoom™ feature (3X at VGA size) extend the flexibility. The fast f2.0~2.8 aperture enhances available light and short depth of field flexibility.

Real Imaging Processor
Sony’s Real Imaging Processor CPU converts RGB+E input to ideal RGB, and manages image control and power consumption. Because it’s optimized for Digital Camera functions, it provides outstanding image quality, extraordinary speed and improved battery life.

Dual Media Compatibility
The DSC-F828 is capable of using not only Memory Stick® Media and Memory Stick PRO™ Media when capturing images, but also CompactFlash® Type I/II as well as Microdrive media. This offers added flexibility and storage options when taking pictures.

MPEG Movie VX Fine Modes
Captures VGA (640 x 480) high frame rate (up to 30 frames per second in Fine Mode) audio/video clips with length limited only by the capacity of the media. Video mail mode captures smaller file sizes suitable for email.

NightShot® Infrared System and NightFraming System
Capture infrared digital images in total darkness at up to 10 feet away. By illuminating the subject with infrared light and removing the CCD’s IR cut filter, detailed images can be captured even in total darkness. For capturing beautiful color images in low or no light, NightFraming illuminates the subject with the NightShot® Infrared System for proper framing, focuses with the Hologram AF™ feature and illuminates the scene with the flash.

Hologram AF™ Illuminator
Projecting a Class 1 laser pattern, Hologram AF illuminator reads the contrast between the pattern’s edge and the subject for precise focuses, even in low or no light situations.

Manual Exposure Controls
Flexible Exposure control is provided with Aperture Priority (f2.0~8.0), Shutter Priority (30sec–1/3200 sec) and Manual Exposure modes. Exposure Value Compensation (EV) and Flash output level control allow for even more control over your images.

Continuous Auto Focus
To maintain accurate focus lock with fast moving subjects, Continuous AF keeps focusing from the time the camera is turned on until the moment of exposure.

Slow Shutter Noise Reduction
During long exposures, those longer than 1/25 second, the camera captures two exposures with each press of the shutter button. The first exposure captures the scene, and the second exposure captures the CCD noise pattern with a dark frame exposure. By subtracting the two, even long exposures can be clear.

RAW Mode & Data Converter
Capture raw data directly from the CCD before any in-camera processing, while a separate JPEG is stored for viewing convenience. Sony’s RAW converter software provides extensive control of gamma, white balance, color and sharpness for fine tuning the image.

Advanced Accessory Shoe and ACC Terminal
Connect Sony’s HVL-F32X flash or remote controls with the ACC Terminal, or synchronize other flash units or studio lighting with the Hot Shoe Terminal.

STEP-UP FEATURE
**ADDITIONAL FEATURES**

- 3 Shot Auto Exposure Bracketing
- 3:2 Aspect Ratio Mode
- 7 Shot Burst Mode
- 14-Bit DXP A/D Conversion
- Adjustable Color Saturation/Contrast
- AE Lock
- Clear Color/Clear Luminance NR
- Flash White Balance
- Flexible Spot Focus
- Jog Dial® Navigation
- Live Histogram Display
- MPEG1 Cue, Review and Divide
- Multi-Burst Mode
- Multi-Pattern Measuring
- Pre-Flash Metering
- Program Shift
- Rechargeable InfoLithium® Battery
- Scene Selection Mode
- Video Output

**SPECIFICATIONS**

- **Imaging Device:** 2/3" 8.0 Megapixel Effective Super HAD™ CCD
- **Recording Media:** Memory Stick™ Media, Memory Stick PRO™ Media, Microdrive and CompactFlash® Type I/II Media
- **Zoom:** 7X Optical, 2X Digital, 0 - 5X Smart Zoom™ Feature*, Up to 35X Total Zoom*
- **Filter Diameter:** 58mm
- **Focal Length:** 7.1 – 51mm
- **35mm Equivalent:** 28 – 200mm
- **Aperture:** f2.0 – 2.8
- **Focus:** Selectable Multi-Point AF with Manual Select
- **Minimum/Macro Focus Distance:** 19.7" (50 cm)/ 3\(\frac{1}{4}\)" (0.5m - 4.5m)
- **Focus:** 13 Step, f2.0 – 2.8
- **Shutter Speed:** Auto (1/8 – 1/2000 sec), Program Auto (1 – 32000 sec)
- **Manual Exposure:** ±2.0 EV, 1/3 EV Step
- **Color LCD:** 1.8" 134k Pixels Low Temperature Polysilicon TFT
- **Eye-Level Finder:** Hi-Speed TTL 0.44" 235K Pixels Precision TFT LCD
- **Flash Modes:** Auto/Forced On/Forced Off/Slow Synchro
- **Red-Eye Reduction:** Off/On
- **Flash Effective Range:** 19 ¾" - 14 9 ¾" (0.5m - 4.5m)
- **White Balance:** Auto, Daylight, Cloudy, Fluorescent, Incandescent, Flash, One-Push Manual
- **Picture Effects:** Solarize, Sepia, Negative Art
- **ISO:** Auto, 64, 100, 200, 400, 800
- **Scene Modes:** Twilight, Twilight Portrait, Landscape, Portrait
- **Self-Timer:** Yes, 10 Seconds
- **Video Output:** Yes, NTSC/PAL Selectable
- **Still Image Modes:** JPEG (Fine/Standard), TIFF, RAW, Burst, Auto Bracketing, Email, Voice Memo
- **MPEG Movie Mode:** MPEG VX (640 x 480 Standard, 16 fps/Fine, 30fps) with Audio, Video Mail (160 x 112, 8fps) with Audio
- **Microphone/Speaker:** Yes/Yes
- **USB Terminal:** Yes, Supports USB 2.0 High Speed
- **Memory Stick PRO™ Media Compatibility:** Tested to support up to 1GB media capacity; does not support Access Control security function
- **Battery Type/Capacity:** InfoLithium® NP-FM50 1180mAh Rated
- **Supplied Software:** Pixela ImageMixer™ Software for Sony v1.5, RAW Converter Software, USB Driver
- **OS Compatibility:** Microsoft® Windows® 98, 98SE, 2000, XP Home and Pro, Macintosh® 9.1/ 9.2/ X (10.0, 10.1, 10.2)**
- **Supplied Accessories:** NP-FM50 InfoLithium® Rechargeable Battery, AC-L15 AC Adapter/In-Camera Charger, A/V and USB Cables, Lens Hood, Lens Cap with Strap, Shoulder Strap, Software CD-ROM
- **Dimensions:** 5 ¾" x 3 ¾" x 6 ½" (134.4 x 91.1 x 156.7mm)
- **Weight:** 2.12 lbs (955g) with accessories
- **OPTIONAL ACCESSORIES**

**Recording Capacities**

<table>
<thead>
<tr>
<th>Recording Media</th>
<th>Memory Stick® Media</th>
<th>Memory Stick PRO™ Media</th>
<th>Microdrive</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAW Fine/Standard</td>
<td>16MB</td>
<td>32MB</td>
<td>64MB</td>
</tr>
<tr>
<td>3264 x 2448 (8MP)</td>
<td>0/0</td>
<td>1/1</td>
<td>3/3</td>
</tr>
<tr>
<td>3264 x 2176 7MP (3:2)</td>
<td>0/0</td>
<td>1/1</td>
<td>3/3</td>
</tr>
<tr>
<td>2592 x 1944 (5MP)</td>
<td>0/0</td>
<td>1/1</td>
<td>3/3</td>
</tr>
<tr>
<td>2048 x 1536 (3MP)</td>
<td>0/0</td>
<td>1/1</td>
<td>3/3</td>
</tr>
<tr>
<td>1280 x 960 (1MP)</td>
<td>0/0</td>
<td>1/1</td>
<td>3/3</td>
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<tr>
<td>640 x 480 (VGA)</td>
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<td>JPEG Fine/Standard</td>
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<td>6/11</td>
<td>12/23</td>
<td>25/48</td>
</tr>
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<td>10/18</td>
<td>20/37</td>
<td>41/74</td>
</tr>
<tr>
<td>1280 x 960 (1MP)</td>
<td>24/46</td>
<td>50/93</td>
<td>101/187</td>
</tr>
<tr>
<td>640 x 480 (VGA)</td>
<td>97/243</td>
<td>190/491</td>
<td>394/985</td>
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<tr>
<td>MPEG Movie VX Fine</td>
<td>640 x 480 (30 fps)</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>640 x 480 (16.6 fps)</td>
<td>42 s</td>
<td>1 m 27 s</td>
<td>2 m 56 s</td>
</tr>
<tr>
<td>Video Mail (160 x 112)</td>
<td>11 m 12 s</td>
<td>22 m 42 s</td>
<td>45 m 39 s</td>
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</tbody>
</table>

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Available storage capacity of Memory Stick and Memory Stick PRO media may vary. A portion of the memory is used for data management functions.

Actual available memory in MBs is: 16=15, 32=30, 64=61, 128=123, 256=220, 512=460, 1GB=940MB

Not all products with USB connector may communicate with each other due to chip variations.

* Depending upon resolution.

** Supplied RAW Software not compatible with Macintosh.