Digital Handycam® Camcorder

The DCR-TRV33 is a spectacular option for those looking for great video and stills in a compact camcorder. Offering a 1.0 Megapixel CCD imager, this high quality camcorder delivers 10X Optical/120X Digital Zoom and Carl Zeiss® optics for incredible picture clarity.

FEATURES

1.0 Megapixel (Gross) Advanced HAD™ CCD Imager
1/4.7” Advanced HAD (Hole Accumulation Diode) CCD imager with 690K (effective) pixels provides excellent detail and clarity, with exceptional digital video performance (520 lines of horizontal resolution). Realize great looking digital still images utilizing 1000K (effective) pixels. The Megapixel technology enhances your digital videos and digital still photography performance.

MiniDV Recording
MiniDV digital recording format delivers 3X the color bandwidth of VHS and lower signal to noise ratio compared to analog formats, providing stunning video performance comparable to DVD.

Ultra Compact Design
This new, unique design complements the product's ultra compact size while providing easy, comfortable access to the video controls.

Professional Quality Carl Zeiss® Vario-Sonnar® Lens
Carl Zeiss lenses have an advanced optical multi-layer coating offering less glare and flare with increased contrast. This results in vivid image brilliance, true-to-life color saturation and perfect rendition of subtle tones.

10X Optical/120X Precision Digital Zoom
The optical zoom brings the action close up from far away. In addition, precision digital zoom interpolation technology means that extreme digital zooming is clearer, with less distortion than previous types of digital zoom.

2.5” SwivelScreen™ Touch Panel LCD Display (123K Pixels)
The 2.5” SwivelScreen touch panel LCD display provides excellent viewing clarity with improved resolution. The 123K pixel LCD rotates up to 270-degrees for multiple viewing angles providing sharp detailed images for monitoring or playback. The “On Screen” touch panel system allows you to navigate through the camera’s menu system at the touch of the LCD screen.

Color Viewfinder (113K)
Provides a clear, color view of video subjects, and makes spotting or following subjects easier.

Digital Still Memory Mode with Memory Stick® Media
Digital Still Memory Mode captures high quality Megapixel still images at 1152 x 864 or 640 x 480 resolution directly to Memory Stick media. Images are stored in the JPEG format providing easy transfer to PCs for emailing, printing, or sharing with family and friends. 8MB Memory Stick media is supplied.

MPEG Movie EX Mode
Unlike earlier MPEG1 Movies, MPEG Movie EX will allow you to record uninterrupted to the full capacity of the Memory Stick® media. For example a 128MB Memory Stick will record up to 85 minutes of non-stop MPEG1 video.

USB Streaming
Stay connected with family and friends by broadcasting live video with audio, via the Internet with the USB interface. You can even playback your favorite recorded scene stored on tape. It's like having your own web camera or video conferencing system.

i.LINK® DV Interface (IEEE1394)
A high speed bi-directional digital video/audio communication between two compatible devices equipped with an IEEE1394 interface, including camcorders, digital VTRs, capture cards, and PCs.

Progressive Shutter System
A mechanical shutter system that provides Progressive Scan performance while utilizing an interlaced scanning system, digital still images will be sharp and clear with excellent definition.

Super SteadyShot Picture Stabilization System
An advanced version of Sony’s SteadyShot® system that controls an even higher range of shake and vibration frequencies, to achieve an even higher level of smoothness without degradation of video like some other image stabilization systems.

Super NightShot Infrared System and Color Slow Shutter
With Sony’s NightShot infrared system, capture video in total darkness (0 lux) up to 10 feet away. Super NightShot 0 Lux recording mode automatically adjusts the shutter speed to increase picture brightness and clarity. Color Slow Shutter mode allows you to record in low light situations with full color detail by slowing down the shutter speed.

Playback Zoom
During video playback, pause mode or while viewing still images stored on Memory Stick media, you can zoom in up to 5X closer. These newly cropped images can be stored on Memory Stick media.

Analog-to-Digital Conversion with Pass-Through
Convert and/or record any analog NTSC video source to digital video via the analog inputs. Analog NTSC video can also be passed-through the digital Handycam camcorder directly into a PC via the i.LINK interface in real time for easy PC editing of your analog footage.
SONY

Sony Electronics Inc.
16765 West Bernardo Drive
San Diego, CA 92127
www.sony.com/di

DCR-TRV33

ADDITIONAL FEATURES

12-Bit/16-Bit PCM Digital Stereo
14-Bit DXP A/D Conversion
Battery Information
Digital Picture Effects
EXIF 2.2
Fader Effects
InfoLithium Battery with AccuPower™ Meter System
Intelligent Accessory Shoe
Pixela ImageMixer Software
Program AE (Auto Exposure) Modes
Simultaneous Record Mode
Stamina Battery Power Management System

SPECIFICATIONS

Imaging Device: 1/4.7” 1,070K Gross Pixels, Advanced HAD™ CCD Video Actual: 690K Still Actual: 1,000K F: 1.8-2.0
Focal Distance: 3.7-37mm
35mm Conversion: 50-500mm (Camera Mode) 42-420mm (Memory Mode)
Filter Diameter: 30mm
Optical Zoom: 10X
Digital Zoom: 120X
Focusing: Full Range Auto/Manual (Touch Panel)
Minimum Illumination: 7 Lux (0 Lux with NightShot Infrared System)
NightShot Infrared System: Super NightShot, Color Slow Shutter
Shutter Speed: 1/4-1/4000 (Program AE Mode)
Memory Mode: Yes, 1152 x 864, 640 x 480
MPEG Movie EX Mode: Yes
Viewfinder: Color (113K Pixels)
LCD: 2.5” Color (123K Pixels)
Accessory Shoe: Yes (Intelligent)
Video Input/Output: Yes/Yes (Mini and S-Video)
Audio Input/Output: Yes/Yes i.LINK® DV Interface (IEEE1394): Yes
USB Terminal: Yes
Memory Stick PRO™ Media Compatibility: Tested to support up to 1GB media capacity; does not support high speed transfer function; does not support Access Control security function
USB Streaming: Yes
Headphone Jack: Yes (Mini, Stereo)
Mic-Input: Yes (Stereo)
White Balance: Auto, Outdoor, Indoor, Hold
Exposure: Yes/Touch Panel (24 Step)
Software OS Compatibility: Microsoft® Windows® 98SE, 2000, Me, XP; Macintosh® 8.5.1 - 9.1**
Power Consumption (VF/LCD/VF+LCD): 3.3W/4.1W/4.3W
Dimensions (WHD): 2 ⅞” x 3 ⅜” x 4 ⅝” (71mm x 90mm x 112mm)
Weight: 1 lb 2 oz (540g) without Tape and Battery
Supplied Accessories: AC-L15 Power Adapter/In Camera Charger, NP-FM30 InfoLithium Rechargeable Battery, 8MB Memory Stick™ Media, RMT-814 Wireless Remote Commander® Remote, 2 AA Batteries, A/V Cable, Lens Cap, Shoulder Strap, USB Cable, LCD Cleaning cloth, CD-ROM with USB Driver (Pixela ImageMixer Ver. 1.5)

BATTERY LIFE

<table>
<thead>
<tr>
<th>Battery* (Fully charged)</th>
<th>Rec Time</th>
<th>Playback Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>VF/LCD/VF+LCD</td>
<td>LCD On/Off</td>
<td></td>
</tr>
<tr>
<td>NP-FM30</td>
<td>90/70/70 (min)</td>
<td>100/135 (min)</td>
</tr>
<tr>
<td>NP-FM50</td>
<td>150/120/110 (min)</td>
<td>160/220 (min)</td>
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<tr>
<td>NP-FM70</td>
<td>310/250/240 (min)</td>
<td>335/450 (min)</td>
</tr>
<tr>
<td>NP-QM71D</td>
<td>365/290/275 (min)</td>
<td>390/530 (min)</td>
</tr>
<tr>
<td>NP-FM90</td>
<td>475/380/360 (min)</td>
<td>505/685 (min)</td>
</tr>
<tr>
<td>NP-QM91D</td>
<td>550/445/420 (min)</td>
<td>585/785 (min)</td>
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</tbody>
</table>
*Results may vary depending upon conditions

MEMORY MODE

<table>
<thead>
<tr>
<th>Memory Stick™ Media</th>
<th>Fine/Std (1152 x 864)</th>
<th>Fine/Std (640 x 480)</th>
<th>Memory Stick PRO™ Media</th>
<th>Fine/Std (1152 x 864)</th>
<th>Fine/Std (640 x 480)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8MB</td>
<td>15/37</td>
<td>50/120</td>
<td>256MB</td>
<td>460/1050</td>
<td>1450/3650</td>
</tr>
<tr>
<td>16MB</td>
<td>30/74</td>
<td>96/240</td>
<td>512MB</td>
<td>900/2050</td>
<td>2900/7200</td>
</tr>
<tr>
<td>32MB</td>
<td>61/150</td>
<td>190/485</td>
<td>1GB</td>
<td>1850/4200</td>
<td>5900/14,500</td>
</tr>
<tr>
<td>64MB</td>
<td>120/300</td>
<td>390/980</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>128MB</td>
<td>245/600</td>
<td>780/1970</td>
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</tr>
</tbody>
</table>

MPEG MOVIE EX MODE

<table>
<thead>
<tr>
<th>Memory Stick™ Media</th>
<th>Email Mode (160 x 112)</th>
<th>Presentation Mode (320 x 240)</th>
<th>Memory Stick PRO™ Media</th>
<th>Email Mode (160 x 112)</th>
<th>Presentation Mode (320 x 240)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8MB</td>
<td>5m 20s</td>
<td>1m 20s</td>
<td>256MB</td>
<td>2h 50m 40s</td>
<td>42m 40s</td>
</tr>
<tr>
<td>16MB</td>
<td>10m 40s</td>
<td>2m 40s</td>
<td>512MB</td>
<td>5h 41m 20s</td>
<td>1h 25m 20s</td>
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<tr>
<td>32MB</td>
<td>21m 20s</td>
<td>5m 20s</td>
<td>1GB</td>
<td>11h 22m 40s</td>
<td>2h 50m 40s</td>
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<tr>
<td>64MB</td>
<td>42m 40s</td>
<td>10m 40s</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>128MB</td>
<td>1h 25m 20s</td>
<td>21m 20s</td>
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</tr>
</tbody>
</table>

OPTIONAL ACCESSORIES

AC-SCQ950D AC Quick Charger for Super Quick Batteries
NP-QM71D/91D Super Quick High Capacity InfoLithium Batteries
NP-FM50/70/90 High Capacity InfoLithium Batteries
LCS-VA1 Carrying Case
MSA-16/32/64/128 Memory Stick™ Media
MSA-128S2 Memory Stick® Select Media
MSX-256/512/1GB Memory Stick PRO™ Media
HVL-IR2 NightShot Infrared Light
HVL-S3D Video Light
VCT-870RM Remote Control Tripod

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