

SONY



DCR-PC109

Digital Handycam® Camcorder

Sony's compact DCR-PC109 Handycam® Camcorder offers a 1.0 Megapixel CCD Imager, 2.5" Touch Panel LCD Screen, Carl Zeiss® optics and USB Streaming. Producing excellent still image quality and superb digital video that help you shoot, play and share your precious memories. In addition, stay connected to your computer and AC Power with the Handycam® Station.

FEATURES

1.0 Megapixel (Gross) Advanced HAD™ CCD Imager

MEGAPIXEL ENGINE 1/5" Advanced HAD™ (Hole Accumulation Diode) CCD with 690K (effective) pixels provides excellent detail and clarity, with exceptional video performance **(up to 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

Offers up to 520 lines of horizontal resolution, 3X color bandwidth (vs. VHS) and significantly higher S/N ratio, to provide stunning video performance.

10X Optical/120X Digital Zoom

The optical zoom helps to bring the action up close from far away. In addition, the digital zoom interpolation means that extreme digital zooming is clearer, with less distortion than previous types of digital zooms.

▶ Handycam® Station

Placing the DCR-PC109 on the supplied Handycam Station provides a quick and easy connection between the camcorder and a TV/VCR for easy viewing, or a USB or i.LINK® supported computer for video and still image editing. It also supplies power to the camcorder for charging the battery.

2.5" Hybrid SwivelScreen™ LCD Display (123K Pixels)

25" Hybrid LCD monitor Provides excellent viewing clarity with improved resolution. The 123K pixel LCD display makes images sharp and detailed during playback or when monitoring recording. The Hybrid Reflective-Transmissive LCD Screen provides accurate viewing in sunlight or bright light, virtually eliminating the "wash-out" common with traditional LCD Screens.

Picture Package™ Software

Easily create fun music videos with the supplied software.

Digital Still Memory Mode with Memory Stick Duo™ Media

DIGITAL STILL MEMORY MODE Capture digital still images at 1152 x 864 or 640 x 480 resolution, directly onto Memory Stick Duo™ media for easy transfer to PC's for emailing, printing, or sharing with other compatible Memory Stick™ devices.

Professional Quality Carl Zeiss® Vario-Tessar® Lens

ZEISS 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 renditions of subtle tones.

Progressive Shutter

Mechanical shutter system that provides Progressive Scan performance while utilizing an interlace scanning system. Digital still images will be sharp and clear with excellent definition.

Easy Handycam Button

Easy Handycam Using a camcorder can be intimidating for some people, so with a press of the Easy Handycam button, most of the functions of the camcorder are "locked out" leaving only the buttons essential for recording operational.

Super NightShot Plus Infrared System

Super NightShot plus O.I.Lux An advanced version of Sony's NightShot® Infrared system that allows users to record natural color images in low-light conditions, but without the blurring common with other low-light recording systems.

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.

Battery Information

Battery Info Battery information is momentarily displayed without having to power on the camcorder. Quickly access the battery's status by pressing the Battery Info button. The Recording Time Available is displayed in minutes on either the LCD screen or in the viewfinder.

InfoLithium® Battery with AccuPower™ Meter System

InfoLITHIUM Charge the battery at any time because unlike NiCad (Nickel Cadmium) batteries Sony's rechargeable Lithium-Ion batteries are not subjected to a life shortening "memory effect". Sony's exclusive AccuPower™ meter displays the battery time remaining in minutes, in the viewfinder or the LCD screen.

Super SteadyShot Image Stabilization System

Super Steady Shot 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.

i.LINK®* DV Interface (IEEE1394)

DIGITAL VIDEO INTERFACE A high speed bi-directional digital video/audio communication between two compatible devices equipped with an IEEE1394 interface, including camcorders, digital VTRs and PCs (found on Handycam® Station).

12-Bit/16-Bit PCM Digital Stereo

16-Bit offers the same outstanding sound quality as compact disc. 12-Bit recording enables you to add an additional audio track with compatible audio dubbing equipment or i.LINK®* interface compatible computers.

MPEG EX Movie Mode

MPEG MOVIE EX Unlike earlier MPEG1 Movies, MPEG EX Movie Mode will allow you to record uninterrupted to the capacity of the Memory Stick Duo™ Media. These movies are perfect for emailing to friends and family.

▶ STEP-UP FEATURE

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ADDITIONAL FEATURES

Built-In Lens Cover	Multi-Language Menu
Digital Audio/Video Fader	PictBridge™ Compatibility
Digital Program Editing	Program AE (Auto Exposure) Modes
Intelligent Accessory Shoe	USB Streaming

SPECIFICATIONS

Imaging Device: 1/5" 1070K Pixel Advanced HAD™ CCD
Video Actual: 690K Pixels
Still Actual: 1000K Pixels
F: 1.8 – 2.3
Focal Distance: 3.2 – 32mm
35mm Conversion: 46 – 460mm (Camera Mode)
 38 – 380mm (Memory Mode)
Filter Diameter: 25mm
Optical Zoom: 10X
Digital Zoom: 120X
Focusing: Full Range Auto/Manual (Touch Panel)
Minimum Illumination: 7 lux (0 lux with Super NightShot Plus Infrared System)
NightShot® Infrared System: Super NightShot Plus
Shutter Speed: 1/4 – 1/4,000 (AE Mode)
Viewfinder: Color, 123K Pixels
LCD: 2.5" (123K) Hybrid Color
Accessory Shoe: Intelligent
Video Input/Output: Yes/Yes (Mini, and S-Video (Handycam Station))
Audio Input/Output: Yes/Yes (Stereo, Special)
i.LINK® DV Interface (IEEE1394): Yes
USB: Yes
Memory Stick PRO Duo™ Media Compatibility: Tested to support up to 512MB media capacity; does not support high speed transfer function; does not support Access Control security function
USB Streaming: Yes
LANC (Accessory) Terminal: Yes (Stereo, Mini)
Headphone Jack: N/A
Mic. Input: Yes (Stereo/Mini)
White Balance: Auto/Outdoor/Indoor/One Push
Exposure: Manual, Touch Panel (24 Steps)
Power Consumption (VF/LCD/VF+LCD): 2.9W/3.2W/3.3W
Software OS Compatibility: Microsoft® Windows® 98SE, Me, 2000 Professional, XP Home and Pro
 Macintosh® OS X (10.1.5 or later)**
Dimensions (WHD): 2" x 3 7/8" x 3 7/8" (50 x 98 x 97mm)
Weight: 13 oz. (385g) without Tape and Battery
Supplied Accessories: AC-L25 Power Adaptor/ In Camera Charger, NP-FF51 InfoLithium® Rechargeable Battery, RMT-831 Wireless Remote Commander® Remote Control, USB Cable, Handycam Station, MSG-M8A Memory Stick Duo™ Media, MSAC-M2 Memory Stick Duo Adapter, CR2025 Battery, Multi A/V Cable, LCD Cleaning Cloth, CD-ROM USB Driver (Picture Package™ Software v.1.0 for Sony)

SONY

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BATTERY LIFE

Battery* (Fully charged)	Continuous Record Time VF/LCD/LCD Bklt Off/VF+LCD	Continuous Playback Time LCD On/Off
NP-FF51	110/100/110/95 min	125/140 min
NP-FF50	95/85/95/85 min	110/125 min
NP-FF70	205/185/205/180 min	225/260 min
NP-FF71	225/205/225/195 min	250/285 min

*Results may vary depending upon conditions



MEMORY MODE



Memory Stick Duo™ Media¹	Fine/Std 1152 x 864	Fine/Std 640 x 480	Memory Stick PRO Duo™ Media¹	Fine/Std 1152 x 864	Fine/Std 640 x 480
8MB	15/37	50/120	256MB	445/1000	1400/3550
16MB	30/74	96/240	512MB	900/2050	2850/7200
32MB	61/150	190/485			
64MB	120/300	390/980			
128MB	245/600	780/1970			



MPEG MOVIE EX MODE

h=hour, m=minute, s=second

Memory Stick Duo™ Media	Email Mode (160 x 112)	Presentation Mode (320 x 240)	Memory Stick PRO Duo™ Media	Email Mode (160 x 112)	Presentation Mode (320 x 240)
8MB	5m 20s	1m 20s	256MB	2h 50m 40s	42m 40s
16MB	10m 40s	2m 40s	512MB	5h 41m 20s	1h 25m 20s
32MB	21m 20s	5m 20s			
64MB	42m 40s	10m 40s			
128MB	1h 25m 20s	21m 20s			

OPTIONAL ACCESSORIES

ACC-DVP MiniDV Starter Kit	VF-R25NK Filter Set
LCS-VA5 Carrying Case	MSH-M64A, MSH-M128A Memory Stick Duo™ Media
NP-FF51/71 High Capacity InfoLithium® Batteries	MSX-M256A, MSX-M512A Memory Stick PRO Duo™ Media
VCL-0625S Wide Angle Lens	
VCL-2025S Telephoto Lens	
VCL-TW25 Twin Conversion Lens	

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¹ 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: 8=7.5, 16=15, 32=30, 64=61, 128=123, 256=220, 512=460

* i.LINK is a trademark of Sony, used only to designate that a product contains an IEEE1394 connector. All products with an IEEE1394 connector may not communicate with each other.

** Not compatible with USB Streaming.