

HDR-CX900/B

HD Camcorder with 1" sensor

Welcome to broadcast-quality HD video from the palm of your hand. The 1" image sensor is approximately 8x larger than that of typical camcorders for capturing defocused backgrounds and true cinematic depth. It's flexible, too. Record your vision in XAVCS (up to 50Mbps), AVCHD or MP4 codecs with impressive clarity and color accuracy. There's nothing else like it in the industry.



Key Features

1" Exmor R® CMOS sensor w/ Direct Pixel Read Out

The world's first 1.0" CMOS sensor featuring an Exmor R® CMOS image sensor technology. With this back-illuminated technology, the sensor doubles light sensitivity and combines with Sony's Column A/D Conversion to reduce noise by half — a great help when photographing in dimly lit environments. Markedly reduced noise is evident even when high-sensitivity settings are used for capturing night landscapes or indoor scenes.

14MP resolution video and 20MP still image capture

Create cinematic video with 14MP resolution sensor (for video) and high quality 20MP still images.

Versatile shooting w/ XAVC-S, AVCHD and MP4 codecs

The HDR-CX900 records HD movies in the XAVC-S format, which uses MPEG-4 AVC/H.264 for video compression and linear PCM for audio compression, while saving files in a MP42 wrapper. The highly compressed files allow extensive record times. The camcorder also records in AVCHD, ideal for quality video for HDTV and Blu-ray disc burning. Additionally, the camcorder can shoot MP4 HD video, which is ideal for sharing over the internet at up to 28Mbps. Having the ability to switch between all three of three formats makes this camcorder an ideal tool that is versatile for creating content to live in a number of different environments.

Carl Zeiss® Vario Sonnar T* lens w/ 12x optical zoom

The HDR-CX900 comes equipped with a newly developed Carl Zeiss® Vario-Sonnar T* lens that has cleared a series of tough performance tests. Not only is this 29mm wide-angle lens ideal for capturing grand landscapes, but it covers wide-ranging image expression thanks to maximum 12x optical zoom and 24x Clear Image zoom

Multi-interface Accessory Shoe for system accessories

Users can expand photographic and movie shooting possibilities by attaching optional accessories via the Multi Interface Shoe, including an electronic viewfinder, powerful external flash and stereo microphone. You can also connect with a compatible remote control via Multi Terminal.

BIONZ® X Processor enables high Speed rec 120fps

The new BIONZ® X image processor enables the camcorder to create more naturally vivid and lifelike image quality, and higher resolution imagery.

Notable features of BIONZ X technology include:

1. Detail reproduction technology optimally filters edges and textures differently depending on the scene.
2. Area specific noise reduction swiftly and efficiently analyzes the subject and reduces noise.

This new image processing technology achieves an even better balance of exceptional detail and advanced noise control.

Its ability to record at 120p enables slow-motion playback at one-fifth the speed in a 24p environment in post-processing.

Optical SteadyShot™ Image Stabilization w/ Active Mode

Optical SteadyShot™ Image Stabilization with Intelligent Active Mode is an advanced optical image stabilization technology that corrects camera shake to capture scenes with phenomenal smoothness and stability. Intelligent Active Mode analyzes video frames and provides compensation with assistance from the new BIONZ® X image processing engine. Whether recording movies while strolling on vacation, shooting while chasing a child, or zooming in to capture faraway subjects, Handycam's simple solution smoothly reproduces the scene with a higher level of stability.

High contrast 0.39" OLED EVF for eye-level framing

The HDR-CX900 employs high contrast a 0.39" OLED Tru-Finder EVF which reproduces rich color and deep black. A new optical design of the EVF, using four dual-surface aspherical lenses, allows for a 33-degree wide angle view that is amazing clear through the edge of the view finder.

Large 3.5" Xtra Fine LCD™ (921K)

The 3.5" (16:9) Xtra Fine LCD™ screen (921K) displays sharp, bright, vivid images, letting you compose a shot more easily -- even outdoors, while enabling you to change settings to best represent the scene.

Simple connectivity to smartphones via Wi-Fi®/NFC

Connectivity with smartphones for One-touch sharing/One-touch remote has been simplified with Wi-Fi®/NFC control. In addition to Wi-Fi® support for connecting to smartphones, the HDR-CX900 also supports NFC (near field communication) providing "touch connection" convenience when transferring images to Android™ smartphones and tablets. Users need only touch devices to connect; no complex set-up is required. Moreover, when using Smart Remote Control — a feature that allows shutter release to be controlled by a smartphone — connection between HDR-CX900 and the smartphone can be established by simply touching devices.

Specifications

Camera	
Camera Type	Prosumer HD Camcorder with 1" sensor
Imaging Sensor	
Imaging Sensor	1" (13.2mm x 8.8mm) back-illuminated Exmor R® CMOS Sensor
Processor	BIONZ® X image processor
Pixel Gross	Approx.20.9M pixels
Color Filter System	RGB primary color filters
Recording	
Media Type	SDXC Memory Card(Class 10) (XAVC S); Memory Stick PRO Duo (Mark 2);Memory Stick XC-HG Duo; Memory Stick PRO Duo (Mark 2); SD/SDHC/SDXC Memory Card(Class 4 or Higher)
Still Image Mode	JPEG
Still Image Max Effective Resolution	20.0 megapixels
Still Image Size 16:9	Movie Mode: 20.0 megapixels 16:9 (5024 x 2824); Photo Mode: 20.0 megapixels 16:9 (5024 x 2824)
Still Image Size 4:3	Photo Mode: 15.0 megapixels 4:3 (4464 x 3352)
Video Mode	XAVC-S: MPEG4-AVC/H.264; AVCHD ver.2.0 compatible:MPEG4-AVC/H.264; MP4: MPEG-4 AVC/H.264
Video Resolution	XAVC-S HD : 1920x1080/60P, 30P, 24P;AVCHD:1920x1080/60p(PS),24p(FX,FH),60i(FX,FH), 1440x1080/60i(HQ,LP); MP4: 1280x720 30p
Video Actual (Pixel)	Approx.14.2M pixels(16:9)
Video Signal	4K (UHD TV), HDTV, NTSC color, EIA standards
Photo Capture from Movie	2.1 megapixels 16:9 (1920x1080)
Dual Record	Yes
Audio Format	MPEG-4 Linear PCM 2ch(48kHz/16bit) (XAVC S 4K only); Dolby Digital 5.1ch, Dolby Digital 5.1 Creator (AVCHD only); Dolby Digital 2ch Stereo, Dolby Digital Stereo Creator (AVCHD only)
Microphone/Speaker	Built-in Zoom Microphone; Monoroal Speaker
Dual Video Recording	Yes

Mic Level Control	Yes (31steps)
Still Image File Format	DCF Ver.2.0 compatible, Exif Ver.2.3 compatible, MPF Baseline compatible
Wind Noise Reduction	Yes (On/off)
Optics/Lens	
Lens Type	Carl Zeiss Vario Sonnar T*
Lens Stabilization	Optical SteadyShot™ image stabilization w/ Active mode (Wide to Tele)
Aperture	F2.8-F4.5
Optical Zoom	12x
Digital Zoom	160x
Filter Diameter	62mm
Minimum Focus Distance	Approx.1cm(Wide),Approx.100cm(Tele)
Aperture Blade	7 blades
Direct Manual Focus	Yes
Clear Image Zoom	24x
ND Filter	
ND Filter	OFF, 1/4, 1/16, 1/64
Viewfinder	
Field of View	1
LCD Display	
LCD Type	3.5" Xtra Fine LCD™ display(921K) (16:9) touch screen
Angle Adjustment	Opening Angle: max.90 deg., Turning Angle: max.270 deg.
Brightness Control	Yes (Menu)
Coverage	100%
Grid Display	Grid Line
Focus Control	
Focus System	Contrast AF
AF Modes	Auto / Manual (Touch Panel / Dial)
Focus Area	Full range Focus / Spot Focus
Manual Focus Assist	Magnified display for precise manual focus; Peaking Display, Tracking Focus
Focus Features	Tracking Focus
Exposure System	
Metering Modes	Multi-segment / Spot
Exposure Compensation	AE Shift(Dial/Touch Panel)
Exposure Settings	Auto; Flexible Spot (Touch Panel); Manual (Dial / Menu)
Noise Reduction	Yes
White Balance Mode	Auto / Onepush / Outdoor / Indoor / WB Temp
Auto Iris Control	F2.8-F11
Backlight Compensation	Yes (Auto)
Gain Control	Auto/Manual
LOW LUX Mode	Yes
Manual Iris Control	F2.8-F11
WB Shift	Yes(G7-M7 15steps, A7-B7 15steps)
Drive System	
Drive Mode	Photo Mode:Single-shot/Self-timer
Convenience Features	
Manual / Auto Lens Cover	Lens Cap
S/S Zoom button on LCD	Yes (Touch Panel)
Self Timer	Yes
Red-Eye Reduction	Yes (On/Off)

Fader Effect(s)	White / Black
Date / Time Stamp	Yes (Rec Date and Time, Camera info)
Erase/Protect	Yes / Yes
Media/Battery Indicator	Yes(recordable time, free and used media space)/Yes(recordable time, remaining capacity)
Power Save Mode	Yes
Still Image Playback Options	Slide Show
Video Playback Options	Highlight Playback (AVDHD Movie Only); Highlight Scenario (Save/Playback/Erase); Highlight BGM (Preinstalled 4 music files, Music transfer)
Built-in USB Cable	Yes (USB Charge Available)
Multiple Language Display	English; Brazilian Portugese; Canadian French; Spanish
Picture Effects	Yes
Remote Control	Yes
Self Recording	Yes
Advanced Features	
Assignable Dial	Yes(Exposure / AE Shift / WB Temp. / WB B-A / WB G-M Set)
Tracking Focus	Yes
AGC Limit	Yes
Airplane Mode	Yes
Audio Level Display	Yes
CinemaTone Gamma/Color	Yes
Face Detection	Yes
Golf Shot	Yes (AVCHD only)
Image Stabilization	Optical SteadyShot™ image stabilization w/ Active mode (Wide to Tele)
Intelligent Auto	Portrait / Baby / Walk / Tripod / Backlight / Landscape / Spotlight / Twilight / Macro / Low light / Auto Wind Noise Reduction
My Voice Canceling	Yes
NightShot® Infrared System	Yes
Premium Closer Voice	Yes
Priority Setting (for Face Detection)	Auto/OFF
S-Master	Yes
Smile Shutter™ technology	Dual Capture / Always On / Off
Smooth Slow Rec	Yes (AVCHD only)
Wi-Fi	Built-In (Wi-Fi Compatible, IEEE 802.11b/g/n(2.4GHz band)
Wi-Fi Functionality	Remote control with mobile device, send to smartphone, send to PC (with optional wi-fi accessory)
x.v.Color™	Yes
Interface	
Memory Card Slot	SDXC Memory Card(Class 10) (XAVC S); Memory Stick PRO Duo (Mark 2);Memory Stick XC-HG Duo; Memory Stick PRO Duo (Mark 2); SD/SDHC/SDXC Memory Card(Class 4 or Higher)
NFC	Yes
Wi-Fi	Yes
SD Output	Composite Video Out (AV CABLE (sold separately))
HD Output	HDMI Out (micro)(supplied)
USB Port(s)	TypeA (built-in) / USB2.0 Hi-speed (mass-storage/MTP)
BRAVIA® Sync™	Yes
PhotoTV HD	Yes
Headphone Jack	Stereo Minijack
Microphone Input	Stereo Minijack
Direct Copy	Yes (AVCHD only)

Accessory Shoe	Yes (Multi Interface Shoe)
DC IN	Yes
HDMI Terminal	Yes (HDMI micro)
Power	
Power Requirements	6.8V/7.2V (battery pack); 5.0V (AC Adapter)
Battery Type	InfoLITHIUM with AccuPower Meter System (V Series)
Software	
Operating System Compatibility	Windows XP SP3 /Windows Vista SP2 /Windows7 64-bit editions and Starter (Edition) are not supported. The Windows Image Mastering API (IMAPI) Ver. 2.0 or later is required to use the function for creating discs. Starter (Edition) are not supported. Standard installation is required. Operation is not assured if the above OS has been upgraded or in a multi-boot environment.
Accessories	
Supplied Accessories	Rechargeable Battery Pack (NP-FV70) (1) AC adapter (AC-L200) (1) Power Cord (1) Operating Guide (1) HDMI(micro) Cable (1) USB Connection Support Cable (1) Remote Commander(RMT-835 with Battery(CR2025)) (1) Lens Hood (1) Lens Cap (1)

1. Requires NFC-compatible mobile device. Check device's user manual for compatibility.
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