

HDR-CX190/B

The easy-to-use HDR-CX190 ultra-lightweight Handycam® camcorder records stunning 1920x1080p Full HD video and 5.3MP pictures. It's stabilized 25X/30X Extended digital zoom lens gets you closer to the action. And a back-illuminated Exmor R® CMOS sensor allows you to capture stunning imagery in low light conditions.



Bullets

- 1920x1080 Full HD Recording w/5.3MP still image
 - Back-illuminated Exmor® CMOS sensor for superb low-light video
 - SteadyShot® image stabilization w/ Active Mode
 - Get the shots you want with wide angle Carl Zeiss® Vario-Tessar® lens
 - 25x Optical/30x Extended Zoom to get even closer to the action
 - 2.7" Clear Photo LCD™ display (230K)
 - Event Browse groups video/stills by events automatically
 - Highlight Playback creates movies with transitions for you
 - Intelligent Auto (60 different scene combinations possible)
 - Direct Copy to external HDD without PC¹³
 - Built-in USB cable for easy file transfer/charge
 - Large caliber speakers for immersive audio experience
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Features

1920x1080p Full HD Recording w/5.3MP still image capture

The Sony® HDR-CX190 offers 1920 x 1080p high definition resolution letting you record your memories in exceptional Full High Definition quality. With Dual Capture you can also take 5.3MP still images while shooting HD movie.

Back-illuminated Exmor R® CMOS sensor for superb low-light video

Experience stunning low-light sensitivity with improved image clarity and drastically reduced grain with Sony's back-illuminated Exmor R® CMOS sensor. Designed for compact cameras and camcorders, the Exmor R® CMOS sensor relocates the photo diodes above the support circuitry, maximizing the light gathering area per pixel so you can shoot with better results in lower lighting conditions.

SteadyShot® image stabilization w/ Active Mode

SteadyShot® image stabilization with Active Mode compensates for greater degrees of camera shake to deliver stunningly smooth video from wide angle to full telephoto shooting. In addition, innovative 3-Way Shake-Canceling adds electronic roll stability for even smoother video capture

30x Extended Zoom to get even closer to the action

Extended Zoom works in conjunction with 25x optical zoom to get even closer to the action while maintaining HD image quality.

2.7" Clear Photo LCD™ display (230K)

The 2.7" Clear Photo LCD™ screen 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.

Built-in USB cable for easy file transfer/charge

The high-speed, built-in USB 2.0 cable allows for easy connection to your computer for charging or file transfer without having to remember separate cables. It also fits conveniently into the hand strap so it's out of the way until you need it. Charging your camcorder is faster than ever now through the USB; for every two minutes of charge time you get one minute of recording time.

Intelligent Auto (60 different scene combinations possible)

Intelligent Auto mode goes a step beyond traditional auto modes by analyzing your shot and then automatically selecting the appropriate settings from nine distinct scene modes (60 different combinations possible): Portrait/Baby/Tripod/Backlight/Landscape /Spotlight/Twilight/Macro/Low light.

Event Browse groups photos/videos for you for easy reference

Event Browse conveniently groups your images and videos together for easier viewing. The date range that Event Browse groups your pictures and videos is easily adjusted to suit your needs. When used with the Highlight Playback feature, making and sharing a highlight reel from your event is easy and fun.

Highlight Playback creates movies with transitions for you

Why spend hours editing your movies when you can let your camcorder do it for you? Highlight Playback identifies and compiles key scenes into a short, entertaining movie complete with music and transitions. You can even pinpoint the exact scene you want to include in the highlight reel.

Direct Copy to external HDD without PC¹³

Store your memories in a whole new way with the ability to copy videos from your camcorder directly to an external hard disk drive¹³ (sold separately), all without a computer. Your camcorder can also access videos stored on the external hard drive for playback on your HDTV⁴, allowing you to utilize the camcorder's handy playback features.

Specifications

Camera					
Camera Type	Digital HD Video Camera Recorder	Still Image Size	4:3	Microphone/ Speaker	Built-in Zoom Microphone; Monoral Speaker
Imaging Sensor		Video Format	HD: MPEG4-AVC/H.264 AVCHD 2.0 format compatible; STD: MPEG2-PS	Mic Level Control	Yes (2steps)
Imaging Sensor	1/5.8" (3.1mm) Back-illuminated Exmor R [®] CMOS Sensor	Video Mode	HD FX: Approx. 24Mbps / FH: Approx. 17Mbps / HQ: Approx. 9Mbps / LP: Approx. 5Mbps; STD HQ: 9Mbps	Still Image File Format	DCF Ver. 2.0 compatible, Exif Ver. 2.3 compatible, MPF Baseline compatible
Processor	BIONZ [™] Image processor	Video Resolution		Wind Position	Yes(Off/On)
Pixel Gross	Approx.1500K pixels	Video Actual (Pixel)	Approx.1310K pixels(16:9), Approx.980K pixels(4:3)	Optics/Lens	
Effective Picture Resolution	Approx.1310K pixels(16:9)	Video Signal	NTSC color, EIA standards	Lens Type	Carl Zeiss [®] Vario-Tessar [®] Lens
Color Filter System	RGB primary color filters	Photo Capture from Movie	2.1 megapixels 16:9 (1920x1080); 0.3 megapixels 4:3 (640x480); 0.2 megapixels pixels 16:9 (640x360)	Lens Stabilization	SteadyShot [®] image stabilization w/ Active Mode (wide to tele)
Recording		Dual Record	5.3 megapixels 16:9 (3072 x 1728); 1.3 megapixels 16:9 (1536 x 864)	Aperture	F1.8-3.2
Media Type	Memory Stick PRO Duo [™] (Mark 2); Memory Stick PRO-HG Duo [™] ; SD/ SDHC/ SDXC Memory Card (Class 4 or Higher)	Audio Format	Dolby [®] Digital 2ch Stereo, Dolby [®] Digital Stereo Creator	Optical Zoom	25x
Still Image Mode	JPEG			Digital Zoom	300x
Still Image Max Effective Resolution	5.3 megapixels			Focal Length (35mm equivalent)	Movie Mode: 36mm - 1080mm (16:9), 44mm-1320mm (4:3); Photo Mode: 36mm - 900mm (16:9), 44mm-1100mm (4:3)
Still Image Size 16:9	Movie mode:5.3 megapixels 16:9 (3072x1728); Photo mode: 5.3 megapixels 16:9 (3072x1728)			Minimum Focus Distance	Approx. 1cm (Wide), Approx. 80cm (Tele), Approx. 39cm (Tele Macro)
				Extended Zoom	30x

Focal Distance	f = 2.5mm - 62.5mm; f = 1/8inch - 2 1/2inch
Steady Shot Mode:Active	43.2mm - 1080mm
LCD Display	
LCD Type	2.7" Clear Photo LCD ^(TM) display (230K) Wide(16:9)
Angle Adjustment	Opening Angle: max. 90 deg., Turning Angle: max. 270 deg.
Brightness Control	Yes (Menu)
Coverage	1
Grid Display	Guide Frame
Focus Control	
Focus System	Contrast AF
AF Modes	Auto / Manual (Menu)
Focus Area	Full range Focus
Exposure System	
Metering Modes	Multi-segment
Exposure Settings	Auto
Scene Mode(s)	Auto/Night Scene/Sunrise & Sunset/Fireworks/ Landscape/ Portrait/Spotlight/ Beach/Snow
D-Range Optimizer	Yes
Noise Reduction	Yes
White Balance Mode	Auto / Onepush / Outdoor / Indoor
Minimum Illumination	Standard: 11 lux (1/60 Shutter Speed); Low Lux: 3 lux (1/30 Shutter Speed)
Auto Iris Control	F1.8 - F10
Backlight Compensation	Yes (Auto)
Gain Control	Auto
LOW LUX Mode	Yes
Drive System	
Drive Mode	Photo Mode: Single-shot / Self-timer
Self-timer	10sec.(Still Image)
Shutter Speeds	Self-timer: Approx. 10sec. (Still Image); Shutter Speed (Standard): 1/60 - 1/10000; Shutter Speed Auto Control Range: 1/8 - 1/10000; Scene Selection: 1/8 - 1/10000; LOW LUX: 1/30 - 1/10000
Convenience Features	

Quick On	Yes (Power On by LCD)
Manual / Auto Lens Cover	Manual
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)
Still Image Playback Options	Slide Show
Video Playback Options	Highlight Playback (HD Movie Only); Highlight Playback Save and Share (Translate into STD quality); 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; Simplified English; Brazilian Portugese; Canadian French; Latin American Spanish
One Touch Disc Burn	Yes (Menu)
View & Index	Event
Advanced Features	
Tracking Focus	Yes
Face Detection	Yes
Image Stabilization	SteadyShot [®] image stabilization w/ Active mode (Wide to Tele)
Intelligent Auto	Portrait/Baby/ Tripod/Backlight/ Landscape/ Spotlight/Twilight/ Macro/Low light
Priority Setting (for Face Detection)	Auto / Child Priority / Adult Priority
Smile Shutter TM technology	Dual Capture / Always On / Off
x.v.Color TM	Yes
Interface	
Memory Card Slot	Memory Stick PRO Duo TM and SD/ SDHC/ SDXC media compatible
SD Output	Composite Video Out(A/V connecting cable(supplied))
HD Output	HDMI Out (mini) (sold separately)

USB Port(s)	TypeA, mini-AB/ USB2.0 Hi-speed (mass-storage/ MTP)
BRAVIA [®] Sync TM	Yes
PhotoTV HD	Yes
Remote Jack	Integrated into A/V Remote terminal
A/V Remote Terminal	Video / Audio / Remote
DC IN	Yes
HDMI Terminal	Yes (mini)
Dimensions (Approx.)	
Dimensions (Approx.)	Approx.2 1/8inch x 2 1/4inch x 4 1/2inch (Approx. 51mm x 56mm x 114mm)
Weights and Measurements	
Weight (Approx.)	Approx. 5.9oz (168g)
Power	
Power Consumption (in Operation)	HD: 2.1W; STD: 1.9W
Power Requirements	6.8V/7.2 (battery pack); 8.4V (AC Adaptor)
Battery Type	InfoLITHIUM [®] with AccuPower TM Meter System (NP-FV30)
Software	
Supplied Software	PC: PlayMemories Home Lite (built-in; for PC only); PlayMemories Home (by download); Music Transfer(by download); MAC:Music Transfer(by download); PlayMemories Online Uploader(by download)
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.
Service and Warranty Information	

Limited Warranty Term	Limited Warranty --- 1 Year Parts; 90 Days Labor
Weights and Measurements	
Dimensions (Approx.)	Approx. 2 1/8inch x 2 1/4inch x 4 1/2inch (Approx. 51mm x 56mm x 114mm)
Weight (Approx.)	Approx. 7.5oz (NP-FV30 (supplied battery)); Approx. 7.9oz (NP-FV50); Approx. 9.4oz (NP-FV70); Approx. 12.9oz (NP-FV100)
Accessories	
Optional Accessories	Rechargeable InfoLITHIUM Batteries (NP-FV50 / FV70 / FV100) AC Adaptor / Charger for V series batteries (AC-VQV10) Travel Charger (BC-TRV) Tripod (VCT-80AV)
Supplied Accessories	Rechargeable Battery Pack (NP-FV30) (1) AC adaptor (1) Power Cord (1) A/V Connecting Cable (1) USB Connection Support Cable (1) operating guide (1)

1. 1GB equals 1 billion bytes, a portion of which is used for data management functions

4. Requires HDTV and HDMI cable sold sep.

7. Map service provided by Google and subject to change without notice.

9. For PC: Requires Microsoft® Windows® XP SP3/ Windows Vista® SP2/Windows 7. For Mac: Requires Mac OSX (v10.5-10.7)

13. Requires via VMC-UAM1 cable (sold separately), AC power for camcorder, and hard drive formatted in FAT-32. USB-hub not supported. External HDD/USB media should be less than 2TB(Terabytes).

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