

# SONY

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## HDR-CX240/L

### Entry Level Full HD 60p Camcorder

Make it memorable with Sony Full HD/60p quality. Capture amazing footage in low light and control, transfer and backup everything via Wi-Fi® with NFC in just a touch. Get close to the action with a 27x zoom, wide-angle Carl Zeiss lens and say goodbye to shake with Steady Shot™ image stabilization. It's the perfect starter camera.



### Key Features

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#### **1920x1080 Full HD 60p w/9.2MP Exmor R® CMOS Sensor**

Create high definition 1920 x 1080 60p videos and high quality 9.2MP still images. Experience stunning low-light sensitivity with improved image clarity and drastically reduced grain with Sony's back-illuminated ExmorR® 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.

#### **29.8mm wide angle Carl Zeiss® Lens**

From the authority in lens technology, the Carl Zeiss® Vario-Sonnar® T lens provides a high quality 29.8mm wide angle so you can get everything you want in the shot.

#### **27x Optical/54x Clear Image Zoom to get even closer to the action**

Get amazingly close with 27x optical zoom plus 54x Clear Image digital zoom. Most digital zooms use electronic cropping to get closer to the subject, resulting in unsharp images. With Clear Image Zoom the powerful processor compares patterns found in adjacent pixels and creates new pixels to match selected patterns, resulting in more realistic, higher-quality images. Clear Image Zoom doubles optical zoom for closer photos and video.

#### **2.7" Clear Photo LCD™ display (230K)**

The 2.7" (16:9) Clear Photo LCD™ (230K) 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.

#### **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

#### **Face Detection with voice enhancement and noise reduction**

Sony's Face Detection technology can automatically distinguish between children and adults. Face Detection technology detects up to eight individual faces and adjusts flash, focus, exposure, and white balance to help deliver crisp, properly lit images of family and friends.

#### **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.

#### **Get creative w/ 7 picture effects for video and still photos**

Picture Effects add a new level of expression to video and photos, making ordinary landscapes and portraits come to life by heightening mood and emphasizing certain attributes. There are seven different effects such as partial color to make your focal point stand out, or watercolor which looks like a painting.

#### **AVCHD and MP4 dual recording for high quality and Internet ready files**

Record HD video in the AVCHD and MP4 formats for highest quality or easy transfer and sharing. AVCHD provides premium video that can be enjoyed on large screen HDTVs, and is ideal for capturing precious memories at special occasions, family vacations and other moments you want to treasure for a lifetime. MP4 is great for those moments that you want to quickly share on your social networks or store on the cloud.

## 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 ten distinct scene modes and wind noise reduction. There are 60 different combinations possible: Portrait, Baby, Tripod, Backlight, Landscape, Spotlight, Twilight, Macro, Low light.

## Specifications

Imaging Sensor	
Imaging Sensor	1/5.8" (4.6mm) back-illuminated Exmor R <sup>®</sup> CMOS Sensor
Processor	BIONZ <sup>®</sup> X image processor
Pixel Gross	Approx.2510K pixels
Effective Picture Resolution	Approx.2290K pixels(16:9)/Approx.1710K pixels(4:3)
Color Filter System	RGB primary color filters
Recording	
Still Image Mode	JPEG
Still Image Max Effective Resolution	9.2 megapixels
Still Image Size 16:9	Movie Mode: 9.2 megapixels 16:9 (4032x2272); Photo Mode: 9.2 megapixels 16:9 (4032x2272)
Still Image Size 4:3	Photo Mode: 6.9megapixels 4:3(3024x2272)
Video Mode	HD: MPEG4-AVC/H.264 AVCHD 2.0 format.compatible; STD: MPEG2-PS; MP4: MPEG-4 AVC/H.264
Video Resolution	HD:1920x1080/60p(PS),60i(FX,FH), 1440x1080/60i(HQ,LP)
Video Actual (Pixel)	Approx.2290K pixels(16:9)
Video Signal	HDTV, NTSC color, EIA standards
Photo Capture from Movie	2.1 megapixels 16:9 (1920x1080)
Dual Record	Yes
Microphone/Speaker	Built-in Zoom Microphone/Monoral Speaker
Dual Video Recording	Yes
Mic Level Control	Yes(2steps)
Movie Recording Rate(Average Bit Rate/VBR)	HD PS:Approx.28Mbps/FX:Approx.24Mbps/FH:Approx.17Mbps/HQ:Approx.9Mbps/LP:Approx.5Mbps MP4: Approx.3Mbps
Still Image File Format	DCF Ver.2.0 compatible, Exif Ver.2.3 compatible, MPF Baseline compatible
Optics/Lens	
Lens Type	Carl Zeiss Vario Tessar
Lens Stabilization	SteadyShot <sup>™</sup> image stabilization w/ Active mode (Wide to Tele)
Aperture	F1.8-F4.0
Optical Zoom	27x
Digital Zoom	320x
Focal Length (35mm equivalent)	Movie Mode: 29.8-804.0mm (16:9); Photo Mode: 29.8-804.0mm (16:9), 36.4-984.0.0mm (4:3)
Minimum Focus Distance	Approx.1cm(Wide),Approx.80cm(Tele) (13/32inch-31 1/2inch)
Clear Image Zoom	54x
LCD Display	
LCD Type	2.7" Clear Photo LCD <sup>™</sup> display (230K)
Angle Adjustment	Opening Angle: max.90 deg., Turning Angle: max.270 deg.

Brightness Control	Yes (Menu)
Coverage	100%
Grid Display	Grid Line
<b>Focus Control</b>	
Focus System	Contrast AF
AF Modes	Auto/Manual
Focus Area	Full range Focus
<b>Exposure System</b>	
Metering Modes	Multi-segment
Exposure Settings	Auto, Manual (Menu)
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: 6 lux (1/30 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
<b>Drive System</b>	
Drive Mode	Photo Mode: Single-shot / Self-timer
Self-timer	Approx. 10sec. (Still Image)
Shutter Speeds	Shutter Speed(Standard): 1/60 - 1/10000; Shutter Speed (Auto Control Range) 1/8 - 1/100000; Shutter Speed(Manual Iris Control) 1/60 - 1/10000; Shutter Speed(Manual Shutter) 1/8 - 1/10000; Shutter Speed(Smooth Slow Rec): 1/250 - 1/10000
<b>Convenience Features</b>	
Manual / Auto Lens Cover	Manual
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 (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; Brazilian Portuguese; Canadian French; Spanish
Picture Effects	Yes
Self Recording	Yes
AGC Limit	Yes
Airplane Mode	Yes
<b>Advanced Features</b>	
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

Smile Shutter™ technology	Dual Capture / Always On / Off
x.v.Color™	Yes
<b>Interface</b>	
Memory Card Slot	Memory Stick Micro and Micro SD/SDHC/SDXC compatible
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
HDMI Terminal	Yes (HDMI micro)
<b>Weights and Measurements</b>	
Dimensions (Approx.)	Approx. 2 1/4 inch x2 3/8 inch x5 1/8 inch (Approx. 54.0mmx59.5mmx128.0mm)
Weight (Approx.)	Approx.6.7oz (Approx.190g) Main Unit Only
<b>Power</b>	
Power Consumption (in Operation)	LCD: HD:1.8W
Power Requirements	3.6V (battery pack); 5.0V (AC Adapter)
Battery Type	NP-BX1
<b>Software</b>	
Supplied Software	PC: PlayMemories Home and Music Transfer (via download); MAC: Music Transfer, PlayMemories Online Uploader, Wireless Auto Import (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.
<b>Service and Warranty Information</b>	
Limited Warranty Term	Limited Warranty --- 1 Year Parts; 90 Days Labor
<b>Accessories</b>	
Supplied Accessories	Rechargeable Battery Pack (NP-BX1) (1) USB AC adapter (1) HDMI(micro) Cable (1) USB Connection Support Cable (1) Operating Guide (1)