Sony Cybershot HX90V Camera

Sensor

SENSOR TYPE
> 1/2.3 type (7.82mm) Exmor R CMOS sensor

NUMBER OF PIXELS (EFFECTIVE)
> 18.2MP

Lens

LENS TYPE
> ZEISS Vario-Sonnar T* Lens

F-NUMBER (MAXIMUM APERTURE)
> F3.5 (W) - 6.4 (T)

FOCAL LENGTH (F=)
> f=4.1-123 mm

ANGLE OF VIEW (35MM FORMAT EQUIVALENT) (STILL IMAGE)
> 84deg.-3deg.30min.(24-720mm[2])[3]

FOCUS RANGE (FROM THE FRONT OF THE LENS)
> 5 cm - Infinity (W), 2.5 m - Infinity (T)

OPTICAL ZOOM
> 30x

CLEAR IMAGE ZOOM (STILL IMAGE)
> Still Image: 18M Approx. 2.0x / 10M Approx. 2.7x / 5.0M Approx. 3.8x / VGA Approx. 15x / 13M (16:9) Approx. 2.0x / 2.1M (16:9) Approx. 5.1x / Movie: Approx.60x

CLEAR IMAGE ZOOM (MOVIE)
> Approx. 60x

DIGITAL ZOOM (STILL IMAGE)
> Up to 120x (VGA)

Screen

SCREEN TYPE
> 3.0" (7.5 cm) (4:3) / 921,600 dots / Xtra Fine / TFT LCD

BRIGHTNESS CONTROL
> Auto, Manual (5 steps)

Viewfinder

VIEWFINDER
> 0.2-type electronic viewfinder

Camera

IMAGE PROCESSING ENGINE
> BIONZ X™

STEADYSHOT
> Optical Stedyshot

FOCUS TYPE
> Contrast detection AF

FOCUS MODE
> Single-shot AF, Continuous AF, DMF, Manual Focus

LIGHT METERING MODE
> Multi Pattern;Center Weighted;Spot

EXPOSURE COMPENSATION
> +/- 3.0 EV, 1/3 EV step

ISO SENSITIVITY (STILL IMAGE)(RECOMMENDED EXPOSURE INDEX)
> ISO 80-12800

ISO SENSITIVITY (MOVIE)

ISO 80-3200

WHITE BALANCE MODES

Auto;Daylight;Shade;Cloudy;Incandescent;Fluor.: Cool White;Fluor.: Day White;Fluor.: Daylight;Flash;Custom;One Push, One Push Set

SHUTTER SPEED

iAuto (4" - 1/2000) / Program Auto (1" - 1/2000) / Aperture Priority (8" - 1/2000) / Shutter Priority (30" - 1/2000) / Manual (30" - 1/2000)

SHOOTING MODE

Intelligent Auto;Superior Auto;Program Auto;Aperture Priority;Shutter Speed Priority;Manual Exposure;MR (Memory Recall) 1,2,3;Movie Mode (Program Auto, Aperture Priority, Shutter Speed Priority, Manual Exposure);Panorama;Scene Selection

SCENE SELECTION

Portrait;Advanced Sports Shooting;Landscape;Sunset;Night Scene;Handheld Twilight;Night Portrait;Anti Motion Blur;Pet Mode;Gourmet;Beach;Snow;Fireworks;Soft Skin;High Sensitivity

CONTINUOUS SHOOTING SPEED (MAXIMUM) (WITH MAX. RECORDING PIXELS)

10 fps (for up to 10 shots)

SELF-TIMER

Off / 10sec. / 5sec. / 2sec. / 3 consecutive shots with 10sec. 5sec. or 2sec. delay selectable / 3 consecutive bracketing shots with 10sec. 5sec. or 2sec. delay selectable

PANORAMA (SHOOTING)

Intelligent Sweep Panorama (supports 360 format)[4]

PICTURE EFFECT

Movie: Toy camera;Pop Color, Posterization, Retro Photo, Soft High-key, Partial Color, High Contrast Mono., Soft Focus, HDR Painting, Richtone Monochrome, Miniature, Watercolor, Illustration / Still Image: Toy camera, Pop Color, Posterization, Retro Photo, Soft High-key, Partial Color, High Contrast Mono., Soft Focus, HDR Painting, Richtone Monochrome, Miniature, Watercolor, Illustration

Flash

FLASH MODE

Auto / Flash On / Slow Synchro / Rear Sync / Flash Off

FLASH TYPE

Built-in, manual pop-up

BRACKETING

Yes

FLASH RANGE

ISO Auto: Approx. 0.3m to 5.4m (W) / Approx. 2.5m to 3.0m (T)

Recording

COMPATIBLE RECORDING MEDIA

Memory Stick Duo;Memory Stick PRO Duo;Memory Stick PRO Duo(High Speed);Memory Stick PROHG Duo;Memory Stick Micro;Memory Stick Micro (Mark2);SD Memory Card;SDHC Memory Card;SDXC Memory Card(UHS-I);microSD Memory Card;microSDHC Memory Card;microSDXC Memory Card

RECORDING FORMAT

Still Image: JPEG(DCF Ver.2.0,Exif Ver.2.3,MRF Baseline complians);Movie: XAVC S, AVCHD format Ver.2.0 compatible, MP4

MOVIE RECORDING MODE (NTSC)

NTSC Mode: AVCHD (up to 1,920x1,080/60p at 28Mbps) / XAVC S (up to 1,920x1,080/60p at 50Mbps) / MP4 (up to 1,920x1,080/60fps at 28Mbps);PAL Mode: AVCHD (up to 1,920x1,080/50p at 28Mbps) / XAVC S (up to 1,920x1,080/50p at 50Mbps) / MP4 (up to 1,920x1,080/50fps at 28Mbps)

MOVIE RECORDING MODE (PAL)

PAL Mode: AVCHD (up to 1,920x1,080/50p at 28Mbps) / XAVC S (up to 1,920x1,080/50p at 50Mbps) / MP4 (up to 1,920x1,080/50fps at 28Mbps)

STILL IMAGE RESOLUTION

3:2 mode: 16M (4,896×3,264) / 8.9M (3,648×2,432) / 4.5M (2,592×1,728), 4:3 mode: 18M (4,896×3,672) / 10M (3,648×2,736) / 5M (2,592×1,944) / VGA, 16:9 mode: 13M (4,896×2,752) / 7.5M (3,648×2,056) / 2.1M (1,920×1,080), 1:1 mode: 13M (3,664×3,664) / 7.5M (2,736×2,736) / 3.7M (1,920×1,920), Sweep Panorama: Wide (7,152×1,080/4,912×1,920), Standard (4,912×1,080/3,424×1,920), 360(11,520×1,080)

Interface

INPUT AND OUTPUT TERMINALS

Hi-Speed USB (USB2.0), Micro HDMI$_5$, Multi/Micro USB Terminal

NFC

One-touch remote, One-touch sharing

WIRELESS CAPABILITIES

NFC One-touch functionality, Wi-Fi

Power

POWER CONSUMPTION (CAMERA MODE)

Approx. 1.4W with LCD monitor and Approx. 1.5W with viewfinder (CIPA standard)

BATTERY LIFE(STILL IMAGES)(CIPA)

Up to 390 shots / 195 minutes

SUPPLIED BATTERY

Rechargeable Battery Pack NP-BX1

Others

PHOTO CREATIVITY

Yes

PLAYBACK FUNCTIONS

BRAVIA Sync (Control for HDMI);Auto Orientation;Slide Show;Forward/Rewind (Movie);Delete;Protect;Motion Shot Video;Beauty Effect;9/25-frame index view

GPS

GPS

Yes

Size & Weight

DIMENSIONS (W X H X D) (APPROX.)

102.0 x 58.1 x 35.4 mm

WEIGHT (CIPA COMPLIANT)

218 g (Body only), 245 g (With battery and media)

Colour Options

black

What's In The Box

- Rechargeable Battery Pack NP-BX1
- AC AdaptorAC-UB10C/UB10D
- Micro USB cable
- Wrist Strap
- Instruction Manual
- AC Power Code

FEATURES

30x zoom lens with ZEISS® quality built in

The result of over a century and a half of ZEISS expertise in high-precision optics is perfectly clear: this 24-720mm [6] lens renders portrait, close-up, and landscape images in natural glory from every perspective, with vivid sharpness and contrast intact. ZEISS T* multi-layer anti-reflective coating effectively eliminates surface ghosting and flare.

Exmor R™ CMOS sensor for extra sensitivity

The more light is allowed to strike a sensor, the more brilliant a resulting image will look. So the Exmor R CMOS sensor with 18.2 effective megapixels employs back-illuminated design to let four times more light in than a more conventional sensor, is twice as sensitive to light, and even features Sony Column A/D Conversion technology to reduce image noise.

BIONZ X™ for more detail and less noise

To transform data from the Exmor R CMOS sensor into high-resolution images, the BIONZ X image processor integrates detail reproduction, diffraction-reducing and area-specific noise reduction technologies. This combination makes it possible to reproduce realistic images of truer colours and textures with exceptional precision in real time.

OLED Tru-Finder™ improves the view

The high-contrast OLED Tru-Finder is far brighter than more conventional electronic viewfinders; now features even more compact dimensions; displays real-time preview and various shooting information, so that what you see onscreen is exactly what you'll get in your shot; and is retractable for portability, safety and practicality.

180-degree tiltable LCD monitor for easy framing

The high-resolution LCD on the camera back can be tilted up to 180 degrees. So when you're in front of the camera, you can easily view the LCD to check the framing before you shoot a selfie, for example. This flexibility also lets you comfortably maintain stress-free posture while monitoring a scene that you want to shoot from a low angle.

One-touch remote and one-touch sharing

One-touch remote lets you use your smartphone or tablet as a viewfinder and remote control for a digital camera, and one-touch sharing lets you transfer your photos and videos from your camera. Either way, by installing Imaging Edge Mobile[7] app to your NFC-enabled Android smartphone or tablet, you can avoid complex set-up sequences and establish wireless connection simply by touching your device to the camera. You are now ready to control your camera from your smartphone to take a photo from a previously out-of-reach spot, or simply be in your own group shot, as well as transfer them instantly to your smartphone for sharing on SNS. No NFC? No problem. You can also pair the devices manually.

Learn more

More flexible movie formats

In addition to high definition AVCHD format, the camera can capture movies detailing extra-smooth action and high-quality sound with great fidelity to the original sources with XAVC S [8] format.

GPS charts your course

The built-in GPS geotags photos and movies, so you can track your trip's shooting locations precisely.

Control ring and grip take hold

For fuller-scale operability, you can assign frequently used manual focus, step zoom, quick zoom and other functions to the control ring around the circumference of the lens in front, then access and use those functions instantly as needed when shooting. Moreover, the camera grip has been ergonomically designed for optimal handling stability at all times.

Intelligent Active Mode keeps blur away

Have no fear of handheld movie shooting. Intelligent Active Mode, featuring Sony's advanced frame-analysis technology and 5-axis [9] image stabilisation, compensates for camera shake. This mode reduces the blurriness that tends to occur in images when shooting handheld or shooting while chasing a subject in action.

P/A/S/M modes for exposure as you like it

Put your creative intentions in motion with Programmed AE (P)/Aperture priority (A)/Shutter-speed priority (S)/Manual (M) exposure modes. These modes provide you with all the flexibility that you need to manually control exposure and adjust background blur in order to capture the image that you're looking for.

Customisable settings for personal command

Assign frequently used functions (Focus mode, White Balance, Picture Effect, etc.) to customisable buttons and keys for easier, quicker access to such functions while shooting. For example, you can assign 12 functions to the Function button, then press it, choose a function, and adjust function parameters via the control ring or rear control wheel.

Extra-speedy & precise Fast Intelligent AF

An improved spatial object detection algorithm realises a more optimal and accurate lens drive to make AF even faster, for capturing more fleeting moments with ease.

Digital level gauge for even framing

The camera's digital level gauge uses easy-to-read graphics to indicate clearly whether the camera is level and enables fine adjustment of horizontal alignment during shooting. It's useful for avoiding the occurrence of camera roll, to help ensure that your shots look steady and well-framed.

PlayMemories Camera Apps [10] add personality

Enhance your creative expression with PlayMemories Camera Apps, offering a growing range of enjoyable applications that are easy to download. Not only do these apps give you greater functionality — they are the ultimate means of personalising your camera to fulfill your photographic aims. Note: Services availability depends on region.

Works with iMovie and Final Cut Pro X

This product is compatible with Final Cut Pro X and iMovie. [11]

RECENTLY VIEWED ITEMS