

DSC-HX20V/B

Get extremely close with the ultra-stabilized 20X optical/40X Clear Image zoom on the Sony® DSC-HX20V, and capture detailed pictures and Full HD 1080/60p videos with its 18.2MP sensor. Picture Effects, Photo Creativity, 3D Still Image, and 3D Sweep Panorama modes expand creative options, and a built-in GPS lets you share your journeys.

18.2MP Exmor® R CMOS sensor

The 18.2MP Exmor® R CMOS sensor captures ultra-high definition images that take full advantage of the camera's sharp Sony® G lens. An advanced BIONZ processor rapidly analyzes the Extra-High Sensitivity data from the sensor, and activates By-Pixel Super Resolution technologies to reduce noise levels up to 6X compared to previous CMOS sensors, resulting in stunning low light images with incredible details.

High speed AF

To improve focusing speed and sensitivity, the Exmor R® CMOS sensor uses its rapid throughput to deliver high-quality image signals to the camera's BIONZ® processor. The result is fast, DSLR-like focusing speeds, even in low light.

Optical zoom plus Clear image 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.

Full HD 1080/60p

Record crystal clear movies at the highest resolution available with capabilities for 60i in 1080 AVCHD™ video.¹ This provides stunning, fast motion video with less distortion for playback on your HD TV.² With dual record of stills and movies, you can shoot both at the same time.

Optical SteadyShot™ image stabilization with 3-way Active Mode

Optical SteadyShot™ image stabilization reduces shake and blur by countering camera movements in both horizontal and vertical directions. Active 3-Way stabilization adds digital rolling control that counters clockwise and anti-clockwise rotation, resulting in more stable videos even at long focal lengths.

GPS and Compass

GPS and compass record location data and camera direction as you shoot movies and photos. GPS Log lets users track a photographic journey and later view the path and images on a map. Map View in "PlayMemories Home" software, allows users to view images on a map showing where they were taken. The logged path and images can also be displayed on Google Earth.

Capture the decisive moment with up to 10fps

Capture full 18.2 megapixel resolution images at up to 10 frames per second, helping to ensure that the decisive moment is captured such as the soccer ball flying into the goal. In addition, a mechanical shutter helps reduce distortion when continuously shooting moving subjects.

3D Still Image and 3D Sweep Panorama™ mode

Produce awe-inspiring images with 3D Still Image and 3D Sweep Panorama™ capabilities.³ Photos will take on a new dimension of creative capabilities for viewing the world in a whole new way.

Picture Effect

Picture Effect adds a new level of expression to photos, making ordinary landscapes and portraits come to life by heightening mood and emphasizing certain attributes. Select camera models have up to nine different effects.

Photo Creativity

Photo Creativity allows you to fine-tune your exposure settings, such as brightness, color, and vividness, and quickly choose the right enhancement for your subject. Now you can view Picture Effects and Photo Creativity effects in real time on the camera's monitor or in the viewfinder before shooting.

Background Defocus

DSLR photographs are often beautiful because they blur the background, putting the emphasis on the subject. Now our point-and-shoot cameras can deliver this signature DSLR benefit. The system takes two shots, identifies the background and applies a defocused background keeping the subject crisp and clear

Superior Auto mode

Specifications

| | | | | | | | | | |
|--------------------------------------|--|--|--|--|--|--|--|--|--|
| Camera | | | | | | | | | |
| Camera Type | High Zoom | | | | | | | | |
| Imaging Sensor | | | | | | | | | |
| Imaging Sensor | 1/2.3" Exmor® R CMOS Sensor | | | | | | | | |
| Processor | BIONZ® | | | | | | | | |
| Pixel Gross | 18.9MP | | | | | | | | |
| Effective Picture Resolution | 18.2MP | | | | | | | | |
| Color Filter System | RGB primary color filters | | | | | | | | |
| Recording | | | | | | | | | |
| Media Type | optional "Memory Stick Duo" (No movie recording), optional "Memory Stick PRO Duo" (Mark 2 only for movie recording), optional "Memory Stick PRO-HG Duo", optional SD Memory Card (Class 4 or higher), optional SDHC Memory Card (Class 4 or higher), optional SDXC Memory Card (Class 4 or higher) | | | | | | | | |
| Still Image Max Effective Resolution | Approx. 18.2 Megapixels | | | | | | | | |
| Still Image Size 16:9 | 13M(4,896x2,752) / 2M(1,920 x 1,080) | | | | | | | | |
| Still Image Size 4:3 | 18M(4,896x3,672) / 10M(3,648 x 2,736) / 5M(2,592 x 1,944) / VGA | | | | | | | | |
| Panorama Still Image Size | Sweep | | | | | | | | |
| Sweep Multi Angle Image Size | 2M (1,920 x 1,080) | | | | | | | | |
| Video Mode | AVCHD 60i:28M | | | | | | | | |
| Photo Capture from Movie | Yes | | | | | | | | |
| Dual Record | Yes | | | | | | | | |
| Audio Format | AC3 (Stereo) | | | | | | | | |
| Microphone/ Speaker | Stereo/mono | | | | | | | | |
| Wind Noise Reduction | Off/on | | | | | | | | |
| Optics/Lens | | | | | | | | | |
| Lens Type | Sony G | | | | | | | | |
| Aperture | f 3.2-5.8 | | | | | | | | |
| Optical Zoom | 20x | | | | | | | | |
| Focal Length (35mm equivalent) | Still 16:9: 27.5-550mm / Still 4:3: 25-500mm / Movie 16:9: | | | | | | | | |
| Lens Construction | 12 elements in 9 groups | | | | | | | | |
| Minimum Focus Distance | | | | | | | | | |
| Aspheric Elements | 4 | | | | | | | | |
| Clear Image Zoom | 40x | | | | | | | | |
| Steady Shot Mode:Active | Yes | | | | | | | | |
| LCD Display | | | | | | | | | |
| LCD Type | 3.0" Xtra Fine LCD™ TruBlack™ display (921K dots) | | | | | | | | |
| Brightness Control | 5(Bright) / 4 / 3(Normal) / 2 / 1(Dark) | | | | | | | | |
| Histogram | Yes | | | | | | | | |
| Grid Display | Yes (Off / On) | | | | | | | | |
| Focus Control | | | | | | | | | |
| AF Modes | Multi Point AF / Center Weighted AF / Flexible Spot AF / Manual / Semi Manual / Tracking Focus / Face Tracking Focus | | | | | | | | |
| AF Illuminator | Auto / Off | | | | | | | | |
| Exposure System | | | | | | | | | |
| Metering Modes | Multi Pattern / Center Weighted / Spot | | | | | | | | |
| Exposure Compensation | Plus / Minus 2.0EV, 1 / 3EV step | | | | | | | | |
| Scene Mode(s) | High Sensitivity / Soft snap / Soft Skin / Landscape / Night Portrait / Night Scene / Handheld Twilight / Gourmet / Beach / Snow / Fireworks / Pet mode / Anti-motion blur / Backlight Correction HDR / Advanced sports shooting | | | | | | | | |
| D-Range Optimizer | Standard | | | | | | | | |
| ISO | Auto / 100 / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 | | | | | | | | |
| White Balance Mode | | | | | | | | | |
| | | | | | | | | | |
| Drive System | | | | | | | | | |
| Self-timer | Off / 10sec. / 2sec. / portrait1 / portrait2 | | | | | | | | |
| Shutter Speeds | iAuto(4" - 1/1600) / Program Auto(1" - 1/1600) / Manual(30" - 1/1600) | | | | | | | | |
| Burst Mode | Approx 10 fps at 18.2MP (Maximum 10 shots) | | | | | | | | |
| Flash | | | | | | | | | |
| Flash Modes | Auto / Flash On / Slow Synchro / Flash Off | | | | | | | | |
| Flash Coverage | ISO Auto: Approx.0.4m to 7.1m(1 feet 3 3/4 inches to 23 feet 3 5/8 inches)(W) / Approx.1.7m to 3.9 m(5feet 7 inches to 12 feet 9 5/8 inches)(T), ISO3200: up to Approx.10.0 m(32 feet 9 3/4 inches)(W) / Approx.5.5 m(18 feet 5/8 inches)(T) | | | | | | | | |
| Convenience Features | | | | | | | | | |
| Red-Eye Reduction | Auto / On / Off | | | | | | | | |
| Erase/Protect | Erase: Single / Select / Date / Folder / AVCHD, Protect: Single / Select / Date / Folder / AVCHD | | | | | | | | |
| Red-Eye Reduction | Auto / On / Off | | | | | | | | |
| Erase/Protect | Erase: Single / Select / Date / Folder / AVCHD, Protect: Single / Select / Date / Folder / AVCHD | | | | | | | | |
| Advanced Features | | | | | | | | | |
| Anti Motion Blur | Yes | | | | | | | | |
| Sweep Panorama | Intelligent Sweep Panorama / 3D Sweep Panorama | | | | | | | | |
| Face Detection | 8 Faces (Auto / Off / Child Priority / Adult Priority / Key Selected Face Memory) | | | | | | | | |
| Smile Shutter™ technology | Yes | | | | | | | | |
| Image Stabilization | Optical SteadyShot™ with 3-way Active Mode Image Stabilization | | | | | | | | |
| In-Camera Editing | Trimming / Red Eye Correction / Unsharp Masking | | | | | | | | |
| Intelligent Auto | Yes | | | | | | | | |
| Shooting Tips | Yes | | | | | | | | |
| Background Defocus | Yes | | | | | | | | |
| Tracking Focus | Off / Auto | | | | | | | | |
| Blink Detection | Yes | | | | | | | | |
| Photo Creativity | Yes | | | | | | | | |
| Interface | | | | | | | | | |
| Memory Card Slot | MS Duo and SD/SDHC/SDXC Compatible | | | | | | | | |
| HD Output | Micro HDMI | | | | | | | | |
| USB Port(s) | Micro USB, Hi-Speed USB(USB2.0) | | | | | | | | |
| TransferJet | Send: Yes, Receive: Yes | | | | | | | | |
| Dimensions (Approx.) | | | | | | | | | |
| Dimensions (Approx.) | 4 1/4" x 2 1/2" x 1 3/8" (106.6mm x 61.9mm x 34.6mm) | | | | | | | | |
| Weights and Measurements | | | | | | | | | |
| Weight (Approx.) | 9.0oz (254g) | | | | | | | | |
| Weight(Approx) (Main unit only) | 2.7oz (221g) | | | | | | | | |
| Power | | | | | | | | | |
| Battery Type | LITHIUM ION NP-BG1 3.6V | | | | | | | | |
| Battery Capacity | | | | | | | | | |
| Power Consumption (in Operation) | Approx. 1.1W | | | | | | | | |
| Power Requirements | AC 100V to 240V, 50/60 Hz, 70mA | | | | | | | | |

1. Records in 29 minute segments
2. Requires HDTV and HDMI cable sold separately
3. Requires 3D HDTV, HDMI cable (at least 10.2 Gbps) and active 3D glasses sold separately.
4. Combined with electronic stabilization

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