

SONY

DSC-HX80

High-zoom Point and Shoot Camera

Get sharp detail up close with the world's smallest and lightest⁵ 30x zoom camera. There's even a pop-up electronic viewfinder for eye-level framing and a 180° tilt screen for 18.2MP selfies. Stunning picture quality comes from the low light Exmor R[®] sensor and premium ZEISS lens with 5-axis image stabilization. Then share photos instantly with built-in Wi-Fi² and NFC³.



Bullets

- 30x Optical/60x Clear Image Zoom ZEISS[®] Vario-Sonnar T* Lens
- 18.2MP Exmor R[®] CMOS Sensor for superb low light images
- Built-in retractable OLED Tru-Finder[™] viewfinder
- Versatile video¹ w/ high-quality XAVC S, AVCHD & MP4 formats
- Simple connectivity to smartphones² via Wi-Fi[®] w/NFC³
- 5-axis image stabilization greatly reduces camera shake blur
- Selfie-ready 3" Xtra Fine LCD[™] multi-angle display
- P/A/S/M modes, customizable settings and Memory Recall mode
- Enhance features w/ downloadable camera apps⁴
- Capture the decisive moment with up to 10fps

Features

30x optical zoom ZEISS[®] lens plus 60x Clear Image Digital Zoom

Get super close and clear with the premium ZEISS[®] Vario-Sonnar T* lens from wide angle (24mm equivalent) to 30x optical zoom plus 60x Clear Image digital zoom. The ZEISS T* coating reduces undesirable reflection, such as ghosting and flare, on the lens surface, while 30x optical zoom allows you to get closer to your subject. With Clear Image Zoom the powerful BIONZ[®] X 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.

Superb 18.2MP image quality

The DSC-HX80 features an 18.2 megapixel backside illuminated Exmor R[®] CMOS image sensor with a BIONZ[®] X image processor. This brings out the full resolving power of the camera's professional ZEISS[®] Vario-Sonnar T* Lens to deliver high resolution, and stunning low-light sensitivity with improved image clarity and drastically reduced grain for both stills and movie.

Built-in retractable OLED Tru-Finder[™] viewfinder

View every scene in rich detail with the high contrast and bright, pop-up OLED Tru-Finder[™] with approx. 638k dots resolution. The electronic viewfinder faithfully displays what will appear in your recording, including the effects of your camera settings, so you can accurately monitor the results. Use of aspherical lenses in the eyepiece optics raises performance and minimizes size, while a convenient eye sensor automatically switches between EVF and LCD screen, for easy operation.

High-quality movies¹ w/ XAVC S, AVCHD and MP4 codes

Capture high quality HD movies¹ in the XAVC S format. With 50Mbps Full HD (1920x1080) 60p high quality video recording, XAVC S enables beautiful video recording with minimal compression noise even in scenes with a lot of movement. Linear PCM is adopted for audio compression delivering incredible audio to match your video. The camera also records in AVCHD, ideal for HDTV and Blu-ray Disc™ burning, or your choice of highly compressed MP4 HD video ideal for web.

Simple connectivity to smartphones via Wi-Fi² and NFC³

Wi-Fi² connectivity allows you to control your camera with your compatible Smartphone or Tablet². Frame your image on your device's LCD and control the camera's shutter. You can even transfer the images taken directly to your mobile device for quick editing and uploading - sharing has never been easier. With NFC³ (near field communication) - connectivity has been simplified to one-touch. Simply touch the camera to the compatible NFC enabled device to connect.

5-axis image stabilization greatly reduces blur

Get remarkably sharp images with Sony's Optical SteadyShot™ image stabilization for both stills and video. Additionally, intelligent Active Mode combines 5-axis* image stabilization with Sony's advanced frame-analysis technology to greatly reduce blur caused by camera shake when shooting movies – allowing you to move along with the action – and get clear images of your subject in motion – even when zoomed in.

Selfie-ready multi-angle 3" Xtra Fine LCD™ display

Selfies have never been easier with a beautiful 3" (921k dots) Xtra Fine LCD™ Display that rotates up approx. 180°. Easily frame for selfies or to shoot objects like pets at eye-level without having to get down on the ground. Simply scroll through menus and preview life thanks to the large display which delivers brilliant-quality still images and movies while enabling easy focusing operation.

P/A/S/M modes, customizable settings & Memory Recall mode

For creative flexibility, you can enter Program Auto (P), Aperture Priority (A), Shutter Speed Priority (S) or Manual Exposure (M) mode for manual shooting. MR (Memory Recall) mode is available for quick manual adjustment and a control ring - that can be assigned with various functions - such as manual focusing or step zooming, allow for superior control of your shooting experience.

Enhance features w/ downloadable camera apps⁴

Get creative with PlayMemories Camera Apps™⁴ by applying exciting artistic effects or retouching images with professional results, and then easily upload your photos to Facebook® or Instagram. Enjoy added functionality with apps that include Time Lapse, Smart Remote Control, and Direct Upload.

Capture the decisive moment with up to 10fps

Never miss that decisive moment; like a bat hitting a baseball or a fleeting smile. Capture full 18.2 megapixel resolution images at up to 10 frames per second, with an ultra-fast shutter lag of Approx. 0.008 sec.

Keep your subject in focus with Lock-On AF

Lock-On AF (Auto Focus) gives you the ability to select a focus point with subject recognition, then allows the camera to track and keep your subject in sharp focus even when in motion.

Specification

Advanced Features		
Face Detection	Yes (eight faces max)	
Image Stabilization	Optical SteadyShot	
Sweep Panorama	Intelligent Sweep Panorama (supports 360 format)	
Camera		
Photo Creativity	Yes	
Picture Effect for Movie	Toy camera, Pop Color, Posterization, Retro Photo, Soft High-key, Partial Color, High Contrast Mono.	
Picture Effect for Still	Toy camera, Pop Color, Posterization, Retro Photo, Soft High-key, Partial Color, High Contrast Mono., Soft Focus, HDR Painting, Richtone Monochrome, Miniature, Watercolor, Illustration	
Number of Recognized Scene	Movie	44
	Still Image	Superior Auto: 44 / iAuto: 33
Drive System		
Continuous Shooting Speed	Approx. 10 fps (for up to 10 shots)	
Drive Mode	Single, Continuous shooting, Self-timer, Self-timer(cont.) Bracket: Continuous, Single, White balance, DRO bracketing	
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	
Shutter Speeds	iAuto (4" - 1/2000) / Program Auto (1" - 1/2000) / Aperture Priority (8" - 1/2000) / Shutter Priority (30" - 1/2000) / Manual (30" - 1/2000)	
Exposure System		
Creative Style	Standard, Vivid, Portrait, Landscape, Sunset, Black & White, Sepia	
D-Range Optimizer	Off, Dynamic Range Optimizer (Auto/Level 1-5), Auto High Dynamic Range: Off, Auto Exposure Difference, Exposure difference Level (1.0-6.0EV, 1.0EV step)	
Exposure Compensation	+/- 3.0 EV, 1/3 EV step	
Exposure Settings	[Still] 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	
ISO	[Still Image] Auto(ISO80-3200, selectable with upper / lower limit),80/100/200/400/800/1600/3200,Multi-Frame NR: Auto (ISO80-3200 same as selected range in Auto), 100/200/400/800/1600/3200/6400 /12800	
ISO Sensitivity (Movie)	Auto: (ISO80-3200, selectable with upper / lower limit),80/100/200/400/800/1600/3200	
Metering Modes	Multi Pattern, Center Weighted, Spot	
Minimum Illumination	[Movie]: Auto: 6lux (Shutter Speed 1/30)	
Noise Reduction	Long exposure NR high ISO NR: Normal / Low Multi Frame NR: Auto, ISO100-12800	
Scene Mode(s)	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	
White Balance Mode	Auto / Daylight / Shade / Cloudy / Incandescent / Fluor.: Cool White / Fluor.: Day White / Fluor.: Daylight / Flash / Custom / One Push, One Push Set / C.Temp./Filter WB micro adjustment: G7 to M7 / A7 to B7	
Flash		
Flash Coverage	ISO Auto: Approx.0.3m to5.4m(11 13/16 inches to 17 feet 8 19/32 inches)(W) / Approx.2.5m to 3.0 m(8feet 2 27/64 inches to 9 feet 10 7/64 inches)(T)	
Flash Modes	Auto / Flash On / Slow Sync. / Flash Off / Rear Sync.	
Focus Control		
AF Modes	Single-shot AF, Continuous AF (Advanced sports & Movie Only)	
Focus Area	Wide / Center / Flexible Spot (S/M/L) / Expanded Flexible Spot	
Imaging Sensor		
Color Filter System	RGB primary color mosaic filters	
Effective Picture Resolution	Approx. 18.2MP	
Imaging Sensor	1/2.3" (7.82mm) Exmor R® CMOS sensor	
Pixel Gross	Approx. 21.1MP	
Processor	BIONZ® X	
Interface		
Eye-Fi	Yes	
HD Output	Multi / Micro USB Terminal (Supports Micro USB compatible device), Hi-Speed USB (USB2.0), Micro HDMI	
NFC	NFC forum Type 3 Tag compatible, One-touch remote, One-touch sharing	
Wi-Fi	Yes (IEEE802.11b/g/n (2.4GHz band))	
LCD Display		
Angle Adjustment	Up by approx. 180 degrees	
Brightness Control	Manual (5 steps)	

LCD Type	3.0" (7.5 cm) (4:3) / 921,600 dots / Xtra Fine / TFT LCD	
Optics/Lens		
Aperture	iAuto (F3.5-F6.3(W)) / Program Auto(F3.5-F6.3(W)) / Manual (F3.5-F8.0(W)) / Aperture Priority (F3.5-F8.0(W)) / Sutter Priority (F3.5-F6.3(W))	
Aperture (Max.)	F3.5 (W) - 6.4 (T)	
Aperture Blade	Iris diaphragm (5 blades)	
Clear Image Zoom	Still Image: 18M Approx.60x / 10M Approx.80x / 5.0M Approx.113x / VGA Approx.459x / 13M (16:9) Approx.60x / 2.1M (16:9) Approx.153x Movie: Approx. 60x	
Digital Zoom	Still Image: 18M Approx.120x / 10M Approx.161x / 5.0M Approx.226x / VGA Approx.459x / 13M(16:9) Approx.120x / 2.1M(16:9) Approx.306x Movie: Approx. 120x	
Focal Length (35mm equivalent)	Focal Length: f=4.1-123mm [Still Image 3:2] f=25-750mm, [Still Image 4:3] f=24-720mm, [Still Image 16:9] f=26.5-795mm, [Still Image 1:1] f=27.5-825mm [Movie 16:9] f=26.5-795mm (SteadyShot Standard), f=28-1180mm (SteadyShot Active), f=31-1210mm (SteadyShot IntelligentActive), [Movie 4:3] f=32.5-975mm (SteadyShot Standard), f=34.5-1450mm (SteadyShot Active), 38-1480mm (SteadyShot IntelligentActive)	
Lens Groups-Elements	11 elements in 10 groups (including 5 aspheric elements)	
Lens Type	ZEISS Vario-Sonnar T* Lens	
Minimum Focus Distance	iAuto: AF (W: Approx. 5cm (0.16 ft.) to Infinity, T: Approx. 250cm (8.20 ft.) to Infinity) / Program Auto: AF (W: Approx. 5cm (0.16 ft.) to Infinity, T: Approx. 250cm (8.20 ft.) to Infinity)	
Optical Zoom	30x (Optical Zoom during movie recording)	
Steady Shot Mode: Active	Yes (Intelligent Active Mode, Optical type with electronic compensation, Anti Rolling type)	
Other Product Relationships		
Supplied Accessories	Rechargeable Battery Pack (NP-BX1) AC Adaptor (AC-UUD12) Micro USB cable Wrist Strap Instruction Manual	
Others		
4K image output	Yes (still image only)	
Digital Level Gauge	Yes (Pitch)	
Operating Speed	Start-up Time (Approx. 1.8 sec.) / Shooting Time Lag (Approx. 0.14 sec.) / Shooting Interval (Approx. 0.67 sec.) <i>(Shooting interval of maximum recorded pixels)</i>	
Other Playback Function	BRAVIA Sync (Control for HDMI), 9/25-frame index view, Auto Orientation, Slide Show, Forward/Rewind (Movie), Delete, Protect, Motion Shot Video, Beauty Effect	
Other Shooting Functions	Face Detection, Face Registration, Smile Shutter, Grid Line, Quick Navi, Digital Level Gauge (roll), WB Bracketing, DRO Bracketing, Zebra, Marker Display, Micref Level, Self-portrait timer	
Play Memories Camera Apps	Yes	
TRILUMINOS Color	Yes <i>(Models capable of extended-gamut recording and HDMI transmission function for both still images and movies)</i>	
Playback		
Maximum Playback Size	Under 18M (4,896 × 3,672)	
Power		
Battery System	NP-BX1	
Power Consumption (Camera mode)	Approx. 1.4W with LCD monitor and approx. 1.5W with viewfinder (CIPA standard)	
Power Source	DC3.6V (supplied battery) / DC5.0V (supplied AC Adaptor)	
USB Charge/USB Power Supply	Yes (with supplied AC Adaptor and supplied Battery)	
Battery Life (CIPA)	When shooting actual movie (CIPA)	Monitor: Approx. 70min., ViewFinder: Approx. 75min. (In [MP4 28M] mode, max. continuous shooting time is approx. 20 min. and max. file size is 4GB.) <i>(Continuous shooting is possible for approximately 29 minutes (limited by product specifications, default setting). Indication recording time, which is defined by repeating the cycle: Power on, start recording, zoom (except RX1), stand-by, power off.)</i>
	When shooting continuous movies (CIPA)	Monitor: Approx. 105min., ViewFinder: Approx. 115min. (In [MP4 28M] mode, max. continuous shooting time is approx. 20 min. and max. file size is 4GB) <i>(Based on non-stop recording until the limit (29 minutes or 4GB) has been reached, and then continued recording again. Shooting functions such as zoom will not be available.</i>

		<i>Continuous shooting is possible for approximately 29 minutes (limited by product specifications, default setting)</i>
	When shooting still images (CIPA)	Monitor: Approx. 390 / Approx. 195min. ViewFinder: Approx. 360 / Approx. 180min. <i>(The LCD screen is turned on, shooting once every 30 seconds, the zoom is switched alternately between the W and T ends the flash strobes once every two times, the power turns on and off once every ten times.)</i>
Print		
Exif Print	Yes	
PRINT Image Matching (PIM3)	Yes	
Recording		
Audio Format	XAVC S:LPCM 2ch) AVCHD: Dolby Digital(AC-3) 2ch(Dolby Digital Stereo Creator)) MP4: MPEG-4 AAC-LC 2ch	
Color Space	sRGB	
Media Type	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(UHS-I), SDXC Memory Card(UHS-I), microSD Memory Card*, microSDHC Memory Card*, microSDXC Memory Card* <i>* with Adaptor (optional)</i> <i>For movies, compatible Memory Stick PRO Duo (Mark2), Memory Stick PRO-HG Duo, Memory Stick XC-HG Duo, Memory Stick Micro (Mark2), SD/SDHC/SDXC memory card or microSD/microSDHC/microSDXC card (Class 4 or faster speed is recommended) can be used.</i>	
Microphone/Speaker	Stereo / mono	
Panorama Still Image Size	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)	
Still Image File Format	JPEG(DCF Ver.2.0,Exif Ver.2.3,MRF Baseline complians)	
Still Image Size 16:9	VGA, 16:9 mode:13M (4,896×2,752) / 7.5M (3,648×2,056) / 2.1M (1,920×1,080)	
Still Image Size 1:1	1:1 mode:13M (3,664×3,664) / 7.5M (2,736×2,736) / 3.7M (1,920×1,920)	
Still Image Size 3:2	3:2 mode:16M (4,896×3,264) / 8.9M (3,648×2,432) / 4.5M (2,592×1,728)	
Still Image Size 4:3	4:3 mode:18M (4,896×3,672) / 10M (3,648×2,736) / 5M(2,592×1,944)	
Video Format	XAVC S / AVCHD format Ver.2.0 compatible / MP4	
Wind Noise Reduction	Off / On	
DCF/DPOF	DCF/DPOF/EXIF/MPF	
Movie Recording Mode	AVCHD: PS - 1,920 x 1,080/60p@28Mbps FX - 1,920 x 1,080/60i@24Mbps FH - 1,920 x 1,080/60i@17Mbps FX - 1,920 x 1,080/24p@24Mbps FH - 1,920 x 1,080/24p@17Mbps XAVC S: 60p 50M (1,920 x 1,080/60p) 30p 50M (1,920 x 1,080/30p) 24p 50M (1,920 x 1,080/24p) MP4: 28M (1,920 x 1,080/60fps) 16M (1,920 x 1,080/30fps) 6M (1,280 x 720/30fps)	
Viewfinder		
Diopter Adjustment	-4.0 to +3.0m ⁻¹	
Magnification	Approx. 0.5x with 50mm lens at infinity, -1m ⁻¹ (diopter) (35mm equiv.)	
Type	0.2" electronic viewfinder (OLED), 638,400dots	
Weights and Measurements		
Dimensions (Approx.)	W x H x D: 4 1/8" x 2 3/8" x 1 7/16" (102.0 x 58.1 x 35.5mm) (CIPA compliant)	
Weight (Approx.)	Approx. 8.6oz (245g) (Battery and Memory Stick DUO are included) (CIPA compliant)	
Weight(Approx) (Main unit only)	Approx. 7.7oz (218g)	

1. Records in 29 minute segments
2. Requires PlayMemories Mobile™ app installed on compatible Android™ or iOS device.
3. Requires NFC-compatible mobile device. Check device's user manual for compatibility.
4. Requires a valid Sony Entertainment Network account. Some apps require a fee.
5. Among fixed lens point and shoot cameras with 30x optical zoom or more, as of April 13, 2015

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