BRC-H800

Full HD Pan Tilt Zoom camera with 1.0-type
Exmor R CMOS sensor (color availability
may vary by country)

Overview

The BRC-H800 remote camera combines uncompromising broadcast picture quality
and smooth, silent PTZ operation with the flexibility of 3G-SDI and HDMI connections.

Designed for unattended operation, this compact but powerful robotic camera is an
ideal complement to other broadcast cameras for capturing images in hard-to-reach or
unobtrusive positions. It's equally at home in TV newsrooms, remote studios and on-air
suites, auditoriums, houses of faith, courtrooms, classrooms, or sports stadiums. It's
also particularly suited to efficient multi-camera set-ups, under the control of a single
operator.

The 1.0-type Exmor R CMOS image sensor captures crisp, low-noise Full HD images at
60p, with excellent low-light sensitivity. The large image sensor also allows the creation
of beautiful 'bokeh' effects with a shallow depth of field to suit any artistic intention.

Speedy, near-silent PTZ operation with 12× optical zoom accommodates wide-angle
scenes and tightly framed close-ups, with Clear Image Zoom 24× (HD) extending this
range even further without visible loss of resolution. In Tele Convert Mode, 24× zoom
can be further doubled to 48× without losing HD resolution.

Broadcast-friendly features include dual tally lamps for on-air operation, while
operational flexibility is enhanced with options for ceiling, table-top, or tripod mounting.
There's also a broad range of video interfacing and remote control possibilities—plus
support for PoE+ and genlock—for smooth integration into any broadcast,
professional, or corporate AV environment.

The BRC-H800/1 and the BRC-H800/WPW are the US/Canada models which are bundled
with the AC-UES1230MT AC power supply and cord. In all other regions the AC power
supply and cord are sold separately.

Available in black as BRC-H800 and in white as BRC-H800/W (color availability may vary
by country).

Features

Accurately re-frame shots or track moving subjects with smooth, speedy, near-silent
remote control of pan, tilt and zoom functions. There's also low-speed zoom and a
slow pan/tilt mode for precise, judder-free camera movements. PTZ Trace Memory
allows a sequence of camera movements to be memorized and followed whenever

required. PTZ Motion Sync smoothly blends separate pan, tilt and zoom movements for seamless, professional-looking transitions. Upto 100 preset positions for pan/tilt/zoom operations.

The camera's large, back-illuminated 1.0-type Exmor R CMOS sensor delivers uncompromised broadcast quality color pictures in detail-packed Full HD 60p, capable of capturing sports and other fast-moving action.

The camera can also operate in 24p mode, for video footage with a rich, filmic look.

The high quality Zeiss Vario-Sonnar T lens with 12x optical zoom range covers wide angle shots as well as tight close-ups. Clear Image Zoom* expands this range to 24x (HD) without sacrificing detail. In addition, the Tele Convert Mode can double this range again, up to 48x zoom while maintaining a 1920x1080 resolution.

*Clear Image Zoom is a Sony original intelligent interpolation, which analyzes the input image and increases the resolution of the image.

The BRC-H800 can capture crisp, low noise color video images in light levels as low as 1.7lx, making it an ideal choice for dimly lit live hall and theater

Integration is simplified in a wide range of environments, with PoE+ (Power over Ethernet) to reduce cabling requirements and VISCA control over IP.

Pan/tilt/zoom and other camera settings can be controlled using the supplied IR remote commander, or with the optional RM-IP500 Remote Control Unit that can control multiple cameras.

In a studio environment, BRC-H800 can be controlled via Sony's Remote Control Panel RCP-1500/1501/1530 and MSU-1000/1500. Connection can be made over IP networks.

*The compatibility is described in the Remote Camera System Guide.

Genlock simplifies integration with other systems in multi-camera broadcast environments.

Enjoy greater installation flexibility in professional broadcast and AV environments with 3G-SDI (x2) and HDMI video outputs.

Ideal for on-air broadcast use, the BRC-H800 features dual tally lamps on the front and rear of the camera body. Brightness of the front tally lamp can be adjusted in two steps.

New camera functionality and performance improvements can be added via firmware updates over IP

SONY

Specifications

Camera	
Image Sensor	1.0-type back-illuminated Exmor R CMOS sensor
Image Sensor (Number of Effective Pixels)	Approx. 14.2 Megapixels
Image Sensor (Total Number of Pixels)	Approx. 20.4Megapixels
Signal System	1080/59.94p,1080/59.94i,720/59,94p, 1080/50p,1080/50i, 720/50p, 1080/23.98p
Minimum Illumination (50IRE)	1.7 lux (50IRE, F2.8, 1/30s, Max.Gain)
Horizontal Resolution	850 TV line (in 3G-SDI output) (center)
Gain	Auto/Manual (-3dB to +33dB)
Shutter Speed	1/10000s to 1/8 (59.94/29.97) 1/10000s to 1/6 (50/25/23.98)
Exposure Control	Auto, Manual, Priority mode (shutter priority, iris priority, gain priority), Back light, Spot light
White Balance	Auto1/Auto2/One Push/Indoor/Outdoor/Manual
Optical Zoom	12x
Clear Image Zoom	2x
Digital Zoom	No
Tele Convert Mode	Off, 2x *1920x1080 only
Focusing System	Auto/Manual
Horizontal Viewing Angle	Typ. 64.6° (Wide-end)
Focal Length	f=9.3 to 111.6mm F2.8(Wide) ,F4.5(Tele)
Minimum Object Distance	1000mm(Tele) 80mm (Wide)
Pan/Tilt Angle	Pan: ±170° Tilt: +90°/-30°
Pan/Tilt Speed	Pan: 0.3° to 60°/s Tilt: 0.3° to 60°/s
Pan/Tilt Slow Mode	Yes
Pan/Tilt Operation Noise	NC30 or less* *Sony measurement conditions

Preset Position	100
PTZ Trace Memory	16
PTZ Motion Sync	Yes

Camera Features

Day/Night	Yes
Visibility Enhancer	Yes
Image Flip	On/Off
Picture Profile Preset	Yes
ND Filter	Off, 1/4, 1/16, 1/64 switchable in menu
Color Gain	Yes (15 step)
Color Hue	Yes (15 step)
Color Matrix	Off/Standard/High Saturation/FL light/MOVIE/STILL/CINEMA/PRO/ITU709/BW
Gamma	Standard/Straight/MOVIE/STILL/CINE1/CINE2/CINE3/CINE4/ITU709//Patter
Gamma Level	Yes (15 step)
Black Level	Yes (97 step)
Black Gamma	Yes (15 step)
Knee Point	Yes (13 step)
Knee Slope	Yes (15 step)
Flicker Cancel	On/Off

Interface

4K Video Output	No
HD Video Output	3G-SDI x2 and HDMI
HDMI Color Space	YCbCr, 4:2:2 RGB, 4:4:4
Camera Control Interface	VISCA RS-422 RJ45(In/Out)

	VISCA over IP RJ45
External Sync. Input	BNC, 75Ω, HD 3-level sync, SD Black Burst
Power Connector Type	IEC60130-10 (JEITA standard RC-5320A) TYPE4

General

Power Requirements	DC 10.8V to 13.2V, PoE+ (IEEE802.3at compliant)
Power Consumption	DC12 V:19.0W (Max) PoE+:23.0 W (Max)
Operating Temperature	0 °C to 40 °C 32 °F to 104 °F
Storage Temperature	-20 °C to +60 °C -4 °F to +140 °F
Dimensions (W x H x D)*1	Approx. 198 x 260 x 238mm (without projecting object) Approx. 7 7/8 x 10 1/4 x 9 3/8 inch (without projecting object)
Mass	Approx. 4.3kg Approx. 9 lb 7.7oz
Optional Card Slots	Not needed
Body Color	Black and White
Size of Screw Hole for Tripod	1/4-20UNC x2
Mountable Angle	Less than ±15 degrees
Ceiling Mount	Yes
Supplied Accessories	IR Remote Commander Unit (1) Ceiling bracket (2) Wire rope (1) Screws(M3 x 8) (7) Screws(M4 x 8) (1) HDMI cable fixing plate (1)

Related products

REA-C1000 Edge Analytics Appliance

Edge Analytics Appliance

AWS-750

Anycast Touch portable live content producer

RCP-1500

Joystick type of Remote Control Panel for HDC/HSC/HXC series cameras. 4 units in 19-inch EIA rack.

HXC-FB80

Three 2/3-inch Exmor™ CMOS sensor HD color studio camera

RCP-3500

Remote-control panel for HDC/HSC/HXC series cameras

RM-IP500

PTZ Camera Remote Controller

RM-IP10

IP remote control panel for BRC cameras

RCP-1530

Joystick type of Remote control panel for HDC/HSC/HXC series cameras. 5 units in 19-inch EIA rack.

MCX-500

Multi-Camera Live Producer

RCP-3100

Joystick-type remote control panel for HDC/HSC/HXC series cameras.
5 units in 19-inch EIA rack.

HXC-P70

Affordable, three 2/3-inch Exmor CMOS sensor, full HD/SD compact system camera with direct optical fiber cable connection

Gallery