# BRC-H800

Premium Full HD PTZ Camera with 12x optical zoom and uncompromising broadcast picture quality



### Overview

Remotely capture broadcast quality Full HD images with smooth, silent PTZ and excellent low-light sensitivity.

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 worship, 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 12x optical zoom

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accommodates wide-angle scenes and tightly framed close-ups, with Clear Image Zoom 24x(HD) extending this range even further without visible loss of resolution. In Tele Convert Mode, 24x zoom can be further doubled to 48x 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 (colour availability may vary by country).

Features Enhanced Pan/Tilt/Zoom (PTZ) operation

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 memorised 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.

#### Broadcast quality Full HD 60p images

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

#### **Cinematic 24p pictures**

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

High quality 12x optical zoom and 24x(HD) with Clear Image Zoom 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.

#### Excellent low light sensitivity

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

#### Flexible installation

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

#### **Remote operation**

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.

#### **RCP/MSU Connectivity**

In an 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 Remote Camera System Guide.

#### Genlock

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

#### Versatile video outputs

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

#### Front and rear tally lamps

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.

#### Always up to date

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

#### Simplified construction of VR/AR systems\*

Real-time camera tracking data (pan/tilt/zoom/focus/iris) can be output from the camera over IP network in free-d\* protocol. It can construct VR/AR system without additional tracking system, easy and cost effective solution.

#### \* VR: Virtual Reality, AR: Augmented Reality



\* free-d is an industry-standard protocol for transmitting camera tracking data.

Specifications	Camera	
	lmage Sensor	1.0-type back-illuminated Exmor R CMOS sensor
	lmage Sensor (Number of Effective Pixels)	Approx. 14.2 Megapixels
	lmage 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	Auto, Manual, Priority mode (shutter

Control	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: 0.3° to 60°/s *1 0.05° to 60°/s *2

0.02° to 60°/s \*3

Pan/Tilt Speed	Tilt: 0.3° to 60°/s *1 0.05° to 60°/s *2 0.02° to 60°/s *3
	<ul> <li>*1 When P/T SPEED TYPE setting is NORMAL</li> <li>*2 When P/T SPEED TYPE setting is Extd. RANGE (Requires firmware V2.10)</li> <li>*3 When P/T SPEED TYPE setting is Extd. STEP (Requires firmware V2.10)</li> </ul>
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 Tracking Data Output	Yes (Requires firmware V2.10)

## Camera Features

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Day/Night	Yes
Visibility Enhancer	Yes
lmage 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/CI
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

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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	DC 10.8V to 13.2V,
Requirements	PoE+ (IEEE802.3at compliant)
Power	DC12 V:19.0W (Max)
Consumption	PoE+:23.0 W (Max)
Operating	0 °C to 40 °C
Temperature	32 °F to 104 °F
Storage	-20 °C to +60 °C
Temperature	-4 °F to +140 °F
Dimensions (W x H	Approx. 198 x 260 x 238mm (without projecting object) Approx. 7 7/8 x 10 1/4 x 9 3/8

x D)*1	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 $\pm 15$ 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



MCX-500 Multi-Camera Live Producer



**RM-IP500** PTZ Camera Remote Controller



**RM-IP10** IP remote control





**RCP-1500** 

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



#### **RCP-1530**

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

**HXC-FB80** 

Three 2/3-inch

Exmor™ CMOS

studio camera

sensor HD colour



### AWS-750

Anycast Touch portable live content producer

**HXC-P70** 

Affordable, three

CMOS sensor, full

system camera with direct optical fibre cable connection

2/3-inch Exmor

HD/SD compact



### RCP-3100

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



### **RCP-3500**

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



### REA-C1000 Edge Analytics Appliance

Edge Analytics Appliance



RCP-3501

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





### MSU-3000

Master setup unit, multi camera remote control panel for system cameras (horizontal type) MSU-3500 Master setup unit, multi camera remote control panel for system

cameras (vertical

type)

## Gallery

