

BRC-H800

HD Pan Tilt Zoom camera with 1-inch type Exmor R CMOS sensor



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 or sports stadiums. It's also particularly suited to efficient multi-camera set-ups, under the control of a single operator.

The 1-inch 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 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. 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.

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.

- **Broadcast quality Full HD 60p images**

The camera's large, back-illuminated 1-inch 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.

- **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-IP10 Remote Control Unit that can control multiple cameras.

- **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

*To be supported in 2017

Technical 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. 20.4 Megapixels
● Signal System	1080/59.94p, 1080/59.94i, 720/59.94p, 1080/50p, 1080/50i, 720/50p
● 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)
● 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
● 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
● Preset Position	16

Camera Features	
● Day/Night	Yes
● Visibility Enhancer	Yes
● Image Flip	On/Off
● Color Gain	Yes (15 step)
● Color Hue	Yes (15 step)
● Color Matrix	Off/Standard/High Saturation/FL light
● Gamma	Standard/Straight/Pattern
● 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
● 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)