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# 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.

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## 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

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## 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. 20.4Megapixels |
| ● Signal System | 1080/59.94p,1080/59.94i,720/59,94p, 1080/50p,1080/50i, 720/50p |
| ● Minimum Illumination (50IRE) | 1.7 lux<br>(50IRE, F2.8, 1/30s, Max.Gain) |
| ● Horizontal Resolution | 850 TV line<br>(in 3G-SDI output) (center) |
| ● Gain | Auto/Manual (-3dB to +33dB) |
| ● Shutter Speed | 1/10000s to 1/8 (59.94/29.97)<br>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<br>F2.8(Wide) ,F4.5(Tele) |
| ● Minimum Object Distance | 1000mm(Tele)<br>80mm( Wide) |
| ● Pan/Tilt Angle | Pan: ±170°<br>Tilt: +90°/-30° |
| ● Pan/Tilt Speed | Pan: 0.3° to 60°/s<br>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

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|---|---|
| ● 4K Video Output | No |
| ● HD Video Output | 3G-SDI x2 and HDMI |
| ● HDMI Color Space | YCbCr, 4:2:2<br>RGB, 4:4:4 |
| ● Camera Control Interface | VISCA RS-422<br>RJ45(In/Out)<br>VISCA over IP RJ45 |
| ● External Sync. Input | BNC, 75Ω, HD 3-level sync, SD Black Burst |
| ● Power Connector Type | IEC60130-10<br>(JEITA standard RC-5320A)<br>TYPE4 |

### General

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|---|---|
| ● Power Requirements | DC 10.8V to 13.2V,<br>PoE+ (IEEE802.3at compliant) |
| ● Power Consumption | DC12 V:19.0W (Max)<br>PoE+:23.0 W (Max) |
| ● Operating Temperature | 0 °C to 40 °C<br>32 °F to 104 °F |
| ● Storage Temperature | -20 °C to +60 °C<br>-4 °F to +140 °F |
| ● Dimensions (W x H x D)*1 | Approx. 198 x 260 x 238mm<br>(without projecting object)<br>Approx. 7 7/8 x 10 1/4 x 9 3/8 inch<br>(without projecting object) |
| ● Mass | Approx. 4.3kg<br>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)<br>Ceiling bracket (2)<br>Wire rope (1)<br>Screws(M3 x 8) (7)<br>Screws(M4 x 8) (1)<br>HDMI cable fixing plate (1) |

## Accessories

**AC-UES1230**

Universal AC Adaptor

**AC-UES1230MT**

Universal AC Adaptor

### Pan Tilt Zoom Cameras

**RM-IP500**

PTZ Camera Remote Controller

**BRC-H800**