

## BRC-H700

Three 1/3-inch IT CCD sensors all-in-one HD robotic camera



### Overview

#### **High-definition, all-in-one, robotic colour video camera for remote shooting applications**

The BRC-H700 is an all-in-one compact robotic colour video camera system, which achieves high accuracy and wide-range Pan/Tilt/Zoom performance without complicated cable connections and installation.

#### **Superb picture quality**

Three 1.07 Megapixel HD CCDs The BRC-H700 incorporates three 1/3-inch type HD CCD sensors with a total of 1,070,000 effective pixels each, resulting in outstanding picture quality with high resolution. It also delivers accurate colour reproduction, and is ideal in low-light shooting environments.

#### **Flexible Installation - ceiling mount or flat surface**

Because the BRC-H700 has an Image Flip function, the unit can either be mounted on a ceiling using the supplied ceiling mount kit or placed on a flat surface to meet your installation and space requirements.

#### **Easy-to-use and ergonomically designed remote control unit**

All camera settings, including the Pan/Tilt/Zoom functions and sixteen-preset patterns, can be controlled from the optional RM-BR300 Remote Control Unit. The ergonomic joystick design and feature-rich control panel provide superb operability in various remote-shooting applications.

#### **High-performance Pan/Tilt/Zoom mechanism**

The BRC-H700 covers a wide shooting range with its highly accurate Pan/Tilt mechanism. It has a very wide pan range of 340 degrees and a tilt range of 120 degrees. Both pan and tilt speeds are variable within the range of 0.25 to 60 degrees per second. This enables the BRC-H700 to capture not only fast-moving objects, but also slow-moving objects without rocking vibration. What's more, the BRC-H700 incorporates a 12x optical auto-focus zoom lens, allowing for a zoom capability of up to 48x when used in combination with its 4x digital zoom.

### Features

#### **RS-232C/RS-422 remote control (VISCA protocol)**

The BRC-H700 can be controlled by external devices such as the optional RM-BR300 Remote Control Unit thanks to Sony's well-known VISCA protocol. All local controls such as Pan/Tilt/Zoom, camera settings, and sixteen presets can be easily accessed, and up to seven cameras can be daisy-chained and controlled by a single RM-BR300 Remote Control Unit.

#### **Versatile video outputs**

The BRC-H700 comes standard with a D-sub 15-pin RGB/YPbPr interface. The unit can also accept a range of versatile optional interface cards that allow for flexible analogue and digital system configurations. Choose from the following interface cards to configure a solution that meets your individual requirements:

HFBK-HD1\*1 : HD-SDI, HD Analogue RGB/Component

HFBK-SD1\*1 : Down Converted Analogue RGB, Analogue Component, Analogue Composite, SD-SDI

HFBK-XG1\*1 : WXGA, XGA (Letter Box, Crop), VGA (Letter Box, Crop)

HFBK-TS1\*1 : i.Link for use with HDV systems Thanks to these convenient option cards, the BRC-H700 truly functions as an all-in-one, compact robotic camera. \*1: Can be installed in both the BRC-H700 and BRU-H700.

### 16 camera presets

Various camera settings such as Pan/Tilt/Zoom and focus can be configured for up to sixteen presets per camera.

### Multi-function IR remote commander unit

Basic camera settings, such as the Pan/Tilt/Zoom functions and six-preset patterns, can be controlled from the supplied IR Remote Commander unit.

### Optical Multiplex Unit (BRU-H700)

Uncompressed digital data including external sync, camera control and audio signals can be transmitted via the optional BRU-H700 HD Optical Multiplex Unit with the BRBK-H700 HD Optical Multiplex Card installed. With only a single cable connection between the camera and the HD Optical Multiplex Unit, the system is extremely easy to install. The maximum cable length between these units is 1,000 meters - allowing multiple cameras to be located virtually anywhere you want. What's more, the BRU-H700 HD Optical Multiplex Unit is equipped with two built-in card slots, each identical to the one found in the BRC-H700 camera, allowing for flexible analogue and digital system configurations.

## Specifications

Camera	
Image Sensor	1/3-type IT CCD x3
Image Sensor (Number of Effective Pixels)	Approx. 1.07 Megapixels
Image Sensor (Total Number of Pixels)	Approx. 1.12 Megapixels
Signal System	60 Hz: 1080/59.94i
Sensitivity	F4.8 (Not to be published)
Minimum Illumination (50IRE)	6 lx (50IRE, F1.6, +18 dB)
Horizontal Resolution	640 TV line (Analog) (Not to be published)
S/N Ratio	50 dB
Gain	Auto/Manual (0 dB to +18 dB and Hyper Gain)
Shutter Speed	1/10,000 s to 1/60 s or 1/10,000 s to 1/50 s
Exposure Control	Auto, Manual, Priority mode (shutter priority, Gain priority & iris priority), EV compensation
Color AE Function	No
White Balance	Auto/Indoor/Outdoor/One-push/Manual

## Camera

Optical Zoom	12x
Digital Zoom	4x
Focusing System	Auto/Manual
Horizontal Viewing Angle	60.3°(Wide-end)
Focal Length	F1.6 (Wide), F2.8 (Tele) f = 4.5 mm to 54 mm
Minimum Object Distance	800mm (Tele) 500 mm (Wide)
Pan/Tilt Angle	Tilt: +90°/-30° Pan: ±170°,
Pan/Tilt Speed	Tilt: 0.25° to 60°/s Pan: 0.25° to 60°/s
Preset Position	16

## Camera Features

Auto ICR	No
Wide-D	No
Image Stabilization	On/Off (Optical)
Image Flip	On/Off
ND Filter	Off/ND1/ND2
Color Gain	-7, -6, -5, -4, -3, -2, -1, 0, +1, +2, +3, +4, +5, +6, +7
Color Hue	-7, -6, -5, -4, -3, -2, -1, 0, +1, +2, +3, +4, +5, +6, +7
Color Matrix	No
Color Detail	No
Skintone Detail	Off/Type1/Tyep2/Type3
Gamma	Normal/Cinema
Gamma Level	NA
Black	NA
Black Gamma	NA
Knee Point	No
Knee Slope	NA
Knee Sat Level	NA
Auto Focus Assist Function	No

## Camera Features

Flicker Cancel	On/Off
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B&W	On/Off
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Color Bar	On/Off
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## Interface

HD Video Output	Component (Y/Pb/Pr) or RGB, HD, VD or SYNC
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SD Video Output	No
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Camera Control Interface	RS-232C/RS-422 (VISCA)
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External Sync. Input	Yes
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## General

Power Requirements	DC 10.8 V to 13.2 V
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Power Consumption	Max 24 W (without optional cards)
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Operating Temperature	32 °F to 104 °F 0 °C to 40 °C
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Storage Temperature	-4 °F to +140 °F -20 °C to +60 °C
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Dimensions (W x H x D) *[1]	8 1/4 x 12 1/4 x 8 1/4 inches 207 x 310.8 x 207 mm
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Mass	9 lb 15 oz 4.5 kg
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Optional Card Slot?	Yes
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Body Color	Gray
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Size of Screw Hole for Tripod	1/4-20UNC
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Mountable Angle	±15°
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Ceiling Mount	Yes
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Supplied Accessories	Wire rope (1)
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Supplied Accessories	Screws(M4 x 8) (1) Screws(M3 x 8) (7) RS-422 connector plug (1) Operating instructions (1) IR Remote Commander Unit (1) Ceiling bracket (2) AC power cord (1) AC power adaptor (1)
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Note

\*[1] The values for dimensions are approximate.

Related products



**RM-IP500**

PTZ Camera Remote  
Controller

Gallery



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