

BRC-H700P

HD 3CCD Color Video Camera



The BRC-H700 is a high-definition, all-in-one, robotic color video camera for remote shooting applications.

- Superb picture quality - three 1.07 megapixel HD CCDs
- High-performance Pan/Tilt/Zoom mechanism
- RS-232C/RS-422 remote control (VISCA protocol)
- Versatile video outputs
- Flexible installation - ceiling mount or flat surface
- Sixteen presets
- Multi-function IR remote commander unit
- Easy-to-use and ergonomically designed remote control unit (RM-BR300)
- Optical multiplex unit (BRU-H700)

This product comes with the full PrimeSupport package. That's fast, hassle-free repairs, a helpline offering expert technical advice, and a free loan unit while yours is repaired. Plus the peace of mind that Sony is looking after your equipment – and your business.

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 analog 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 Analog RGB/Component
 - HFBK-SD1*1 : Down Converted Analog RGB, Analog Component, Analog 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

Sixteen 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.

Benefits

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.

Technical Specifications

Image device	Three 1/3 type IT CCDs
Total picture elements	Approx. 1.12 Megapixels
Effective picture elements	Approx. 1.07 Megapixels
Signal systems	1080/59.94i, 1080/50i (switchable)
Lens	12x optical zoom, 48x with digital zoom Carl Zeiss Vario-Sonnar T*(R)
Focal length	f=4.5 to 54.0 mm (F1.6 to F2.8)
Minimum object distance	800 mm (Tele end)
Horizontal viewing angle without Image Stabilization	5.5 degrees (Tele) to 60.3 degrees (Wide)
Vertical viewing angle without Image Stabilization	3.1 degrees (Tele) to 36.2 degrees (Wide)
Focus system	Auto/Manual
Pan/Tilt angle	-170 to +170 degrees (Pan), -30 to +90 degrees (Tilt)
Pan/Tilt speed	0.25 to 60 degrees/s (Pan/Tilt)
Minimum illumination	6 lx (50 IRE, F1.6)
S/N ratio	50 dB
Shutter speed	1/10,000 to 1/59.94 (1/50) s
Gain	Auto/Manual (0 to 18 dB and Hyper Gain)
White balance	Auto, Indoor, Outdoor, One-push WB, Manual
Optical Image Stabilizer	On/Off
Image flip	On/Off

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.

ND filter	Off/ND1/ND2
Preset positioning	16 positions
Video output (Built-in)	Analog RGB, Analog Y/Pb/Pr
Video output (With optional card(s))	HFBK-HD1 : HD-SDI, HFBK-SD1 : Down converted SD (RGB, Y/Cb/Cr, Y/C, Composite, SDI x2) HFBK-XG1 : WXGA, XGA, VGA, HFBK-TS1 : HDV
Camera control interface	RS-232C/RS-422 (VISCA protocol)
Backlight compensation	On/Off
Operating temperature	0 to 40 degrees (32 to 104 °F)
Storage temperature	-20 to 60 degrees (-4 to 140 °F)
Power requirements	DC 12 V
Power consumption	Max. 24 W (without optional card)
Dimensions (Diameter x H)	207 x 315.8 mm (8 1/4 x 12 1/2 inches)
Mass	4.5 kg (9 lb 15 oz)

Supplied Accessories

IR Remote Commander Unit (1) Wire rope (1) Mounting screws (1) Operating instructions (1) AC adaptor (1) AC power cable (1) Ceiling bracket (2) RS-422 terminal block connector (1)

Accessories

Option Boards and Modules



BRBK-H700
HD Optical Multiplex Card



HFBK-TS1
iLINK (HDV) Output Board



HFBK-HD1
Hd-sdi Output Board



HFBK-XG1
XGA Output Board



HFBK-SD1
SDI Output Board

Multi-purpose Cameras



BRU-H700P
HD Optical Multiplex Unit

Pan/Tilt/Zoom Cameras



RM-BR300
Remote Control Unit for BRC-300