

SONY®

NTSC/PAL

3CCD Color Video Camera

BRC-300 BRC-300P



MAIN FEATURES

Superb Picture Quality

The BRC-300 incorporates three 1/4.7-type Advanced HAD™ CCD sensors with a total of 1,070,000 pixels. This camera delivers outstanding picture quality with high resolution and accurate color reproduction. Featuring Sony's Advanced HAD technology that produces images with low noise, the BRC-300 is ideal in low illuminated shooting environments or when shooting dark subjects.

High-performance Sony Pan/Tilt/Zoom Mechanism

The BRC-300 covers a wide shooting range with its highly accurate Pan/Tilt mechanism. It has one of the widest ranges in its class: a pan range of 340 degrees, and a tilt range of 120 degrees. The 340-degree pan range can be covered in 8 seconds, while the 120-degree tilt range can be covered in 4.5 seconds. With its newly developed Pan/Tilt mechanism, the BRC-300 can capture not only fast moving objects, but also slow moving objects without vibration.

What's more, the BRC-300 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.



Sony's new BRC-300 is a revolutionary all-in-one compact robotic color video camera system, specially designed for remote video shooting applications. The BRC-300 incorporates three 1/4.7-type Advanced HAD™ CCDs, that provide high-quality and high-resolution images in both 4:3 and 16:9 modes.

With its high-accuracy and wide-range Pan/Tilt/Zoom capability, the BRC-300 precisely captures the right points of the viewable area surrounding the camera to meet your needs. You can also easily operate the camera with Sony's optional RM-BR300 Remote Control Unit, which is equipped with an ergonomic joystick and feature-rich control panel. And when used with optional BRBK-303 Optical Multiplex Card and BRU-300 Optical Multiplex Unit, the BRC-300 is capable of being controlled from a long distance with a single fiber optic cable connection.

The BRC-300 also comes equipped with a card slot that accepts optional interface cards, enabling the camera to be integrated into every kind of system from S-Video to RGB, i.LINK® DV interface, SDI or even fiber. In addition, two remote control interfaces (VISCA™ protocol) are available to provide additional expandability and flexibility for your remote shooting applications.

With a number of convenient features such as its E:Flip function for desktop or ceiling mount flexibility, and its compact body, the BRC-300 is ideal for use in a wide range of remote shooting applications such as houses of worship, distance learning, corporate training, high-end videoconference, event shooting, and cable TV broadcasting.



Note: in this brochure, "BRC-300" refers to both the BRC-300 (NTSC model) and the BRC-300P (PAL model), and "BRU-300" refers to both the BRU-300 (NTSC model) and the BRU-300P (PAL model).

Precision 16:9 Technology

The BRC-300 captures images in both 4:3 and 16:9 aspect ratios, and with its 3 CCD technology, is able to achieve a wide angle of view in the 16:9 mode.

Due to the greater number of pixels used in the 16:9 aspect ratio, the BRC-300 generates extremely high-resolution images as compared to conventional cameras.

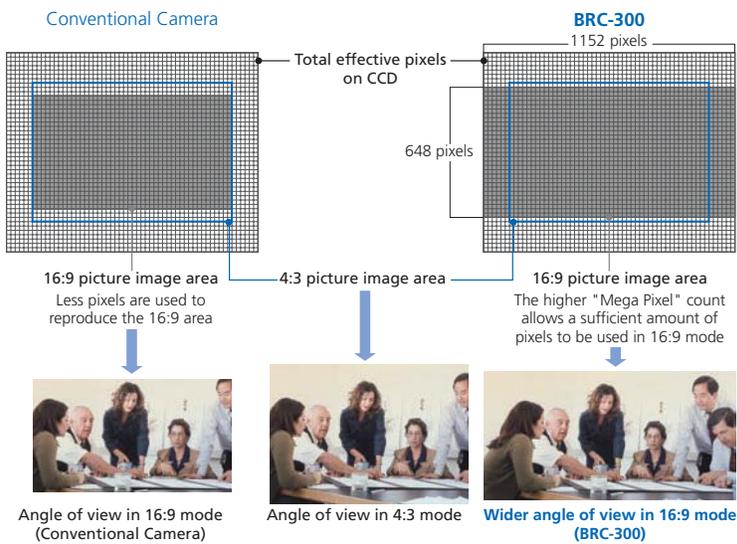


Fig. 1 16:9 aspect ratio

RS-232C/RS-422 Remote Control (VISCA protocol)

The BRC-300 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 six presets can be easily accessed, and up to seven cameras can be daisy-chained and controlled by the RM-BR300 Remote Control Unit.

Versatile Video Outputs

The BRC-300 can be used with a range of versatile optional interface cards allowing for flexible analog and digital system configurations. Choose from the following interface cards to configure your individual requirements:

- Analog RGB/Component: BRBK-301*
- SDI: BRBK-302*
- DV i.LINK interface

Thanks to these convenient options, the BRC-300 truly functions as an all-in-one, compact robotic camera.

* Can be installed into the both BRC-300 and BRU-300.



OTHER CONVENIENT FEATURES

Ceiling or Desktop Mount Installation

Thanks to Sony's E:Flip function, the BRC-300 can be ceiling mounted using the supplied ceiling mount kit or can also be used on the desktop.

Six Presets

Various camera settings such as Pan/Tilt/Zoom and focus can be programmed in up to six presets per camera.

Multi-Function IR Remote Commander® Unit

Basic camera settings such as Pan/Tilt/Zoom functions and six-preset patterns can be controlled from an supplied IR Remote commander.



Ergonomically Designed Remote Control Unit (RM-BR300)

All camera settings including the Pan/Tilt/Zoom function and six 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.

Optical Multiplex Unit (BRU-300)

The optional BRU-300 Multiplex Unit receives and converts uncompressed digital raw data from the camera using the optional multiplex interface card into any video output. The unit has two built-in interface card slots and can be connected to the camera with a single fiber cable that extends up to 1,500 feet for easy installation. The BRU-300 also converts control data from the RM-BR300 to optical, and transmits this data to the camera.



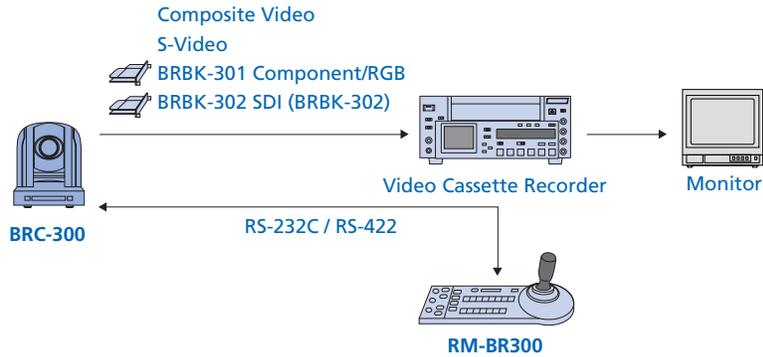
BRC-300 and supplied IR Remote commander



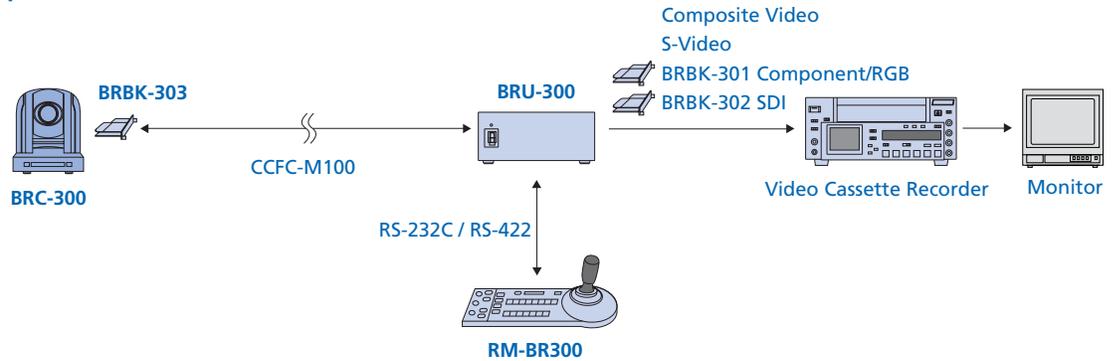
RM-BR300 control panel

SYSTEM CONFIGURATION

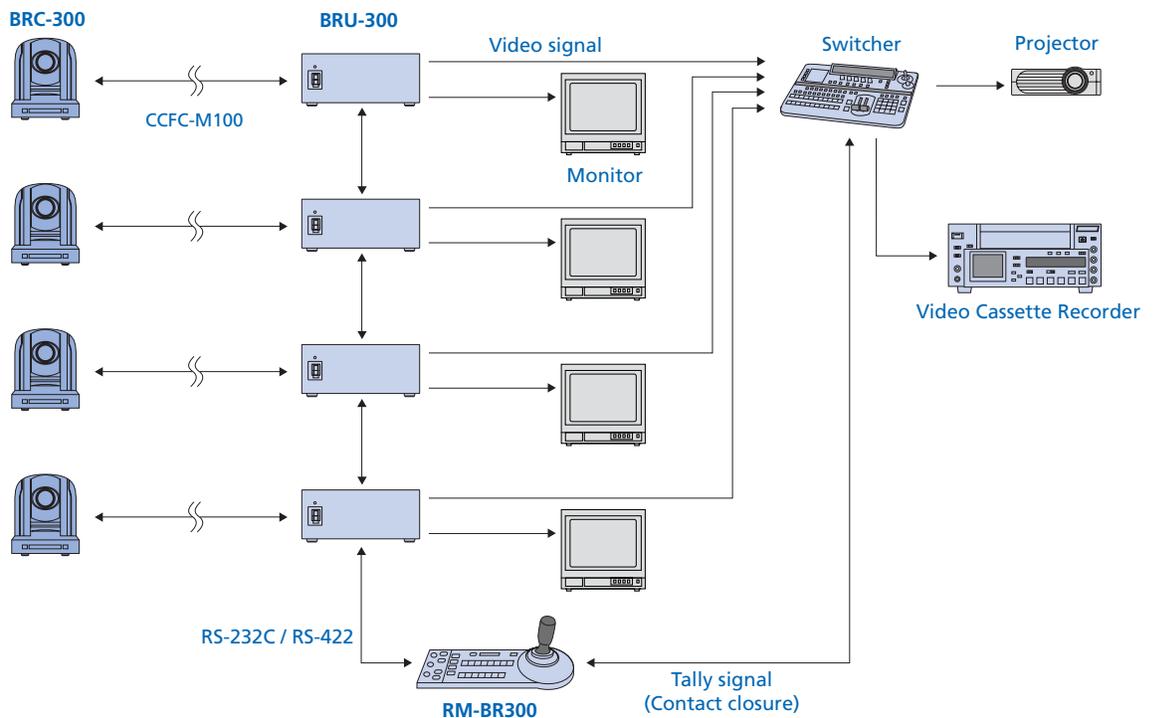
Short-distance operation



Long-distance operation



Multiple camera operation from a remote location



OPTIONAL ACCESSORIES



BRBK-301
Analog/RGB Component Card



BRBK-302
SDI Card



BRBK-303
Optical Multiplex Card



RM-BR300
Remote Control Unit



BRU-300
Optical Multiplex Unit



CCFC-M100
Optical Fiber Cable



CCMC-9DS
RGB/Component, Y/C Cable
(9-pin D-sub)



CCXC-9DBS
RGB/Component, VBS Cable
(9-pin D-sub)



VCL-HG0737X
Wide Conversion Lens



BRC-300 rear panel with the optional BRBK-302



RM-BR300 rear panel



BRU-300 rear panel with the optional BRBK-301/BRBK-302

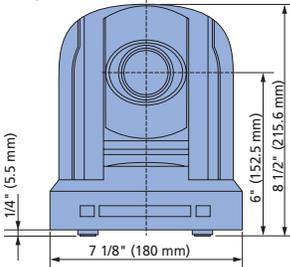
SPECIFICATIONS

BRC-300 3CCD Color Video Camera

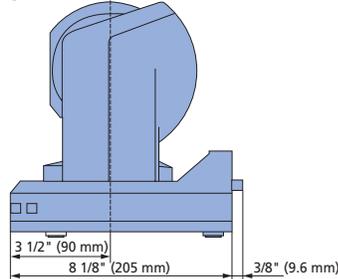
Image device	Three 1/4.7 type IT Advanced HAD CCD (x3), 1070000 pixels (gross)
CCD effective pixels	4:3 mode 960 (H) x 720 (V) 16:9 mode 1,152 (H) x 648 (V)
Effective pixels	NTSC 768 (H) x 494 (V) PAL 752 (H) x 582 (V)
Signal systems	NTSC / PAL
Horizontal resolution	4:3 mode 600 TV lines
Sync systems	Internal/External
Lens	12x optical zoom, 48x with digital zoom
Focal length	f = 3.6 to 43.2 mm (F1.6 to F2.8)
Horizontal viewing angle	4:3 mode 3.3 (Tele end) to 37.8 degrees (Wide end) 16:9 mode 4.0 (Tele end) to 45.4 degrees (Wide end)
Minimum object distance	300 mm (Wide end), 800 mm (Tele end)
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	7 lx at F1.6
S/N ratio	50 dB
Shutter speed	NTSC 1/10000 to 1/4 s PAL 1/10000 to 1/3 s
Gain	Auto/Manual (-3 to 18 dB, 3 dB steps) switchable
White balance	Auto, Indoor, Outdoor, One-push WB, Manual
Preset positioning	6 positions
Analog output	VBS (BNC), Y/C (4pin Mini DIN)
Camera control interface	RS-232C (VISCA protocol) / RS-422 (VISCA protocol)
Back-light compensation	On / Off
Operating temperature	0 to 40 degrees (32 to 104 °F)
Storage temperature	-20 to 60 degrees (-4 to 140 °F)
Power requirement	DC 12 V
Power consumption	21.6 W (without optional card)
Dimensions (W x D x H)	7 1/8 x 8 1/8 x 8 3/8 inches (180 x 205 x 211 mm)
Weight	5 lb 15 oz (2.7 kg)
Supplied accessories	AC adaptor(1), IR remote commander(1), Terminal connector(1), AC adaptor cable(1), Ceiling bracket(2), Operating instructions(1)

BRC-300 Dimensions

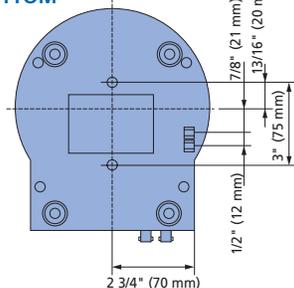
FRONT



SIDE



BOTTOM



BRU-300 Optical Multiplex Unit

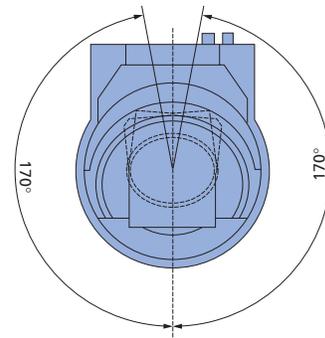
Optical fiber	Multi mode, LC-type connector
Video output	VBS (BNC), Y/C (4-pin Mini DIN)
Camera control interface	RS-232C (VISCA protocol) / RS-422 (VISCA protocol)
Sync systems	Internal/External
Card slots	2 slots: Analog RGB-Component card / SDI card
Operating temperature	0 to 40 degrees (32 to 104 °F)
Storage temperature	-20 to 60 degrees (-4 to 140 °F)
Power requirements	NTSC AC100 to 120 V, 50/60 Hz PAL AC220 to 240 V, 50/60 Hz
Power consumption	9 W (without optional cards)
Dimensions (WxHxD)	8 3/8 x 3 1/2 x 9 1/4 inches (212 x 88 x 233 mm)
Weight	5 lb 15 oz (2.7 kg)
Supplied accessories	AC power cable (1), Terminal connector (1), RS-232C cable (3 m, 8-pin Mini DIN) (1), Operating instructions (1)

RM-BR300 Remote Control Unit

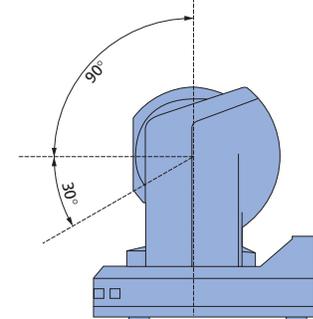
Camera control interface	RS-232C (VISCA protocol) / RS-422 (VISCA protocol)
External control	Contact closure
Power requirement	DC 10.8 to 13.2 V
Power consumption	2.4 W
Dimensions (WxHxD)	15 1/2 x 7 3/8 x 5 3/4 inches (391.3 x 185 x 145.9 mm)
Weight	2 lb 1 oz (950 g)
Supplied accessories	AC adaptor (1), AC power cable (1), RS-232C cable (3 m, 8-pin Mini Din) (1), Terminal connector(2), Operating instructions (1)

BRC-300 Pan/Tilt Range

PAN RANGE



TILT RANGE



SONY

SONY[®]

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V-2220
MK10091V1

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information on compatibility, operating conditions, and proper connection.

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