

N T S C / P A L

3CCD Color Video Camera BRC-300 BRC-300P



MAIN FEATURES



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, 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.

Superb Picture Quality with a Mega Pixels 3-CCD

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 image 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 rocking 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.

With a number of convenient features such as its Image Flip

to both the BRU-300 (NTSC model) and the BRU-300P (PAL model).

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.





Precision 16:9 technology

The BRC-300 captures images in both 4:3 and 16:9 aspect ratios, and with its 3CCD 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*1

• SDI: BRBK-302*1

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

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



OTHERS CONVENIENT FEATURES



Ceiling or Desktop Mount Installation

Thanks to Sony's Image Flip functions, 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 preset 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.

Easy-to-use and Ergonomic 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)

With the optional BRBK-303 Optical Multiplex Card and the optional BRU-300 Optical Multiplex Unit, uncompressed digital data including external sync and camera control can be transmitted via the BRU-300 Optical Multiplex Unit. With only a single cable connection required between the camera and the optical multiplex unit, the system is extremely easy to install. The maximum cable length between these units is 500 meters allowing multiple cameras to be located virtually anywhere you want. What's more, the BRU-300 Optical Multiplex Unit is equipped with two built-in card slots identical to the ones found in the BRC-300 camera allowing for flexible analog and digital system configurations.



BRC-300 and supplied IR Remote commander



RM-BR300 control panel

SYSTEM CONFIGURATION





Multiple camera operation from a remote location



OPTIONAL ACCESSORIES



BRBK-301 Analog/RGB Component Card







BRBK-303 Optical Multiplex Card







BRU-300 Optical Multiplex Unit



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



CCFC-M100 Optical Fiber Cable



VCL-HG0737X Wide Conversion Lens



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



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 ty	pe 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/Exterr	nal	
Lens	12x optical zo	om, 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)	180 x 205 x 211 mm (7 1/8 x 8 1/8 x 8 3/8 inches)		
Mass	2.7 kg (5 lb 15 oz)		
Supplied accessories	AC adaptor(1), IR remote commander(1),		
	Terminal connector(1), AC adaptor cable(1),		
	Ceiling bracke	t(2), Operating instructions(1)	

BRU-300 Optical Multip	lex 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 protoclol)	
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)	212 x 88 x 233 mm (8 3/8 x 3 1/2 x 9 1/4 inches)	
Mass	2.7 kg (5 lb 15 oz)	
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)	391.3 x 185 x 145.9 mm (15 1/2 x 7 3/8 x 5 3/4 inches)		
Mass	950 g (2 lb 1 oz)		
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





BRC-300 Dimensions







(Unit: mm)

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