SONY



Color Video Cameras
BRC Series
BRC-H700

BRC-Z700 BRC-Z330 BRC-300 BRC-300P

The BRC Series consists of four Pan/Tilt/Zoom (P/T/Z) cameras—the BRC-H700, BRC-Z700, BRC-Z330, and BRC-300/300P. They offer wide and smooth pan/tilt/zoom capabilities together with exceptional picture quality from SD to full HD images. You can remotely control these cameras using the RM-BR300 Remote Control Unit or the BRS-200 Remote Camera Operating Switcher. The BRC Series is perfect for a variety of remote video shooting applications, and each camera integrates easily into a wide range of indoor and outdoor locations. These qualities enable more and more users to enjoy the benefits of BRC Series cameras, particularly in education, broadcast, bridal, and corporate applications.

PRODUCT LINEUP

BRC-H700

Equipped with three 1/3-type HD CCDs, the BRC-H700 offers excellent picture quality with high sensitivity and a high resolution of 1,070,000 effective pixels. This camera has the best sensitivity of the BRC Series; it therefore delivers superior performance in dimly lit environments, such as concert or wedding halls. Moreover, the camera offers the widest viewing angle of the BRC Series, delivering wider images of each scene and providing a complete picture of ongoing events.



Torr

BRC-Z700

The BRC-Z700 offers a resolution of 1,040,000 effective pixels by deploying three 1/4-type ClearVid™ CMOS image sensors in combination with Sony-developed DSP technology. This camera includes a 20x optical auto-focus zoom lens with an optical image stabilizer. The perfect choice for long-distance-shooting applications, such as sporting coverage, this camera provides dual SD/HD outputs, enabling users to smoothly shift towards adopting a total HD system.

BRC-Z330

Equipped with single 1/3-type 2-megapixel CMOS image sensor, the BRC-Z330 delivers stunning HD images and SD images. This camera enables 1080i and 720p to be integrated in various HD systems. It also outputs SD signals simultaneously for further system flexibility; this is particularly useful when instigating a system upgrade. Added to this, the camera's quiet movement, compact size, light weight, and stylish design broaden the options when developing ideal applications.





BRC-300/300P

The standard-definition BRC-300 comes equipped with three 1/4.7-type Advanced HADTM CCD sensors. This camera delivers dependable picture quality and is the best for cost-efficient SD applications. It can capture images in 4:3 and 16:9 aspect ratios, the latter providing a wider viewing angle.

FEATURES

Auto White Balance

The BRC-Z700 and BRC-Z330 have an enhanced type of auto mode (Auto 2), which adds to the conventional auto mode (Auto 1). In Auto 2, the camera recognizes a wider range of color temperature as white – this is useful for video shooting when there are frequent variations in the lighting source.

Color Adjustment

The BRC-Z700 and BRC-Z330 can enhance or reduce a specific color region without changing the white balance focusing point. Both of these cameras adjust the saturation of six colors independently, and the BRC-H700 is able to modulate six colors simultaneously.

Color Detail

The BRC-Z700 and BRC-Z330 can adjust the image enhancer of a specific color, which is an enhancement over the conventional skin tone detail function. This allows you to adjust not only skin tone color but also all other colors.

Color AE

The BRC-Z330 is equipped with a Color AE function. When the camera detects a particular color, it adjusts exposure specifically for the color. This feature is useful when shooting objects located in front of a single-colored background. Also, the camera can adjust the skin tone color to the best brightness.

APPLICATIONS

Corporate/Boardroom

The BRC Series cameras are excellent for various business communication applications, such as videoconferencing, corporate training, and transmission of managers' regular speeches. Since four cameras in the series each have a particular benefit, there is scope to select the right camera for every different application. To quickly re-use a camera after



someone else has been using it, simply touch a button on the supplied controller to recall pre-specified positions for capturing speech and switching scenes.

Auditorium/Concert Hall

With pan/tilt movement, the wide shooting range of a single camera can capture an entire live performance, including audience shots. This ability of the BRC Series means that fewer cameras and camera operators are required, resulting in huge cost savings. These cameras can easily get close shots of performers from locations that are typically difficult for a



photographer to reach.
Additionally, each camera's compact size and quiet movement avoid distracting audiences from the performance.

City Council

Remotely controlled by the RM-BR300 or BRS-200, BRC Series cameras quickly move to capture the required action at council meetings or in trials. Single-operator switching and



broadcasting are supported by the BRS-200 switcher, while operation is simplified and streamlined by multiple presets which pre-define P/T/Z positions and other parameters.

Sports Events

With high-speed and extremely smooth pan/tilt movement, BRC Series cameras can follow the swift, spontaneous flow of sports action. By pre-installing cameras in high positions, they can deliver extensive views of each sporting event, and capture shots at unique angles, typically very difficult to



achieve with conventional shooting. Also, optical fiber connection (max. 1,000m) achieves long-distance data transfer*1 and enables single-operator broadcasting.

*1 Long-distance control using an optical fiber connection is available for the BRC-H700, BRC-Z700, and BRC-300/300P.

Studio

The BRC Series is also ideal for use in the broadcast industry. The BRC-H700, BRC-Z700 and BRC-Z330*2 can output HD-SDI signals – a necessity for highly demanding broadcasters who seek uncompromising picture quality. With flexible installation, these cameras can be painlessly integrated into the currently operating studio with tripods or ceiling brackets. For the wide angles required in studio shooting, wide conversion lenses are available*3. And there are numerous other camera benefits,



including quiet and smooth P/T/Z movement, a tally indicator, cost-efficiency, and more.

- *2 HD-SDI outputs are available using optional video cards.
- *3 Wide conversion lenses are available for the BRC-Z700 and BRC-300.

Education

By deploying BRC Series cameras, tutors can offer students new educational opportunities anytime and anywhere. With the real-time distribution of lectures and educational content,



academic institutions can deliver e-learning classes, and professors can usefully share professional opinions and collaborate via networked communication.

House of Worship

By using a large screen in combination with highly sensitive BRC Series cameras, an organizer can deliver clear video images with accurate color reproduction. Attendees can be more involved in the service and follow ongoing events better



than ever before. With a variety of peripheral components, a range of user-friendly systems can be designed to suit the size and budget of every institution.

Bridal

Pre-installed BRC Series cameras are conducive to a perfectly peaceful and tranquil atmosphere, as their silent movement cannot disturb anyone. With high picture performance and



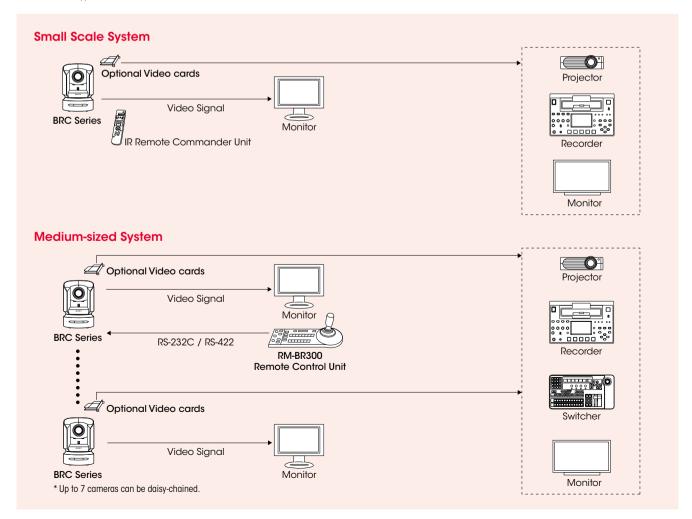
zooming capabilities, these cameras can capture natural facial expressions and graceful movements. Also, due to their compact and sleek design, these cameras blend easily into the surrounding environment.

SYSYTEM CONFIGURATIONS

You can configure a variety of systems to meet your application needs by choosing HD and/or SD components. Users can choose either HD or SD system components.

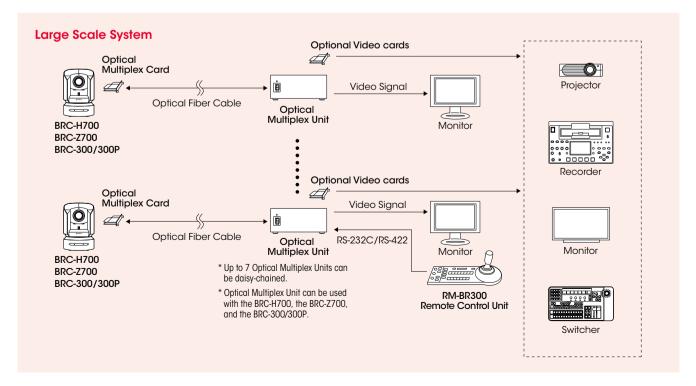
	BRC Simple System				
	BRC-H700	BRC-Z700	BRC-Z330	BRC-300/300P	
Wide Conversion Lens		VCL-HG0862*	_	VCL-0737W	
Optical Video Card (inserted to the BRC Series)	HFBK-HD1 HD-SDI, HD Component (Y/Pb/Pr), RGB		BRBK-HD2 HD-SDI	BRBK-301 Composite, Y/C, SD Component (Y/Cb/Cr), RGB	
	HFBK-SD1 SD-SDI, Composite, Y/C, SD Component (Y/Cb/Cr), RGB	BRBK-HSD1 HD-SDI, SD-SDI		BRBK-302	
	HFBK-TS1 i.LINK (HDV)			SD-SDI	
	HFBK-XG1 WXGA, XGA, VGA			BRBK-304 i.LINK (DV)	
Remote Control unit		RM-BR300			

^{*} The lens hood supplied with the VCL-HG0862K cannot be used.

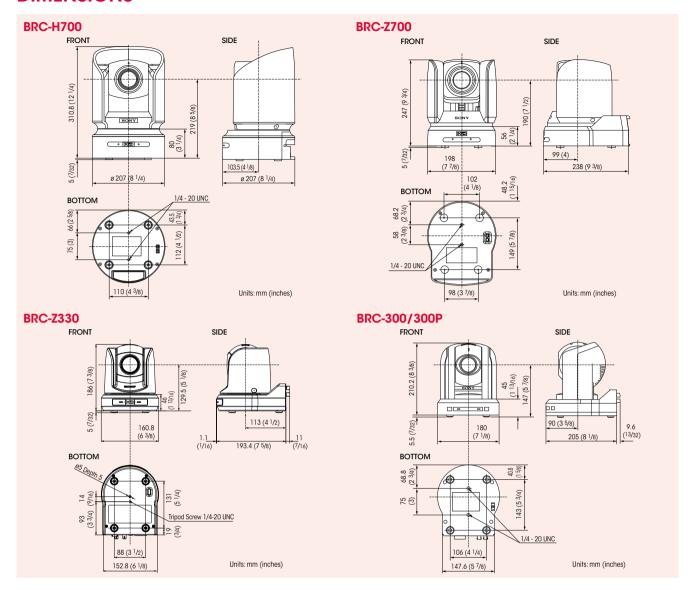


	BRC and BRU System					
	BRC-H700	BRC-2700	BRC-300/300P			
Wide Conversion Lens	_	VCL-HG0862*	VCL-0737W			
Optical Multiplex Card (inserted to the BRC Series)	BRBK-H700	BRBK-MF1	BRBK-303			
Optical Fiber Cable	CCFC-M100HG	CCFC-M100				
Optical Multiplex Unit	BRU-H700		BRU-300/300P			
Optical Video Card (inserted to the BRC Series)	HFBK-HD1 HD-SDI, HD Component (Y/Pb/Pr), RGB	BRBK-301 Composite, Y/C, SD Component (Y/Cb/Cr), RGB				
	HFBK-SD1 SD-SDI, Composite, Y/C, SD Component (Y/Cb/Cr), RGE	BRBK-302 SD-SDI BRBK-304 i.LINK (DV)				
	HFBK-TS1 i.LINK (HDV)					
	HFBK-XG1 WXGA, XGA, VGA					
Remote Control unit		RM-BR300				

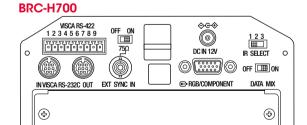
^{*} The lens hood supplied with the VCL-HG0862K cannot be used.

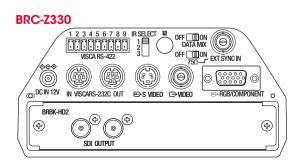


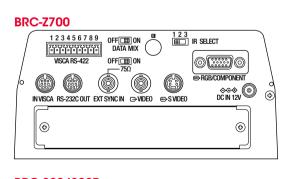
DIMENSIONS

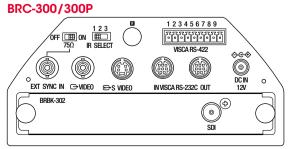


REAR PANELS









OPTIONAL ACCESSORIES



BRC-H700

BRBK-H700

HD Optical Multiplex Card



BRC-Z700

BRBK-MF1

HD Optical Multiplex Card



BRBK-304

DV Card



BRC-H700

BRU-H700

HFBK-HD1

BRC-Z700

BRBK-HSD1

HD/SD-SDI Output

HD Interface Board



BRU-H700

SD Interface Board



BRC-H700

BRBK-301

Analog RGB

Component Card

BRU-H700

HFBK-XG1 XGA Interface Board



BRC-H700

BRU-H700

HFBK-TS1

i.LINK (HDV) Interface **Board**



BRC-300 BRU-300

BRBK-302

SDI Card



BRC-300

BRU-300



BRC-Z330

BRBK-HD2

HD-SDI Output Card



BRC-Z700

SD Optical Multiplex

BRC-H700

Unit

BRC-300

BRBK-303

Card

BRU-H700

HD Optical Multiplex



BRC-300 BRU-300

BRC-300

BRU-300/BRU-300P

SD Optical Multiplex



BRC-H700

BRC-Z700

CCFC-M100HG

Optical Fiber Cable 2-core Multi-mode Optical Fiber Cable (100 m long), Extension Plug Included



BRC-300

CCFC-M100

Optical Fiber Cable 2-core Multi-mode Optical Fiber Cable (100 m long), Extension Plug Included



CCMC-9DS*

RGB/Component.Y/C Cable (9-pin D-sub)



CCXC-9DBS*

RGB/Component. VBS Cable (9-pin D-sub)



BRC-Z700

VCL-HG0862 VCL-HG0862K** Wide Conversion Lens



BRC-300

VCL-0737W

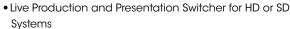
Wide Conversion Lens

PERIPHERAL EQUIPMENTS



BRS-200

Remote Camera Operating Switcher



- Multi Viewing Function
- Rich Selection of Inputs and Outputs
 - •Standard: SDI input x 4 / output x 4, DVI-I output x 1
- •With option: SDI input x 8 / output x 4, DVI-I input x 1 / output x 2
- BRC Series Camera Control Capability



RM-BR300

Remote Control Unit

- Easy Operation of Versatile Camera Adjustments
- The VISCA RS-232C/RS-422 Communication Interfaces Allow High-speed, Long-distance Communication
- A Tally Lamp Input/Contact Output Terminal Allows Connection of a Video Switcher
- Preset Feature to Save Camera Settings up to 16 positions*
- * For the BRC-300/300P, six positions can be saved.

^{*}These cables are for use with the BRBK-301 or HFBK-SD1. **The lens hood supplied with the VCL-HG0862K cannot be used.

SPECIFICATIONS

Camaara	BRC-H700	BRC-Z700	BRC-Z330	BRC-300	BRC-300P
Camera Signal systems	1080/59.94i or 1080/50i (switchable)	1080/59.94i, NTSC or 1080/50i, PAL (switchable)	60 Hz: 1080/59.94i, 720/59.94P, NTSC 50 Hz: 1080/50i, 720/50P, PAL	NTSC	PAL
Sync systems	Internal/External	PAL (SWIICHODIE)	30 HZ: 1080/301, 720/30P, PAL		
nage device	1/3-type IT CCD x 3	1/4-type CMOS x 3	1/3-type CMOS image sensor	1/4.7- type CCD x 3	
	Approx. 1.07 Megapixels	Approx. 1.04 Megapixels	Approx. 2.16 Megapixels	Approx. 0.69 Megapixels	
ens	12x optical zoom (48x with digital zoom),	20x optical zoom (80x with digital zoo			moor lr
0110	Carl Zeiss Vario-Sonnar T* lens	Carl Zeiss Vario-Sonnar T* lens	ny, Tox opiloui 200m (7 2x wiin digilai 200m)	TZX OPHOGI ZOOTI (40X WIIIT digito	11 200111)
ocal length	f=4.5 to 54 mm (F1.6 to F2.8)	f=3.9 to 78 mm (F1.6 to F2.8)	f=4.6 to 82.8 mm (F1.6 to F2.2)	f=3.6 to 43.2 mm (F1.6 to F2.8)	
ens filter diameter	72 mm	62 mm	_	37 mm	
Minimum object distance	500 mm (Wide), 800 mm (Tele)	10 mm (Wide, Limiter Off), 500 mm (Wide, Limiter On), 800 mm (Te	100 mm (Wide, Limiter Off), 500 mm (Wide, Limiter On), 1,500 mm (Tele)	300 mm (Wide), 800 mm (Tele)	
lorizontal viewing angle	5.5 to 60.3 degrees	1.8 to 55.2 degrees	3.3 to 55.1 degrees	4:3 mode: 3.3 to 37.8 degrees, 1	6:9 mode: 4.0 to 45.4 degrees
ocusing system	Auto/Manual				
an/Tilt angle	-170 to +170 degrees (Pan), -30 to +	-90 degrees (Tilt)	-175 to +175 degrees (Pan), -30 to +90 degrees (Tilt)	-170 to +170 degrees (Pan), -30	to +90 degrees (Tilt)
an/Tilt speed	0.25 to 60 degrees/s (Pan/Tilt)	0.22 to 60 degrees/s (Pan/Tilt)	0.25 to 60 degrees/s (Pan/Tilt)		
linimum illumination	6 lx (50 IRE, F1.6, +18 dB)	6 lx (50 IRE, F1.6, +24 dB)		7 lx (25 IRE, F1.6, +18 dB)	
ideo S/N ratio	50 dB				
hutter speed	1/10,000 to 1/60 s or 1/10,000 to 1/	/50 s		1/10,000 to 1/4 s	1/10,000 to 1/3 s
ain	Auto/Manual (0 to 18 dB and Hyper Gain)	Auto/Manual (0 to 24 dB and Hyper Go	in) Auto/Manual (-3 to 24 dB and Hyper Gain	Auto/Manual (-3 to 18 dB)	*
/hite balance	Auto/Indoor/Outdoor/One-push/Manual		, , , , , , , , , , , , , , , , , , , ,	Auto/Indoor/Outdoor/One-push/N	lanual
mage stabilizer	On/Off (Optical)				
nage flip	On/Off				
ID filter	Off/ND1/ND2	I—	Off/1/4/1/16 switchable in menu	I_	
reset positions	16			6	
nterfaces				-	
ID video output	D-Sub 15 pin: Component (Y/Pb/Pr) o	or RGB, HD, VD or SYNC		-	
D video output	_	BNC: Composite, Mini DIN 4 pin :Y	/C Composite.Y/C	BNC: Composite (NTSC). Mini DIN 4 pir	n:Y/C BNC: Composite (PAL), Mini DIN 4 pin :
xternal Sync input	BNC	zite. composite, iiiii ziit i pii i	Composito, 1, C	2.10.00	, o 2.10. 00poso (1.12), 2.11 1 p 1
amera control		Mini DIN 8 nin: RS-232C (VISCA OUT), Connector plug 9 pin: RS-422 (VISCA IN	I/OLIT)	
Seneral	mini birt o primto 2020 (vidovinty)	2 3 p 10 2020 (1.00.1 00.	y, commoder plag / plante 122 (vice/vi	, 66.)	
	0 to 40 °C (32 to 104 °F)				
· · ·	0 to 40 °C (32 to 104 °F)				
Storage temperature	-20 to 60 °C (-4 to 140 °F)				
Storage temperature Power requirements	-20 to 60 °C (-4 to 140 °F) DC 10.8 to 13.2 V	May 28.8.W (without ontional car	May 18 W (without optional cards)	May 21.6W (without antional co	rirris)
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