



BRC Series Color Video Cameras

BRC-H700

BRC-Z700

BRC-Z330 BRC-300

The BRC Series consists of four Pan/Tilt/Zoom (P/T/Z) cameras—the BRC-H700, BRC-Z700, BRC-Z330, and BRC-300. 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 ideal for a variety of remote video shooting applications, and each camera integrates easily into a wide range of indoor and outdoor systems. These features enable users to enjoy the benefits of the BRC Series cameras, particularly in education, broadcast, corporate, wedding and event 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; delivering superb performance in dimly lit environments, such as concerts or wedding venues. Moreover, the camera offers the widest viewing angle of the BRC Series, delivering broad images of each scene and providing a complete picture of ongoing events.



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 transition to a total HD system.

BRC-Z330

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





BRC-300

The standard-definition BRC-300 comes equipped with three 1/4.7-type Advanced HAD™ CCD sensors. This camera delivers reliable picture quality and is the best choice 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 that are 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. Each camera in the series offers particular benefits, broadening the scope of camera choices for a wide range of applications. To quickly re-use a camera after



someone else has been using it, simply touch a button on the supplied controller to recall pre-selected positions for capturing audio 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 move quickly to capture key scenes at council meetings and courtroom trials. Single-operator switching and



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

Sporting 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 elevated 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. 2,000 m) achieves long-distance data transfer and enables single-operator broadcasting.

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 current operating studio with tripods or ceiling brackets. For the wide angles required in studio shooting, wide conversion lenses are available*3. And there are 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-7700 and BRC-300

Education

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



educational content, academic institutions can deliver e-learning classes, and professors can share lectures and collaborate via networked communication.

House of Worship

By using a large screen in combination with the 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.

Wedding and Event

Pre-installed BRC Series cameras, with their quiet movement, are conducive to a perfectly peaceful and tranquil atmosphere. With high picture performance and zoom



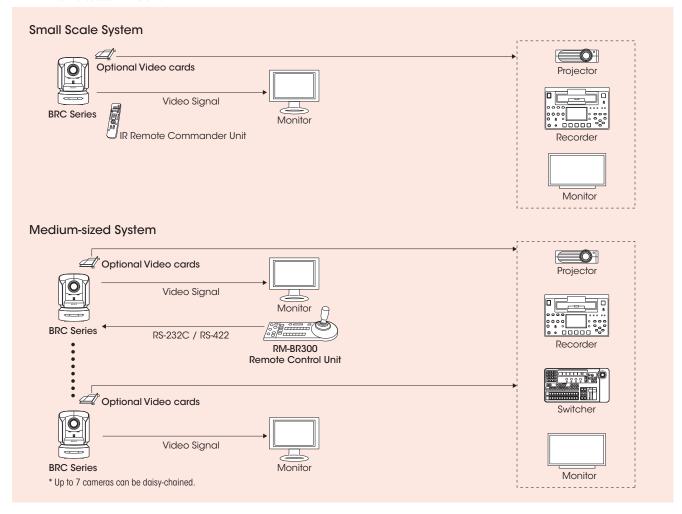
capabilities, these cameras can capture natural facial expressions and graceful movements. Also, due to their compact and sleek design, these cameras blend easily into the surrounding environment.

SYSTEM CONFIGURATION

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

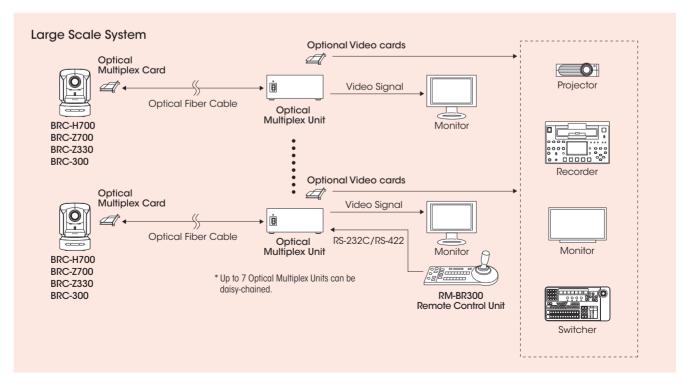
	BRC Simple System							
	BRC-H700	BRC-Z700	BRC-Z330	BRC-300				
Wide Conversion Lens	_	VCL-HG0862*1	_	VCL-0737W				
Optional Video Card (inserted to the BRC Series)	HFBK-HD1 HD-SDI, HD Component (Y/Pb/Pr), RGB		BRBK-HSD2 HD/SD-SDI	BRBK-301 Composite, Y/C, SD Component (Y/Cb/Cr), RGB				
	HFBK-SD1 SD-SDI, Composite, Y/C, SD Component (Y/Cb/Cr), RGB	BRBK-HSD1	BRBK-HD2*2	BRBK-302 SD-SDI				
	HFBK-TS1 i.LINK (HDV)	HD-SDI, SD-SDI	HD-SDI					
	HFBK-XG1 WXGA, XGA, VGA		BRBK-SA1 Analog SD Output Card	BRBK-304 i.LINK (DV)				
Remote Control unit	RM-BR300							

^{*1} The lens hood supplied with the VCL-HG0862K cannot be used.
*2 BRBK-HD2 can not be used with BRU-SF10.

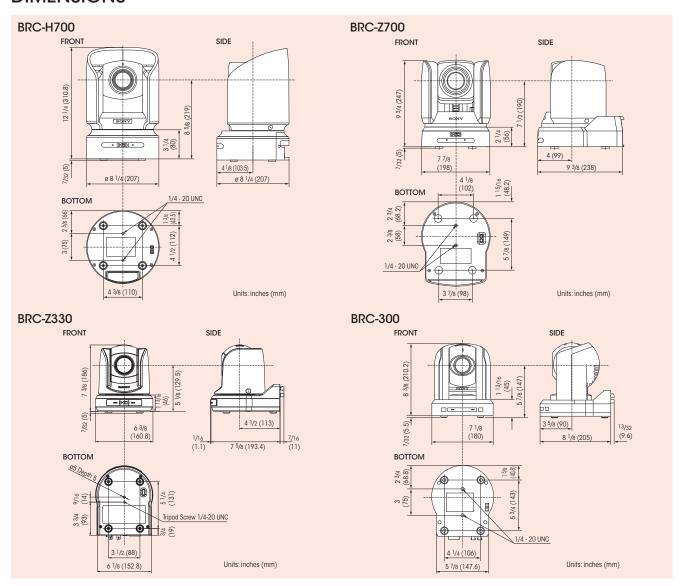


	BRC and BRU System							
	BRC-H700 BRC-Z700		BRC-Z330	BRC-300				
Wide Conversion Lens	_	VCL-HG0862*	_	VCL-0737W				
Optical Multiplex Card (inserted to the BRC Series)	BRBK-H700	BRBK-MF1	BRBK-SF1	BRBK-303				
Optical Fiber Cable	CCFC-M100HG		CCFC-\$200	ссгс-м100нд				
Optical Multiplex Unit	BRU-H700		BRU-SF10	BRU-300				
Optional Video Card (inserted to the BRC Series)	HFBK-HD1 HD-SDI, HD Component (Y/Pb/Pr), RGB		BRBK-HSD2 HD/SD-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	ווטסיסטו	BRBK-302 SD-SDI BRBK-304 i.LINK (DV)				
	HFBK-TS1 i.LINK (HDV)		BRBK-SA1					
	HFBK-XG1 WXGA, XGA, VGA		Analog SD Output					
Remote Control unit	RM-BR300							

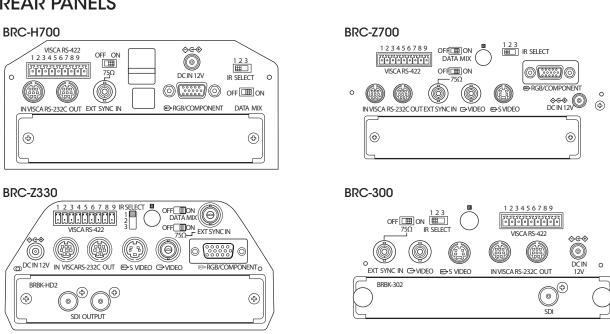
^{*} The lens hood supplied with the VCL-HG0862K cannot be used.



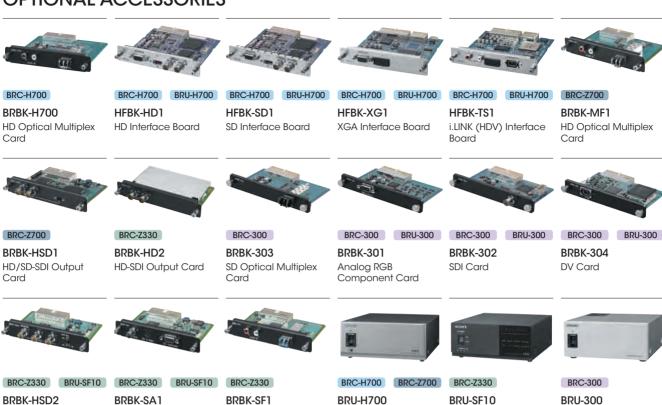
DIMENSIONS



REAR PANELS



OPTIONAL ACCESSORIES





HD/SD-SDI Output

Card



Analog SD Output



HD Optical Multiplex





HD/SD Optical

Multiplex Unit

SD Optical Multiplex

HD Optical Multiplex

BRC-H700 BRC-Z700 BRC-Z330 BRC-300

CCFC-M100HG C
Optical Fiber Cable C2-core Multi-mode Sir
Optical Fiber Cable Fiber (100 m long), Ion
Extension Plug Included

CCFC-S200

Optical Fiber Cable Single mode Optical Fiber Cable (200 m long), Extension Plug Included CCMC-9DS*

RGB/Component, Y/C Cable (9-pin D-sub) VCL-HG0862

BRC-Z700

VCL-HG0862K**
Wide Conversion

VCL-0737W Wide Conversion Lens

BRC-300

PERIPHERAL EQUIPMENT



BRS-200 Remote Camera Operating Switcher

- Live Production and Presentation Switcher for HD or SD Systems
- 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, 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

Course	BRC-H700		BRC-Z700	0	BRC-Z330		В	RC-300			
Camera Signal systems	1080/59.94i or 108 (switchable)	0/50i	1080/59.94 PAL (switch	1i, NTSC or 1080/50i, able)	60 Hz: 1080/59.94 50 Hz: 1080/50i, 7:		IP, NTSC N	NTSC			
Sync systems	Internal/External		(,							
Image device	1/3-type IT CCD x 3			1/	1/4.7- type CCD x 3						
Effective picture elemen	nts Approx. 1.07 Megap	ixels	Approx. 1.04	4 Megapixels	Approx. 2.16 Meg	apixels	Ap	prox. 0.69 Mega	pixels		
Lens	12x optical zoom (48x Carl Zeiss Vario-Sonnar			oom (80x with digital zoom), rio-Sonnar T* lens	18x optical zoom (7	2x with digital	al zoom) 12	2x optical zoom (48x with digital zoom)		
Focal 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	.2) f=	f=3.6 to 43.2 mm (F1.6 to F2.8)			
Lens filter diameter	72 mm		62 mm		_		37	37 mm			
•	ce 500 mm (Wide), 800	0 mm (Tele)		le, Limiter On), 800 mm (Tele)		r On), 1,500 mr	nm (Tele)	300 mm (Wide), 800 mm (Tele)			
Horizontal viewing ano	gle 5.5 to 60.3 degrees		1.8 to 55.2	degrees	3.3 to 55.1 degre	es	4:	4:3 mode: 3.3 to 37.8 degrees, 16:9 mode: 4.0 to 45.4 degrees			
Focusing system	Auto/Manual										
Pan/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) -170 to +170 degrees (Pan), -30 to +90 degrees (Tilt)					es (Tilt)				
Pan/Tilt speed	0.25 to 60 degrees/	, ,		degrees/s (Pan/Tilt)	0.25 to 60 degree	60 degrees/s (Pan/Tilt)					
Minimum illuminatio		8 dB)	6 lx (50 IRE,	,F1.6, +24 dB)			7	lx (25 IRE, F1.6, -	+18 dB)		
Video S/N ratio	50 dB										
Shutter speed		1/10,000 s to 1/60 s or 1/10,000 s to 1/50 s 1/50 s 1/10,000 s to 1/6 s									
Gain				(0 to 24 dB and Hyper Gain)		24 dB and Hype		uto/Manual (-3 to			
White balance		One-push/Manual	Auto 1/Auto2	2/Indoor/Outdoor/One-pus	sh/Manual		AL	uto/Indoor/Outdo	or/One-push/Manual		
lmage stabilizer	On/Off (Optical)				-						
Image flip	On/Off				000000000000000000000000000000000000000						
ND filter	Off/ND1/ND2		-		Off/1/4/1/16 switc	nable in mei		-			
Preset positions	16						6				
Interfaces HD video output	D-Sub 15 pin: Comp	onent (Y/Pb/Pr) o	r RGB, HD, VD	or SYNC			-	-			
SD video output	_		BNC: Compo	osite, Mini DIN 4 pin :Y/C	Composite, Y/C		BN	IC: Composite (NTS)	C),Mini DIN 4 pin:Y/C BNC: Com	posite (PAL).Mini DIN 4 pin :Y/C	
External Sync input	BNC			,			1		-,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Camera control General		32C (VISCA IN), M	Mini DIN 8 pin	n: RS-232C (VISCA OUT), C	onnector plug 9 pi	n: RS-422 (VI	/ISCA IN/OI	JT)			
	re 32 °F to 104 °F (0 °C	C to 40 °C)									
Storage temperature											
Power requirements	DC 10.8 V to 13.2 V										
Power consumption	Max. 24 W (without	Max. 24 W (without optional cards) Max 28.8 W (without optional cards) Max 18 W (without optional cards) Max. 21.6 W (without optional cards)									
Dimensions (W x H x	D) 8 1/4 x 12 1/4 x 8 1/4 inches (8 1/4 x 12 1/4 x 8 1/4 inches (207 x 310.8 x 207 mm) 7 7/8 x 9 3/4 x 9 3/8 inches (198 x 247 x 238 mm) 6 3/8 x 7 3/8 x 7 5/8 inches (160.8 x 186 x 193.4 mm) 7 1/8 x 8 3/8 x 8 1/8 inches (180 x 210.1 x 205 mm)									
Weight	9 lb 15 oz (4.5 kg)										
Supplied accessories	IR Remote Comman	der Unit, AC powe	er adaptor, AC	power cord, RS-422 conr	nector plug, Ceiling	bracket x2, V	Wire rope,	Screws, Operatin	g instructions		
	BRU-H700		RI	RU-SF10		BRU-300	1				
Interfaces	DKO-11700		ات	10-31 10		DI(0-300	,				
	or LC Duplex Fiber Con	nector									
HD video output	D-Sub 15 pin: Comp		r RGB, HD, VD	or SYNC		_					
SD video output	_					BNC: Comp	posite (NTS	SC), Mini DIN 4 pi	n:Y/C		
External sync input	BNC										
External sync output											
Audio line output Camera control	Phono jack x2 (L/R)	33C (VISCA INI) M	Mini DIN 8 nin	DE 2320 WISON OUT) O	toppoetor plug 0 pi	DS 422 (\/I	/ISCV INI/OI	IT\			
Optional card slots General	2 slots	Mini DIN 8 pin: RS-232C (VISCA IN), Mini DIN 8 pin: RS-232C (VISCA OUT), Connector plug 9 pin: RS-422 (VISCA IN/OUT) 2 slots 2 slots (When both slots are used simultaneously, the interface cards must be of two different types.)									
	re 32 °F to 104 °F (0 °C	2 to 40 °C)									
Storage temperature											
Power requirements		C 100 V to 240 V (50/60 Hz) DC 12 V AC 100 V to 240 V (50/60 Hz)									
Power consumption	Max. 10 W (without			ax. 15.6 W (without option	nal cards)	Max. 9 W (without optional cards)					
	D) 8 3/8 x 3 1/2 x 9 1/2	inches (210 x 86				8 3/8 x 3 1/2 x 8 3/8 inches (212 x 88 x 210 mm)					
Weight		5 lb 5 oz (2.4 kg) 4 lb 7 oz (2.0 kg) 4 lb 10 oz (2.1 kg)									
Supplied accessories	AC power cord, RS-422 cable (3 m, Mini DIN 8		tructions att	dadapter, Power cord, DC-cor achment, RS-232C connecti nnector plug, Operationg Ins	ng cable, RS-422	AC power co	ord, RS-422	connector plug, RS	-232C cable (3 m, Mini DIN 8 p	oin), Operating instructions	
Lie	BK-HD1	HFBK-SD1		HFBK-XG1	HFBK-TS1		BRBK-M	en '1	BRBK-HSD1	BRBK-HD2	
Video output D-Si Pb/F	ub 15 pin: Component (Y/ Pr) or RGB, HD, VD or SYNC	D-Sub 9 pin: Componer RGB, Composite or Y/C, S	nt (Y/Pb/Pr) or C SYNC (D-Sub 15 pin: RGB, HD, VD WXGA/XGA/VGA)		OUT L			BNC x2: HD-SDI or SD-SDI	HD-SDI	
	x2: HD-SDI	BNC: Composite BNC:		-	la.			0 (1 (5)			
Audio line input —		— Phono jack x2 (L/R) Pho		Phono jack	(x2 (L/R)	-	<u> -</u>				
BR	BK-303*1	BRBK-301	E	BRBK-302	BRBK-304	E	BRBK-HS	SD2	BRBK-SA1	BRBK-SF1*2	
ideo output LC Duplex Fiber Connector		D-Sub 9 pin: Comp Pb/Pr) or RGB, Com Y/C, SYNC		BNC: SD-SDI	i.LINK 6 pin: DV OUT (IEEE1394 S100)		BNC x3, HI	O-SDI or SD-SDI	BNC x1: VIDEO, Mini DIN 4pin x1: S VIDEO, D-sub 9pin x1: RGB/SYNC	LC Duplex Fiber Connector	
Audio line input —		., 5, 51115			_		_			Phono jack x2 (L/R)	
Connection to CCFC-I	4100UC	I			1				I .	1 JOOK AL (L/N)	

^{*1} Connection to CCFC-M100HG

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Images on screen are simulated.

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i. LINK, "make.believe" and their respective logos are trademarks of Sony.
Vario-Sonnar T is a trademark of Carl Zeiss AG.

^{*2} Connection to CCFC-S200