

# Remote Camera Operating Switcher

BRS-200 HD production & presentation switcher

**SONY**



## Features

### Live Production and Presentation Switcher for HD or SD Systems

The BRS-200 switcher offers user-friendly operability and exquisite system flexibility for live productions and presentations. The BRS-200 can be used for either standard-definition (SD) or High definition (HD) system configurations. The BRS-200 is an ideal tool for many applications, such as event and live staging, conferences, concerts, broadcast operations and much more.

Please note that users will need to select either SD-SDI or HD-SDI input.

### Rich Selection of Inputs and Outputs

The BRS-200 system offers four SDI inputs/outputs and one DVI output as standard. When a different input configuration is required, a variety of optional boards are available, allowing users to configure the system exactly as required. With the addition of optional boards, the BRS-200 provides a maximum of eight SDI and one DVI-I inputs and four SDI and two DVI-I outputs. With these multiple inputs and outputs, the BRS-200 enables image sources to be recorded on a recorder and to be played out, for example, on two monitors and one projector simultaneously.

### Camera Remote Control Capability

The BRS-200 can also control the BRC Series cameras from a remote location. Pan/tilt/zoom, iris and focus can all be controlled using its joystick and dials. This versatile functionality helps contribute to a highly efficient one-man operation.

### Picture-in-Picture and DSK

A standard feature on the BRS-200 is a down stream keyer (DSK) that is capable of performing Luminance, Chroma and Split keys. A Picture-in-Picture facility (simple DVE) is also provided which enables users to superimpose a picture with border over the program background.

## Multi Viewing Function

The BRS-200 comes equipped with a multi viewing function, allowing a single monitor to display all input signals, PGM and PWV via SDI and/or DVI-I outputs. This feature minimizes the number of displays required and allows users to check all pictures at the same time on the same monitor.

- Users have a choice of sixteen, ten, or four split-screens depending on the type of operation and the scale of the system.
- Tally indicators are available: red frame for PGM out, amber square for PWV out and blue square for controlled camera.



**BRC-300P** SD 3-CCD  
Colour Video Camera



**BRC-Z700** HD 3-CMOS  
Colour Video Camera



**BRC-H700** HD 3-CCD  
Colour Video Camera



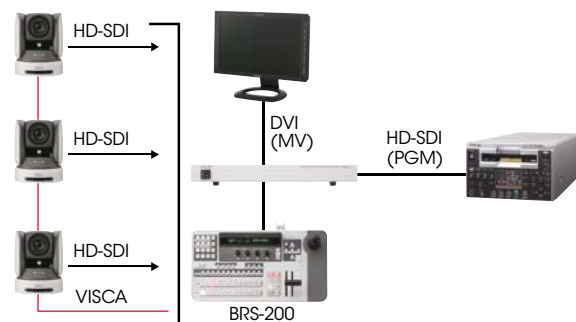
**BRC-Z330** HD CMOS  
Colour Video Camera

# BRS-200 Specifications

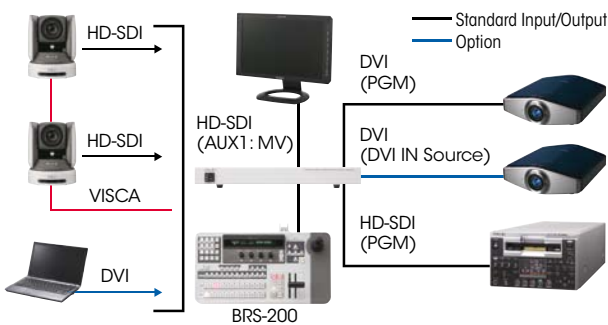
System	HD Mode	SD Mode
Video formats	HD (1080/59.94i, 1080/50i)	SD (480/59.94i, 576/50i)
Video processing	YCbCr 4:2:2, 10 bit	
Inputs/Outputs		
Video input *1	HD-SDI x 4: BNC(HD15)	SD-SDI x 4: BNC
Video input (option) *1*2	HD-SDI x 4: BNC DVI-I x 1 (SXGA, WXGA, XGA) Analogue composite x 1: BNC, S-video x 1: 4-pin mini DIN *3	SD-SDI x 4: BNC
Reference input	Analogue black burst or Tri-level sync.: BNC, with Loopthrough: BNC	Analogue black burst: BNC, with Loopthrough: BNC
Video output	HD-SDI (PGM x 2, AUX x 2) : BNC DVI-I x 1 (WUXGA, HDTV, SXGA, WXGA, XGA) *4	SD-SDI (PGM x 2, AUX x 2) : BNC DVI-I x 1 (SXGA, WXGA, XGA)
Video output (option)	DVI-I x 1 (WUXGA, HDTV, SXGA, WXGA, XGA) *4	DVI-I x 1 (SXGA, WXGA, XGA)
Reference outputs	Analogue black burst or Tri-level sync.: BNC	Analogue black burst: BNC
Image effect		
Effect	Transition: CUT, MIX, WIPE (Fader, AUTO) P in P (AUTO)	
DSK	Chroma key, Luminance key, Linear Key (Split)	
Interface		
Remote	RS-422 x 1: D-sub 9-pin (for switcher control from external devices)	
GPI/TALLY output	12 ports (selectable for I/Os), D-sub 15-pin x 1	
VISCA camera control	VISCA RS-232C x 1: Mini DIN 8-pin VISCA RS-422 x 1: 5-pin contact connector (for BRC Series camera control)	
LAN	100BASE-T: RJ-45 (for the transfer of still images, snapshot data and camera preset positions)	
General		
Power requirements	AC 100 to 240 V, 50/60 Hz	
Power consumption	RP: 85 W (without optional boards), 135 W (with optional boards) CP: 15 W	
Operating temperature	5 to 40 °C	
Dimensions	RP: 430 x 44 x 430 mm (17 x 1 3/4 x 17 inches) (without protrusions) CP: 424 x 70 x 222 mm (16 3/4 x 2 7/8 x 8 3/4 inches) (without protrusions)	
Mass	RP: 7.5 kg (17 oz) (without optional boards), 8.0 kg (18 oz) (with optional boards) CP: 4.3 kg (9 oz)	

## System Configurations

### Basic Configuration



### System Configuration with Optional Cards



## Optional Accessories



### BRSA-20HSD1

Input: HD-SDI/SD-SDI x 4 with frame synchronizer

\* This input board does not accept a mix of HD-SDI and SD-SDI.



### BRSA-20SA1

Input: Composite x 1 and S-Video x 1 with frame synchronizer and up-converter



### BRSA-20DD1

Input: DVI-I (SXGA, WXGA, XGA) x 1 with frame synchronizer and scan converter



### BRSA-20DD2

Output: DVI-I (WUXGA, HDTV, SXGA, WXGA, XGA) x 1

\* In HDTV mode, 1080i Analogue component (Y/Pb/Pr) is available.

\*1 The BRS-200 does not accept the mix of HD-SDI and SD-SDI.

\*2 Maximum of five inputs can be added. (Combination of two input boards of BRSA-20HSD1, BRSA-20SA1 and BRSA-20DD1 can be installed to the BRS-200.)

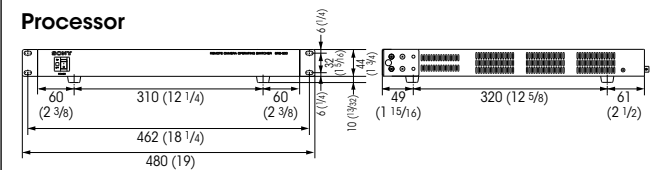
Only for the BRSA-20HSD1, single board can be installed to the BRS-200.)

\*3 In HD mode, input signals can be upconverted to use as HD signals.

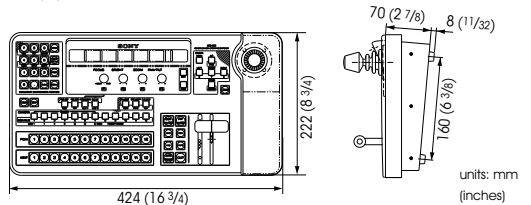
\*4 In HDTV mode, 1080i Analogue component (Y/Pb/Pr) is available.

## Dimensions

### Processor



### Switcher



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BRS-200\_UK\_Datasheet - 05/10/2009

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