

BRC-Z330

1/3-inch CMOS sensor SD / HD
robotic camera



Overview

The BRC-Z330 has been designed to meet growing demand for full HD images from robotic camera. It is equipped with a relatively low-power-consumption 1/3-type 2-megapixel CMOS image sensor. The camera's wide pan/tilt ranges and smooth pan/tilt/zoom capability make it perfect for deployment in locations such as auditoriums, educational facilities, conferences and concerts.

The BRC-Z330 is the smallest model in the Series line up. Its compact and light body makes installation and operation very smooth. Moreover, thanks to the adoption of a direct-drive pan/tilt mechanism, it has a quiet operation that minimizes interference with ongoing events and helps it blend in naturally with surrounding environments.

Excellent Picture Quality

The BRC-Z330 employs two 1/3-type CMOS image sensors. This camera incorporates a newly developed DSP to make effective use of the ClearVid CMOS Sensors, which have been developed using Sony advanced semiconductor technologies. One of the advantages of the CMOS sensor is that vertical smear is minimized. The combination of the new DSP and the ClearVid CMOS Sensors allows the camera to achieve both higher resolution and higher sensitivity compared to cameras equipped with conventional CMOS sensors. Furthermore, the camera's

"color masking" function allows users to adjust specific colours in the image more precisely, while the "colour detail" function allows users to smooth over skin tones.

Flexible Installation - Ceiling Mount or Flat Surface

Because the BRC-Z330 has an "Image Flip" function, the unit can either be mounted on a ceiling using the supplied ceiling mount kit or placed on a flat surface to meet the user's installation and space requirements.

Easy-to-use and Ergonomically Designed Remote Control Unit

All camera settings, including the Pan/Tilt/Zoom functions and sixteen-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.

High Performance Pan/Tilt/Zoom Mechanism

The BRC-Z330 covers a wide shooting range with its highly accurate Pan/Tilt mechanism. It has a very wide pan range of 350 degrees and a tilt range of 120 degrees. Both pan and tilt speeds are variable within the range of 0.22 to 60 degrees per second. What's more, the BRC-Z330 has an extremely quiet motor that is capable of very precise movements. It is capable of capturing not only fast-moving objects, but also slow-moving objects without rocking vibration. For capturing small or distant objects, the BRC-Z330 incorporates a 18 x optical auto-focus zoom lens.

Features

Affordable HD CMOS P/T/Z Camera

Sony introduces the BRC-Z330 to its BRC Series. Equipped with a 1/3-type 2-megapixel CMOS image sensor, this camera provides supreme picture performance to accommodate today's growing demand for full HD images. The camera's wide pan/tilt ranges

and smooth pan/tilt/zoom capability makes it perfect for deployment in locations such as houses of worship and auditoriums, and at education facilities, conferences, and concerts.

Compact Size and Silent Mechanism

The BRC-Z330 is the smallest model in Sony's BRC Series. Its compact and light body makes installation and operation very smooth. Moreover, thanks to the adoption of a direct-drive pan/tilt mechanism, it has a quiet operation that minimizes interference with ongoing events and helps it blend in naturally with surrounding environments. Above all, this camera also incorporates a relatively low power consuming CMOS image sensor.

18x Optical Zoom (72x With Digital Zoom)

By incorporating an 18x optical zoom lens, the BRC-Z330 enables users to zoom in on small or distant objects with a high degree of accuracy. The use of a 4x digital zoom in combination with this optical zoom greatly improves the camera's zooming capability - enabling you to capture accurate physical movements and natural facial expressions of people located far away.

1080i, 720p, and SD Output

The BRC-Z330 simultaneously delivers stunning HD images (1080i or 720p) and SD images. This dual-output capability allows the camera to be integrated into both HD and SD systems, which is good for users who are aiming to migrate into a complete HD system.

Other Features

- Optical Card Slot
- External Synchronization Function
- VISCA Control (RS-232C/RS-422)

Specifications

Camera

Image Sensor	1/3-type CMOS
Image Sensor (Number of Effective Pixels)	Approx. 2.16 Megapixels
Signal System	60 Hz: 1080/59.94i, 720/59.94P, NTSC
Sensitivity	F4.2 (Not to be published)
Minimum Illumination (50IRE)	6 lx (50IRE, F1.6, +24 dB)
Horizontal Resolution	800 TV line (Analog) (Not to be published)
S/N Ratio	50 dB
Gain	Auto/Manual (-3 dB to +24 dB and Hyper Gain)
Shutter Speed	1/10,000 s to 1/60 s or 1/10,000 s to 1/50 s
Exposure Control	Auto, Manual, Priority mode (shutter priority, Gain priority & iris priority), EV compensation, Color AE
Color AE Function	Off/Narrow/STD/Wide switchable in menu

White Balance	Auto1/Auto2/Indoor/Outdoor/One-push/Manual
Optical Zoom	18x
Digital Zoom	4x
Focusing System	Auto/Manual
Horizontal Viewing Angle	55.1°(Wide-end)
Focal Length	F1.6 (Wide), F2.2 (Tele) f=4.6 mm to 82.8 mm
Minimum Object Distance	500 mm (Wide, Limiter On) 100 mm (Wide, Limiter Off) 1,500 mm (Tele)
Pan/Tilt Angle	Tilt: +90°/-30° Pan: ±175°
Pan/Tilt Speed	Tilt: 0.25° to 60°/s Pan: 0.25° to 60°/s
Preset Position	16

Camera Features

Auto ICR	No
Wide-D	No

Image Stabilization	No
Image Flip	On/Off
ND Filter	Off/ 1/4 / 1/16 switchable in menu
Color Gain	-7, -6, -5, -4, -3, -2, -1, 0, +1, +2, +3, +4, +5, +6, +7
Color Hue	-7, -6, -5, -4, -3, -2, -1, 0, +1, +2, +3, +4, +5, +6, +7
Color Matrix	ON/OFF
Color Detail	Off/Narrow/STD/Wide switchable in menu
Skintone Detail	No
Gamma	Normal/Cinema
Gamma Level	NA
Black	NA
Black Gamma	NA
Knee Point	Auto/Low/Mid/High/Off switchable in menu
Knee Slope	NA
Knee Sat Level	NA
Auto Focus Assist	

Function	On/Off
Flicker Cancel	On/Off
B&W	On/Off
Color Bar	On/Off

Interface

HD Video Output	Component (Y/Pb/Pr) or RGB, HD, VD or SYNC
SD Video Output	Composite, Y/C
Camera Control Interface	RS-232C/RS-422 (VISCA)
External Sync. Input	Yes

General

Power Requirements	DC 10.8 V to 13.2 V
Power Consumption	Max 18 W (without optional cards)
Operating Temperature	32 °F to 104 °F 0 °C to 40 °C
Storage Temperature	-4 °F to +140 °F -20 °C to +60 °C

Related
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BRBK-SF1

HD optical multiplex
card for BRC-H900P
and BRC-Z330 robotic
cameras

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