



FCBEV7100

FCB-EV7100 Camera

Block

Pricing available upon request

Overview

Sony is pleased to introduce its new FCB-EV7100 camera. The FCB-EV7100 is our latest 1/2.8 type Exmor CMOS image sensor with Full HD (1920 x 1080) at 60 fps and 10x optical.

Highlights

* Featuring full 1920 x 1080/60p, 10x Zoom, Wide-Dynamic Range, and Auto ICR, the new FCB-EV7100 is a compact High Definition block camera which is ideal for Security Surveillance, Intelligent Traffic, Remote Monitoring, Inspection and Video Conferencing applications. Available picture effects include Color Enhancement, E-flip, Nega Art, Black & White, and Mirror Image.

* Digital Output (Y/Cb/Cr 4:2:2): The digital LVDS interface provides easy access for IP and Gigabit Ethernet applications. Thanks to the digital interface, the quality of the camera's video signal is maintained with minimal deterioration. This can lead to cost savings due to the direct connection with codecs/systems without the need for any additional components.

* Temperature Readout: The value of the internal temperature of the FCB-EV7100 camera can be read out via the VISCA protocol. When checking the internal temperature of equipment (i.e., speed dome unit), it is possible to use this data to turn a fan or heater on/off inside the equipment as needed.

* Color Enhancement: Ideally suited for low vision applications, new color enhancement options can make reading text and pictures less challenging. Available options include monochrome, binary, inverted and enhanced color modes.

* Wide-D Mode: The new FCB-EV7100 camera monitors the luminance differences within an image in high contrast environments. It is possible to select multiple levels of luminance at full 1920 x 1080/60p HD video output.

* White Balance CWB Modes: In addition to the Auto White Balance mode, the new FCB-EV7100 camera features additional modes, including Indoor, Outdoor, One-push WB, ATW, Manual, Sodium Vapor Lamp.

* Visibility Enhancement: Using the Visibility Enhancer function will make the darker part of a camera image brighter as well as automatically correct brightness and contrast to show bright parts clearly without overexposure.

* Defog mode: When the surrounding area of the subject is foggy and low contrast, the defog mode will make the subject appear clearer.

* Auto ICR Function: The FCB-EV7100 camera features a high sensitivity imager, ideal for day/night functions: FCB-EV7100 provides less than 0.35 lux (F1.6, AGC on, 1/30 s)**while in high-sensitivity mode

* Other Key Features:

- o Digital 2D/3D Noise Reduction

- o Spherical Zone Masking

- o Motion Detection Alarm

- o Camera mode display feature

- o Picture Effects: E-Flip, Nega Art, Black & White, Mirror Image, Color Enhancement

- o 120X zoom ratio (10x zoom/12x digital)

- o Electronic shutter/slow shutter

- o TTL signal-level control (VISCA protocol)

Specifications

Camera Specifications	Detail
Image Device	1/2.8 type Exmor CMOS
Effective Pixels	Approx. 2.38 Mega Pixels
Digital Zoom	12x (120x with optical zoom)

Horizontal Viewing Angle	67.0°(wide end) to 7.6°(tele end)
Minimum Object Distance	10 mm (wide end) to 800 mm (tele end) (Default: 320 mm)
Sync System	Internal
Electronic Shutter	1/1 s to 1/10,000 s, 22 steps
White Balance	Auto, ATW, Indoor, Outdoor, Outdoor Auto, Sodium Vapor Lamp (Fix/Auto/Outdoor Auto), One-push, Manual
Gain	Auto/Manual (0 step to 28 step, +2 step/total 15 steps); Max. Gain Limit (6 step to 28step, +2 step /total 12 steps)
Wide Dynamic Range	Yes
Backlight Compensation	Yes
Privacy Zone Masking	Yes
Character Generator	20 characters/line, max. 11 lines
Focus System	Auto (Sensitivity: normal, low), One-push AF, Manual, Interval AF, Zoom Trigger AF, Focus compensation in ICR on
Picture Effects	E-Flip, Nega Art, Black & White, Mirror image, Color enhancement
Exposure Control	Auto, Manual, Priority mode (shutter priority & iris priority), Bright, EV compensation, Slow AE

Video Output Specifications	Detail
Lens Value	10x optical zoom; f=3.8mm (wide) to 38mm (tele); F1.8 to F3.4
S/N Ratio	More than 50 dB
Minimum Illumination	Color: 1.4 lx (F1.8, AGC on, 1/30 s) High Sensitivity Mode Color: 0.35 lx (F1.8, AGC on, 1/30 s)
Video Output	Analog: Component (Y/Pb/Pr); Digital: Y/Cb/Cr 4:2:2 via LVDS; (Signal format conforms to SMPTE 274/SMPTE 296.)

Interfaces Specifications	Detail
Camera Control Interface	VISCA protocol (CMOS 5V level); Baud rate: 9.6 Kbps, 19.2 Kbps, 38.4 Kbps, 115.2 Kbps, Stop bit: 1 bit

General Specifications	Detail
Dimensions (W x H x D)	45.6 mm x 48.8 mm x 78.0 mm
Weight	Approx. 210 g
Operating Temperature	-5 to +60
Storage Temperature	-20 to +60
Operating Humidity	20% to 80%
Storage Humidity	20% to 95%
Power Consumption	3.4W (zoom/focus inactive); 3.7W (zoom/focus active)
Power Requirements	6.0 V to 12.0 V DC

Resources

Brochure

Description:	Release Date	Type/Size	
FCB EV Series Brochure		pdf / 1,586K	Download now