SONY

Sony proudly introduces the first in a new family of 4K modules to its FCB block camera range.

This new camera offers superb 4K resolution at up to 20x zoom, thanks to Sony's Exmor R™ CMOS image sensor technology and an innovative super resolution zoom capability.

Features

Superb Picture Quality with 4K CMOS Sensor

The FCB-ER8300 employs a 1/2.3-type 4K CMOS sensor that offers a resolution four times higher than Full HD (1080p) for excellent detail and image quality.

Super resolution zoom

Unique to Sony, the super resolution zoom feature means the FCB-ER8300 can retain a compact size but achieve the equivalent of 20x zoom at full 4K resolution by intelligently combining the 12x optical lens with digital zoom for superb image quality over distance.

Video outputs from HD to 4K

The FCB-ER8300 supports a 4K video format in 4K resolution with output flexibility. So depending on your application and configuration, you can select the format that's right for you with up to eight video formats from HD to 4K.

Low Power Consumption and Compact Design

This compact block camera is low in power consumption. In addition, the compact and lightweight body means you can install the FCB-ER8300 in many different space-restricted environments.

Other Features

- Auto ICR
- Slow AE
- Privacy zone masking
- Defog
- Noise reduction
- Visibility enhancer

FCB-ER8300



Colour Block Camera





The new FCB-ER8300 block camera incorporates a 1/2.3-type Exmor R sensor capable of 4K resolution (3,840 x 2,160, QFHD) at up to 30p. The camera features a high-quality 12x optical zoom lens which – when combined with super resolution zoom – can maintain 4K resolution at up to 20x zoom, providing enhanced 4K visibility within a compact form factor.

This camera also inherits some of the unique features of Sony's popular FCB Series cameras such as auto ICR, privacy zone masking, noise reduction and visibility enhancement, supporting use under challenging lighting conditions.

These outstanding features and benefits make the FCB-ER8300 ideal for demanding wide-area surveillance applications such as transportation, sports event monitoring, video conferencing, and much more.

Specifications

Camera		FCB-ER8300		
	Image Sensor	1/2.3 type Exmor R CMOS		
	Image Sensor	Approx. 8.93 Mega Pixels		
(Number	of Effective Pixels) 4K	2160p/29.97, 2160p/25		
Signal System	FHD/HD	1080p/59.94,1080p/50,1080i/59.94,1080i/50, 720p/59.94,720p/50		
(50%, High	mum Illumination Sensitivity Mode)	Colour: 0.75 lx (F1.8, AGC on, 1/30 s)		
	mum Illumination %, Normal Mode)	Colour: 3 lx (F1.8, AGC on, 1/30 s)		
	nded Illumination S/N Ratio	100 lx to 100,000 lx		
	Gain	Auto/Manual (0 dB to 33 dB) Max. Gain Limit (9 dB to 33 dB)		
	Shutter Speed Sync System	1/1 s to 1/10,000 s, 22 steps		
	Exposure Control	Auto, Manual, Priority mode (shutter priority & iris priority), Bright, EV compensation		
Backlig	ht Compensation	Yes		
	Aperture Control	16 steps		
	White Balance	Auto, ATW, Indoor, Outdoor, Outdoor Auto, Sodium Vapor Lamp (Fix/Auto/Outdoor Auto), One-push, Manual		
Lens		12x optical zoom, f = 3.9 mm (wide) to 46.8 mm (tele) F1.8 to F2.0		
	Digital Zoom	12x (144x with optical zoom)		
	Focusing System	Auto (Sensitivity: normal, low), One-push AF, Manual, Interval AF, Zoom Trigger AF, Focus compensation in ICR on		
Horizon	tal Viewing Angle (2016p Mode)	70.7° (wide end) to 6.4° (tele end)		
Horizon	ital Viewing Angle (1080p Mode)	70.7° (wide end) to 6.4° (tele end)		
Horizontal Viewing Angle (720p Mode) Horizontal Viewing Angle (SD)		70.7° (wide end) to 6.4° (tele end)		
Minimum Object Distance		10 mm (wide end) to 1,500 mm (tele end) (Default: 300 mm)		
Camera Features		, ,		
	Auto ICR	Yes		
,	Wide-D*1 Visibility Enhancer	No Yes		
<u> </u>	Defog	Yes		
	HLC	Yes		
	Noise Reduction	Yes (6 steps)		
	essive Scan Mode	Yes		
	nage Stabilization tion for Still Image	No No		
iiriage olabiiiza	Stablezoom	No		
	Digital Output	Yes		
Spherical Privo	acy Zone Masking	Yes		
	Motion Detection	Yes		
	Alarm	No V-		
•	Slow AE Response	Yes E-Flip, Black & White, Mirror image,		
	Picture Effects	Colour enhancement		
	Picture Freeze	Yes		
	Slow Shutter	Yes		
Tem	perature Readout	Yes		
Cam	Title Display era Mode Display	20 characters/line, max. 11 lines Yes		
	(ey Switch Control	No No		
	Operation Switch	No		
Interface				
	Output (QFHD,HD)	Digital: Y/Cb/Cr 4:2:2 8bits component, R/G/B 4:4:4 8bits component, Comparable to CEA-861-F		
	ideo Output (HD) ideo Output (SD)	-		
	Control Interface	VISCA (CMOS 3.1 V level), Baud rate: 9.6 Kbps, 19.2 Kbps, 38.4 Kbps, 57.6 Kbps, 115.2 Kbps, Stop bit: 1 bit		
General				
	wer Requirements wer Consumption	6.0 V to 12.0 V DC 2.9 W (zoom/focus inactive), 3.7 W (zoom/focus		
	ating Temperature	active) -5°C to +60°C (23°F to 140°F)		
	rage Temperature	-20°C to +60°C (-4°F to 140°F)		
0	perating Humidity	20% to 80%, Absolute humidity: 36 g/m ³		
	Storage Humidity	20% to 95%, Absolute humidity: 36 g/m ³		
Dimens	ions (W x H x D)*2 Mass	60.0 x 64.0 x 105.0 mm (2 3/8 x 2 5/8 x 4 1/4 inches) Approx. 385 g (Approx. 13.6 oz)		
	141033	, ipp.o 300 g (/ ippiox. 10.0 02)		

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*1 Wide dynamic rapac	*O The values fo	or dimonnions	are appre	vim ata

Pin No.	Name	Level	Remark
1	GND		DataShield
2	TXCLKOUT-		HDMI_CLOCK-
3	TXCLKOUT+		HDMI_CLOCK+
4	GND		DataShield
5	TX0OUT-		HDMI_DATA1-
6	TX0OUT+		HDMI_DATA1+
7	GND		DataShield
8	TX1OUT-		HDMI_DATA1-
9	TX1OUT+		HDMI_DATA1+
10	GND		DataShield
11	TX2OUT-		HDMI_DATA2-
12	TX2OUT+		HDMI_DATA2+
13	GND		DataShield
14	GND		
15	SCL		HDMI_SCL
16	SDA		HDMI_SDA
17	HPD		HDMI_HPD
18	D_5.0 V_OUT		HDMI_5V
19	USB_VBUS		USB2.0
20	GND		
21	USB_D-		USB2.0
22	USB_D+		USB2.0
23	GND		
24	UART_RX		VISCA
25	UART_TX		VISCA
26	RESET		
27	DC_IN	6 to 12 V DC	
28	DC_IN	6 to 12 V DC	

6 to 12 V DC

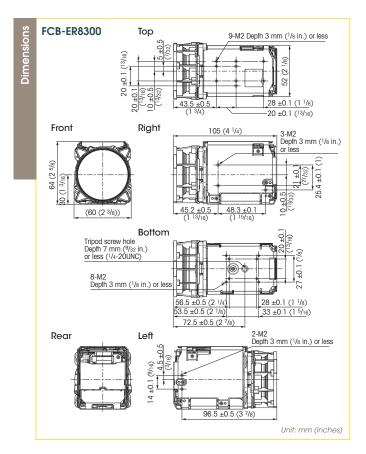
6 to 12 V DC

Connector: USL00-30L-C (KEL Co.)

DC_IN

DC_IN

30



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