





FCB-EV7100

FCB-IV7315



Specifications

		FCB-IV7315	FCB-EV7100
Image sensor		1/2.8-type Exmor CMOS	
Image sensor (Number of effective pixels)		Approx. 2.38 Megapixels	
Signal system		1080p/59.94,1080p/50,1080p/60,1080p/30,1080p/29.97,1080p/25, 1080i/59.94,1080i/50,1080i/60,1080i/30,720p/59.94,720p/50,720p/60, 720p/30,720p/29.97,720p/25,NTSC*1,PAL*	
Minimum illumination	High sensitivity mode	Colour: 0.1 lx (F1.6, AGC on, 1/30 s)	Colour: 0.35 lx (F1.8, AGC on, 1/30 s)
(50%)	Normal mode	Colour: 0.4 lx (F1.6, AGC on, 1/30 s)	Colour: 1.4 lx (F1.8, AGC on, 1/30 s)
S/N ratio		More than 50 dB	
Gain		Auto/Manual (0 step to 28 step (0 dB to 47.8 dB), +2 step/total 15 steps)	Auto/Manual (0 step to 28 step, +2 step/total 15 steps)
		Max. Gain Limit (6 step to 28 step (17.1 dB to 47.8 dB),+2 step step/ total 12 steps)	Max. Gain Limit (6 step to 28 step, +2 step/total 12 steps)
Shutter speed		1/1 s to 1/10,000 s, 22 steps	
Sync system		Internal	
Exposure control		Auto, Manual, Priority mode (shutter priority & iris priority), Bright, EV compensation, Slow AE	
Backlight	t compensation	Yes	
A	Aperture control	16 steps	
White balance		Auto, ATW, Indoor, Outdoor, Outdoor Auto, Sodium Vapor Lamp (Fix/Auto/Outdoor Auto), One-push, Manual	
Lens		20x optical zoom f = 4.7 mm (wide) to 94 mm (tele) F1.6 to F3.5	10x optical zoom f = 3.8 mm (wide) to 38 mm (tele) F1.8 to F3.4
	Digital zoom	12x (240x with optical zoom)	12x (120x with optical zoom)
Focusing system		Auto (Sensitivity: normal, Iow), One-push AF, Manual, Interval AF, Zoom Trigger AF, Focus compensation in ICR on	
	1080p mode	59.5° (wide end) to 3.3° (tele end)	67.0° (wide end) to 7.6° (tele end)
Horizontal viewing angle	720p mode	59.5° (wide end) to 3.3° (tele end)	67.0° (wide end) to 7.6° (tele end)
	SD	44.6° (wide end) to 2.5° (tele end)	50.3° (wide end) to 5.7° (tele end)
Minimum object distance		10 mm (wide end) to 1,000 mm (tele end) (Default: 300 mm)	10 mm (wide end) to 800 mm (tele end) (Default: 320 mm)

Colour Block Camera

Sony proudly introduces a new family of Full-HD modules to its FCB block cameras suitable for non-security applications.

The new FCB-IV7315 camera module incorporates a 20x optical zoom lens suitable for short distance applications. In addition, this camera incorporates an Optical Low Pass Filter (OLPF) that provides extremely clear images, decreasing the effect of moiré when shooting documents or artificial patterns from a close distance. These useful features are ideal for low vision systems.

The FCB-EV7100 camera module incorporates a10x optical zoom lens and wide dynamic range. This camera provides high quality images with both digital and analog output.

Now with a choice of non-security modules, you can select the right camera to match your specific needs. Each camera provides flexibility and high image quality for a wide variety of applications, including document scanning.

* Non-standard video format

Specifications

	solutions	

		FCB-IV7315	FCB-EV7100
	Auto ICR	Ye	es
	Wide-D*	No Yes (130 dB)	
Visibility Enhancer		Ye	əs
De-fog		Yes	
HLC		Yes	
Noise reduction		Yes (6 steps)	
Progressive scan mode		Yes	
Image stabilization		No	
Image stabilizatio	n for still image	No	
	StableZoom	Yes	
Digital output		Yes	
Spherico	al privacy zone masking	Yes	
Mot	ion detection	Ye	es
Alarm		No	
Slow AE response		Yes	
Picture effects		E-Flip, Nega Art, Black & White, Mirror image, Colour enhancement	
Picture freeze		Yes	
Slow shutter		Yes	
Temperature readout		Yes	
	Title display	20 characters/line, max. 11 lines	
Camera	mode display	Yes	
Key s	switch control	No	
Camera operation switch		No	
	HD	N/A	Analog: Component (Y/Pb/Pr)
Video output		Digital: Y/Cb/Cr 4:2:2 via LVDS (Signal format conforms to SMPTE 274/SMPTE 296.)	
	SD	VI	BS
Camora oo	ntrol interface	VISCA (CMOS 5 V level)	VISCA protocol (CMOS 5V level)
Cumera cor	morimenace	Baud rate: 9.6 Kbps, 19.2 Kbps, 38.4 Kbps, 115.2 Kbps, Stop bit: 1 bit	
Power requirements		6.0 V to 12.0 V DC	
Power consumption		2.4 W (zoom/focus inactive)	3.4 W (zoom/focus inactive)
		2.9 W (zoom/focus active)	3.7 W (zoom/focus active)
Operating temperature		-5°C to +60°C (23°F to 140°F)	
Storage temperature		-20°C to +60°C (-4°F to 140 °F)	
Operating humidity		20% to 80%, Absolute humidity: 36 g/m ³	
Storage humidity		20% to 95%, Absolute humidity: 36 g/m³	
Dimensions (W x H x D)		50.0 x 60.0 x 87.9 mm (2 x 2 3/8 x 3 1/2 inches)	45.6 x 48.8 x 78.0 mm (1 13/16 x 1 15/16 x 3 1/8 inches)
Mass		270 g (9.6 oz)	210 g (7.4 oz)

Pin No.	Name	Level
1	TXOUT3+	
2	TXOUT3-	
3	TXCLKOUT+	
4	TXCLKOUT-	
5	TXOUT2+	
6	TXOUT2-	
7	TXOUT1+	
8	TXOUT1-	
9	TXOUT0+	
10	TXOUTO-	
11	GND	
12	TxD	CMOS 5 V (Low: Max. 0.1 V, High: Min. 4.4 V)
13	RxD	CMOS 5 V (Low: Max. 1.0 V, High: Min. 2.3 V)
14	DC IN	6 to 12 V DC
15	DC IN	6 to 12 V DC
16	DC IN	6 to 12 V DC
17	DC IN	6 to 12 V DC
18	DC IN	6 to 12 V DC
19	GND	
20	GND	
21	TXOUT7+	Single out mode: open
22	TXOUT7-	Single out mode: open
23	TXOUT6+	Single out mode: open
24	TXOUT6-	Single out mode: open
25	NC	
26	RESET	Reset: Low (GND Normal: Open (1.8 V)
27	TXOUT5+	Single out mode: open
28	TXOUT5-	Single out mode: open
29	TXOUT4+	Single out mode: open
30	TXOUT4-	Single out mode: open

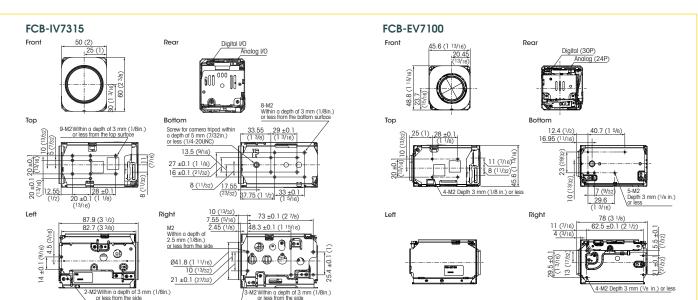
Pin assignments

Pin No.	Name	Level
1	GND	
2	TxD	CMOS 5 V (Low: Max. 0.1 V, High: Min. 4.4 V)
3	RxD	CMOS 5 V (Low: Max. 1.0 V, High: Min. 2.3 V)
4	RESET	Reset: Low (GND) Normal: Open (1.8 V)
5	GND	
6	NC	
7	GND	
8	NC	
9	GND	
10	VBS-OUT	
11	GND	
12	Y-OUT	HD Analog Component
13	GND	
14	Pb-OUT	HD Analog Component
15	GND	
16	Pr-OUT	HD Analog Component
17	GND	
18	DC IN	6 to 12 V DC
19	DC IN	6 to 12 V DC
20	DC IN	6 to 12 V DC
21	DC IN	6 to 12 V DC
22	GND	
23	DC IN	6 to 12 V DC
24	GND	

Connector: 046240024006800+ (Kyocera-elco)

* Wide dynamic range

Dimensions



Unit: mm (inches)

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