SONY



FCB-FV752



FCB-EV732



FCB-EV7500



FCB-FV7100



FCB-EV7300



FCB-EV5500



FCB-EV7310



FCB-EV5300



FCB-EV Series

Colour Block Cameras

Exmor R	Exmor
STARVIS	FCB-EV7500
	FCB-EV7300
FCB-EV7520	FCB-EV7310
FCB-EV7320	FCB-EV7100
	FCB-EV5500
	FCB-EV5300

FCB-EV7520 FCB-EV7320

FCB-EV7500 FCB-EV7300 FCB-EV7310 FCB-EV7100 FCB-EV5500 FCB-EV5300



Sony expands the FCB-EV Series camera block line-up with the introduction of two new high-sensitivity, high-quality cameras. The new FCB-EV7520 and FCB-EV7320 incorporate a 1/2.8-type Exmor RTM CMOS sensor which provides Full-HD video with extraordinary sensitivity.

In addition, these cameras incorporate STARVISTM technology to realize high picture quality in visible light and near-infrared light.

Now Sony's FCB-EV Series offers a broad range of products from 10x to 30x optical zoom, and either HD or Full-HD. All of these cameras inherit a multitude of Sony's world-renowned FCB features, including Auto ICR, Spherical Privacy Zone Masking, and Defog.

	FCB-EV7500	FCB-EV7520	FCB-EV7300	FCB-EV7320	FCB-EV7310	FCB-EV7100	FCB-EV5500	FCB-EV5300
Imager sensor	1/2.8-type Exmor CMOS	1/2.8-type Exmor R CMOS	1/2.8-type Exmor CMOS	1/2.8-type Exmor R CMOS	1/2.8-type E	xmor CMOS	1/3-type Ex	mor CMOS
Lens	30	Ох		20x		10x	30x	20x
Picture quality			Full HD 1080p	(1920 x 1080)			HD (128	0 x 720)
Minimum illumination*	Colour: 0.35 lx (F1.6, AGC on, 1/30 s)	Colour: 0.01 lx (F1.6, AGC on, 1/30 s)	Colour: 0.1 lx (F1.6, AGC on, 1/30 s)	Colour: 0.01 lx (F1.6, AGC on, 1/30 s)	Colour: 0.1 lx (F1.6, AGC on, 1/30 s)	Colour: 0.35 lx (F1.8, AGC on, 1/30 s)	Colour: 0.25 lx (F1.6, AGC on, 1/30 s)	Colour: 0.05 lx (F1.6, AGC on, 1/30 s)
Digital zoom	12x (360x with	optical zoom)	12x ((240x with optical zo	pom)	12x (120x with optical zoom)	12x (360x with optical zoom)	12x (240x with optical zoom)
Video output (HD)	Digital/Analog	Digital	Digital/Analog	Digital	Digital	Digital,	'Analog	Digital
Video output (SD)				VI	BS .			
Mass	260 g (9.2 oz)	255 g (9.0 oz)	270 g (9.6 oz)	265 g (9.3 oz)	270 g (9.6 oz)	210 g (7.4 oz)	260 g (9.2 oz)	270 g (9.6 oz)
Dimensions	50 x 60 x (2 x 2 3/8 x 3	89.7 mm 3 5/8 inches)	(2	50 x 60 x 87.9 mm x 2 3/8 x 3 1/2 inch	es)	45.6 x 48.8 x 78 mm (1 13/16 x 1 15/16 x 3 1/8 inches)	50 x 60 x 89.7 mm (2 x 2 3/8 x 3 5/8 inches)	50 x 60 x 87.9 mm (2 x 2 3/8 x 3 1/2 inches)
Defog	•	•	•	•	•	•	•	•
HLC (High Light Compensation)	•	•	•	•	•	•	•	•
Wide-D (Wide Dynamic range)	•	•	•	•		•	•	•
Image stabilizer	•	•	•				•	•
StableZoom	•	•	•	•	•	•	•	•
Auto ICR (Auto IR-cut Filter Removal)	•	•	•	•	•	•	•	•
Spherical privacy zone masking	•	•	•	•	•	•	•	•
Noise reduction	•	•	•	•	•	•	•	•
Slow AE response	•	•	•	•	•	•	•	•
* High sensitivity mode, ICR off.								

eatures

Exmor R CMOS sensor

FCB-EV7520 / FCB-EV7320



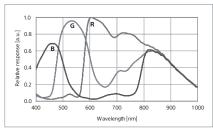
FCB-EV7520, FCB-EV7320



current model

Near-infrared Response

FCB-EV7520 / FCB-EV7320 / FCB-EV7310



Excludes lens characteristics and light source characteristics

Capture crisp, clear Full-HD (1080/60p) images*1

The high-performance 1/2.8-type Exmor CMOS image sensor achieves superb Full-HD (1920 x 1080) picture quality, even in lowlight environments. Progressive scanning assures smoother pictures with reduced blur - ideal for capturing the detail in moving images.

Get a steadier picture with image

The camera's built-in image stabilizer function counters the effect of blurred, shaky images caused by low-frequency vibration. This is useful for outdoor surveillance and traffic monitoring applications, particularly if the camera is used on a bridge or mounting pole where it is subjected to wind or mechanical vibration.

StableZoom

Image stabilizer and optical/digital zoom are combined to enhance picture quality while maintaining the original horizontal angle of view.

This ensures no compromise in image size, and reduces blurring.

2D/3D noise reduction

Advanced noise reduction technology filters noise from the image for clearer results, especially in low-light conditions. Noise reduction can be selected from five levels to suit a wide range of operating environments.

Wide dynamic range

Wide-D image processing technology gives the ability to see clear, detailed images in high-contrast or backlit environments. models now support an exceptionally wide 130 dB dynamic range, which is activated via VISCA command.*3

De-fog

The de-fog feature allows clearer and natural viewing in foggy or misty scenes. When this feature is activated, the camera detects the haze level and automatically applies the required effects. Depending on user requirements, the level of these effects can be adjusted via VISCA command.

HLC (High Light Compensation)

HLC technology helps to improve, for example, the visibility of license plates when bright headlights are shot under low-light conditions. The bright parts in the image are masked and compensated for automatically to achieve better visibility.

Auto ICR (Auto IR-cut Filter Removal)

In low-light conditions, the camera automatically switches from Day to Night mode, removing the IR-cut filter to boost sensitivity for clear pictures in near-darkness. The spherical privacy zone masking feature enables areas of view to be selectively masked for privacy. Masked areas are automatically interlocked with the camera's pan/tilt/zoom movements.

Privacy Zone Masking

Privacy Zone Masking protects private objects and areas such as house windows, entrances, and exits which are within the camera's range of vision but not subject to surveillance. Privacy zones can be masked on the monitor to protect privacy.

Choice of HD and SD output modes

Video signal outputs are available in a range of HD (digital and analog) and SD formats, reducing integration cost and complexity by avoiding the need for additional analog/digital converters. Video output modes can be changed 'on the fly' during normal operation, without a hardware reboot of the camera.

Wide range of features for versatile operation

Versatile operation is ensured by a wide range of functions and adjustments, including: White Balance modes; Picture effects (E-Flip, Nega Art, Black & White, Mirror Image, Colour Enhancement); Motion Detection/Alarm; Picture freeze; Temperature readout; Slow AE response; Electronic shutter/ slow shutter; and Title display/Camera mode display (English).

^{*1} The FCB-EV5500 and FCB-EV5300 achieve crisp HD 720 picture quality.

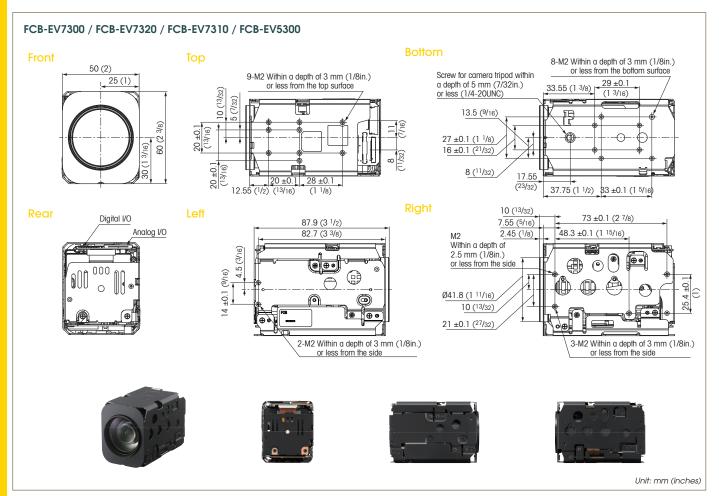
^{*2} Excludes the FCB-EV7310 and FCB-EV7100. *3 For the FCB-EV7100/FCB-EV7500, the factory default setting is 90 dB. For the FCB-EV7300/FCB-EV5500/FCB-EV5300, it is 130 dB.

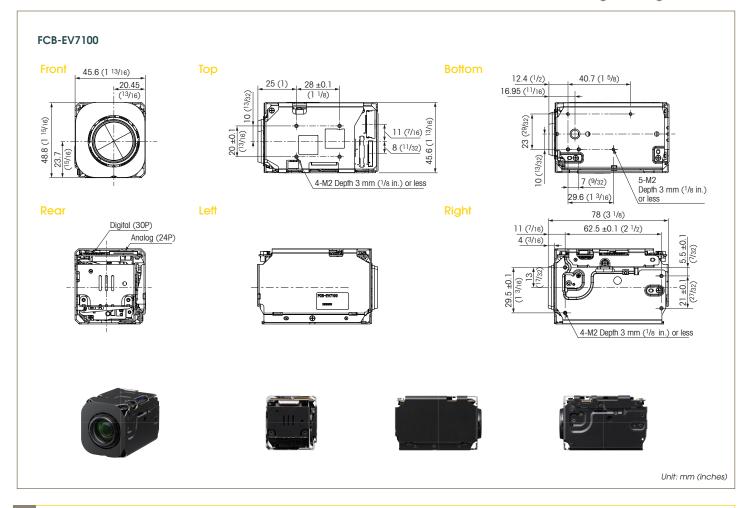
FCB-EV Series Specifications

	Image conse	FCB-EV7500	FCB-EV7520	FCB-EV7300	FCB-EV7320	FCB-EV7310	FCB-EV7100	FCB-EV5500	FCB-EV5300
	Image sensor	1/2.8-type Exmor CMOS	1/2.8-type Exmor R CMOS	1/2.8-type Exmor CMOS	1/2.8-type Exmor R CMOS	1/2.8-type E	xmor CMOS	1/3.0-type E	xmor CMOS
	Image sensor per of effective pixels)	Approx.2.38 Megapixels	Approx.2.13 Megapixels					Approx. 1.37 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* ¹				720p/60, 720p/30, 7 720p/29.97, 720p	20p/59.94, 720p/50, /25, NTSC* ¹ , PAL* ¹		
Minimum illumination (50%)	High sensitivity mode	Colour: 0.35 lx (F1.6, AGC on, 1/30 s)	Colour: 0.01 lx (F1.6, AGC on, 1/30s)	Colour: 0.1 lx (F1.6, AGC on, 1/30s)	Colour: 0.01 lx (F1.6, AGC on, 1/30s)	Colour: 0.1 lx (F1.6, AGC on, 1/30s)	Colour: 0.35 lx (F1.8, AGC on, 1/30 s)	Colour: 0.25 lx (F1.6, AGC on, 1/30 s)	Colour: 0.05 lx (F1.6 AGC on, 1/30 s)
	Normal mode S/N ratio	Colour: 1.4 lx (F1.6, AGC on, 1/30 s)	Colour: 0.1 lx (F1.6, AGC on, 1/30s)	Colour: 0.4 lx (F1.6, AGC on, 1/30s)	Colour: 0.1 lx (F1.6, AGC on, 1/30s)	Colour: 0.4 lx (F1.6, AGC on, 1/30s)	Colour: 1.4 lx (F1.8, AGC on, 1/30 s)	Colour: 1.0 lx (F1.6, AGC on, 1/30 s)	Colour: 0.2 lx (F1.6, AGC on, 1/30 s)
	Gain	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual
	Guil	0 dB to 43.1 dB (0 to 28 steps +2 step/ total 15 steps)	0 dB to 50.0dB (0 to 28 steps +2 step/ total 15 steps)	0 dB to 48.8 dB (0 to 28 steps +2 step/ total 15 steps)	0 dB to 50.5dB (0 to 28 steps +2 step/ total 15 steps)	0 dB to 47.8 dB (0 to 28 steps +2 step/ total 15 steps)	0 to 43.5 dB (0 to 28 steps +2 step/ total 15 steps)	0 dB to 47.0 dB (0 to 28 steps +2 step/ total 15 steps)	0 dB to 51.9 dB (0 to 28 steps +2 step/ total 15 steps)
		Max. Gain Limit 9.2 to 43.1 dB (6 to 28 steps +2 step/ total 12 steps)	Max. Gain Limit 10.7 dB to 50.0 dB (6 to 28 steps +2 tep/ total 12 steps)	Max Gain Limit 17.4 dB to 48.8 dB (6 to 28 steps +2 steps/total 12 steps)	Max Gain Limit 10.8 dB to 50.5 dB (6 to 28 steps +2 steps/total 12 steps)	Max Gain Limit 17.1 dB to 47.8 dB (6 to 28 steps +2 steps/total 12 steps)	Max. Gain Limit 9.3 to 43.5 dB (6 to 28 steps +2 step/ total 12 steps)	Max. Gain Limit 10.1 to 47.0 dB (6 to 28 steps +2step/ total 12 steps)	Max Gain Limit 18.5 dB to 51.9 dB (t to 28 steps +2 step/ total 12 steps)
	Shutter speed					000 s, 22 steps			
	Sync system				Inte				
	posure control compensation			uto, Manual, Priority m	node (shutter priority &	iris priority), Bright, EV	compensation, Slow A	E	
	perture control					teps			
	White balance		Auto, ATW	Indoor Outdoor Out	door Auto, Sodium Vap		utdoor Auto). One-pus	n. Manual	
	Lens	20					10x optical zoom	30x optical zoom	20x optical zoom
		f = 4.3 mm (wide) F1.6 to		f = 4.7	20x optical zoom mm (wide) to 94.0 mn F1.6 to F3.5	n (tele)	f = 3.8 mm (wide) to 38 mm (tele) F1.8 to F3.4	f = 4.3 mm (wide) to 129.0 mm (tele) F1.6 to F4.7	f = 4.7 mm (wide) to 94.0 mm (tele) F1.6 to F3.5
	Digital zoom	12x (360x with	optical zoom)	12>	(240x with optical zoo	om)	12x (120x with optical zoom)	12x (360x with optical zoom)	12x (240x with optical zoom)
For	cusing system		Auto (Sens	l itivity: normal, low), Or	ne-push AF, Manual, Inte	erval AF, Zoom Trigger			
Horizontal viewing angle	1080p mode	63.7° (wide end)	to 2.3° (tele end)	59.5°	(wide end) to 3.3° (tele	e end)	67.0° (wide end) to 7.6° (tele end)		-
urigie	720p mode	63.7° (wide end)	to 2.3° (tele end)	59.5°	(wide end) to 3.3° (tele	e end)	67.0° (wide end) to 7.6° (tele end)	58.3° (wide end) to 2.1° (tele end)	54.1° (wide end) to 2.9° (tele end)
	SD	47.8° (wide end)	to 1.7° (tele end)	44.6°	(wide end) to 2.5° (tele	e end)	50.3° (wide end) to 5.7° (tele end)	58.3° (wide end) to 2.1° (tele end)	54.1° (wide end) to 2.9° (tele end)
Minimum ob	bject distance	10 mm (wide end) to (Default:	300 mm (tele end)	10 mm (w	ride end) to 1,000 mm (Default: 300 mm)	(tele end)	10 mm (wide end) to 800 mm (tele end) (Default: 320 mm)	10 mm (wide end) to 1200 mm (tele end) (Default: 300 mm)	10 mm (wide end) to 1,000 mm (tele end) (Default: 300 mm)
	Auto ICR				Ye	1			
Viole	Wide-D*2 Dility Enhancer	Yes (130 dB)	Yes (120 dB)	Yes (130 dB)	Yes (120 dB)	No es		Yes (130 dB)	
VISIL	De-fog				Ye				
	HLC		,		Ye				
No	oise reduction				Yes (6	steps)			
	ge stabilization		Yes		Yes (6	steps) No		Ye	es
lmag	ge stabilization StableZoom		Yes		Yes (6	No		Ye	es
lmag	ge stabilization StableZoom al privacy zone		Yes		Ye	No		Ye	es
Imag Spherica	ge stabilization StableZoom		Yes		Yo Yo	No		Ye	es
Imag Spherica	ge stabilization StableZoom al privacy zone masking		Yes		Yo Yo	No No ses		Y	98
Spherica Mo:	ge stabilization StableZoom all privacy zone masking tion detection Alarm w AE response		Yes		, , , , , , , , , , , , , , , , , , ,	No N		, Vi	25
Spherica Mo:	ge stabilization StableZoom all privacy zone masking tion detection Alarm w AE response Picture effects		Yes	E-Flip, Negr	Ye Ye Ye a Art, Black & White, Mi	No SS SS SS SS SS Tror image, Colour ent	nancement	Y	25
Spherica Mo:	ge stabilization StableZoom all privacy zone masking tion detection Alarm w AE response		Yes	E-Flip, Nego	Ye Ye Ye a Art, Black & White, Mi	No SS SS SS SS SS Tror image, Colour ent	nancement	Y	98
Imag Spherica Mo Slov	ge stabilization StableZoom al privacy zone masking tion detection Alarm w AE response Picture effects Picture freeze		Yes	E-Flip, Nego	Ye Ye Ye Ye a Art, Black & White, Mi Ye	No PS	nancement	Y	98
Spherica Mo: Slov	ge stabilization StableZoom all privacy zone masking dion detection Alarm w AE response Picture effects Picture freeze Slow shutter rature readout		Yes	E-Filp, Nego	Ye Ye Ye a Art, Black & White, Mi Ye Ye 20 characters/li	No PS	nancement	Y	98
Imag Spherica Mo Slov Temper	ge stabilization StableZoom Al privacy zone masking dion detection Alarm w AE response Picture effects Picture freeze Slow shutter rature readout Title display mode display		Yes	E-Filp, Negr	Ye Y	No PS	nancement	Y	98
Imag Spherica Mo Slov Temper Camera Key	ge stabilization StableZoom Al privacy zone masking dition detection Alarm w AE response Picture effects Picture freeze Slow shutter arture readout Title display mode display switch control		Yes	E-Flip, Nego	Yellow White, Millow White, Millow White, Millow White, Millow White, Millow White, Millow White, Willow White, Wh	No PS PS PS PS PS PS PS PS PS P	nancement	Y	98
Imag Spherica Mo Slov Temper Camera Key	ge stabilization StableZoom Al privacy zone masking dion detection Alarm w AE response Picture effects Picture freeze Slow shutter rature readout Title display mode display	Analog: Component (Y/P _B /P _B)	Yes N/A	E-Flip, Nega Analog: Component (Y/P _B / P _B)	Ye Y	No PS PS PS PS PS PS PS PS PS P		onent (Y/Ps/Pr)	N/A
Imag Spherica Mo Slov Temper Camera Key Camera op Video	ge stabilization StableZoom Alprivacy zone masking dion detection Alarm w AE response Picture effects Picture freeze Slow shutter rature readout Title display mode display switch control peration switch HD	Component (Y/PB/	N/A	Analog: Component (Y/Ps/ Ps) Digital: Y/Cs/C	Ye Ye Ye Ye Ye Ye Ye Art, Black & White, Mi Ye Ye Ye 20 characters/li N N N N R 4:2:2 via LVDS Io SMPTE 274/SMPTE 2	No ses ses ses ses ses ses ses ses ses se		onent (Y/Ps/Pr)	N/A 8:4:2:2 via LVDS
Imag Spherica Mo Slov Temper Camera Key Camera op Video output	ge stabilization StableZoom Al privacy zone masking dition detection Alarm w AE response Picture effects Picture freeze Slow shutter rature readout Title display mode display switch control ereation switch HD	Component (Y/PB/	N/A	Analog: Component (Y/Ps/ Ps) Digital: Y/Cs/C	We will a Art, Black & White, Mill a Art, Black & White, Mill will will a Art, Black & White, Mill will will a Art, Black & White, Mill will will will a Art, Black & White, Mill will will will will will a Art, Black & White, Mill will will will will will will will	No PS PS PS PS PS PS PS PS PS P		onent (Y/Ps/Ps)	N/A 8:4:2:2 via LVDS
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Image Spherica Mo Slov Temper Camera Key Camera op Video output Camera co Power Power Operating Storage Opera	ge stabilization StableZoom Alarm Alarm W AE response Picture effects Picture freeze Slow shutter rature readout Title display mode display M AE response Picture freeze Slow shutter rature readout Title display mode display mode display had be a suited to the control peration switch HD SD Introl interface requirements consumption g temperature e temperature e temperature ating humidity	Component (Y/Ps/Ps) 2.9 W (zoom/focus inactive) 3.7 W (zoom/focus active)	N/A (Signal State of the state	Analog: Component (Y/Ps/Ps) Digital: Y/Cs/C gnal format conforms Baud rate: 3.0 W (zoom/focus inactive) 3.5 W (zoom/focus active)	Art, Black & White, Mi Art, Black & White, Mi Ye 20 characters/li N 20 characters/li N N N VISCA (CMM 9.6 Kbps, 19.2 Kbps, 38 6.0 V to 1 3.2 W (zoom/focus inactive) 3.6 W (zoom/focus active) -5°C to +60°C -20°C to +60°C 20% to 80%, Absolut	No as as as as as as as as as a	Analog: Composite of the composite of th	onent (Y/Ps/Pr) Digital: Y/Cs/C (Signal format conf 2.9 W (zoom/focus inactive) 3.5 W (zoom/focus	N/A n 4:2:2 via LVDS porms to SMPTE 296.) 1.9 W (zoom/facus inactive) 2.4 W (zoom/facus
Image Spherica More Slove Slove Spherica Camera Cam	ge stabilization StableZoom Alarm Alarm w AE response Picture freeze Slow shutter rature readout Title display mode display switch control peration switch AD BD Introl interface r requirements r consumption g temperature e tem	Component (Y/Ps/Ps) 2.9 W (zoom/focus inactive) 3.7 W (zoom/focus active)	N/A (Signal State of the state	Analog: Component (Y/Ps/Ps) Digital: Y/Cs/C gnal format conforms Baud rate: 3.0 W (zoom/focus inactive) 3.5 W (zoom/focus active)	Art, Black & White, Mi Art, Black & White, Mi Ye 20 characters/li Ye 20 characters/li Ye 20 characters/li Ye N N N N I A A SA A SA SA SA G SA SA SA	No as as as as as as as as as a	Analog: Composite 1 bit 3.4 W (zoom/facus inactive) 3.7 W (zoom/facus active) 45.6 x 48.8 x 78.0 mm (1 13/16 x 1 1/8)	Digital: Y/Ps/Pix) Digital: Y/Cs/C (Signal format conf 2.9 W (zoom/focus inactive) 3.5 W (zoom/focus active) 50.0 x 60.0 x 89.7 mm (2 x 2 3/8 x 3	N/A a 4:2:2 via LVDS orms to SMPTE 296.) 1.9 W (zoom/focus inactive) 2.4 W (zoom/focus active) 50.0 x 60.0 x 87.9 mm (2 x 2 3/8 x 3

 $^{^{\}ast}$ 1 Non-standard video format $\,^{\ast}$ 2 Wide dynamic range

FCB-EV7500 / FCB-EV7520 / FCB-EV5500 8-M2 Within a depth of 3 mm (1/8in.) or less from the bottom surface **Bottom** 50 (2) 9-M2 Within a depth of 3 mm (1/8in.) 33.55 (13/8) 29 ±0.1 (13/16) 25 (1) or less from the top surface 8 (11/32) 13.5 (%) 16) 27 ±0.1 (1 1/8) 16 ±0.1 (1/32) 17.55 ±0.1 20 ±0.1 28 ±0.1 (23/32) 12.55 (1/2) (13/16) 37.75 ±0.1 (1/2) 33 ±0.1 (15/16) 89.7 (35/8) Left Right 11.8 (15/32) |-2-M2 Within a depth of 3 mm (1/8in.) or less from the side Digital I/O 73 ±0.1 (2⁷/8) 7.55 (6/16) Analog I/O 48.3 ±0.1 (1¹⁵/16) 82 7 (33/8) 4.3 (3/16) 10 (13/32) 21 ±0.1 (7/32) 46.5° (17/8°) ±0.1 (1/9) (16) 72.9° (27/8°) 25.4 ±0. Ø45.6(113/16) Ø41.7 (111/16) 4-M2 Within a depth of 3 mm (1/8in.) or less from the side Unit: mm (inches)





CN40	1
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Pin No.	Name	Level
1	TXOUT3+	
2	TXOUT3-	
3	TXCLKOUT+	
4	TXCLKOUT-	
5	TXOUT2+	
6	TXOUT2-	
7	TXOUT1+	
8	TXOUT1-	
9	TXOUT0+	
10	TXOUT0-	
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

Pin No.

19

20

21

22

23

24

25 NC

26

27

28

29

30

Name

Single out mode

Reset: Low (GND) Normal: Open (1.8 V)

Single out mode open

Single out mode:

open Single out mode

open Single out mode:

open
Single out mode: open

open Single out mode:

open
Single out mode: open

GND

GND

TXOUT7+

TXOUT7-

TXOUT6+

TXOUT6-

RESET

TXOUT5+

TXOUT5-

TXOUT4+

TXOUT4-

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

CN501

FCB-EV7520, FCB-EV7320

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	NC	
13	GND	
14	NC	
15	GND	
16	NC	
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)

FCB-EV7500, FCB-EV7300, FCD-EV7310, FCB-EV7100, FCB-EV5500, FCB-EV5300

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	

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