SONY



^{*} This brochure is published based on the features and specifications for firmware Version 0310.

Introduction

In response to growing demand for high-quality, high-resolution images, Sony is adding three new 20x optical zoom color models to its FCB-EV Series camera block line-up. These cameras offer excellent picture quality, thanks to the use of Exmor™ CMOS image sensors and high-performance optical zoom lenses. Now Sony's FCB-EV Series covers a range of products from 10x to 30x, HD and Full-HD, and with or without analog video output, allowing you to select the right camera according to your specific and varying needs. All of these cameras inherit a multitude of features from Sony's world-renowned FCB Series including Wide-D*¹, Auto ICR, and Spherical Privacy Zone Masking. These useful features are suitable for an array of applications and designed to satisfy all your needs.

	FCB-EV7500	FCB-EV7300	FCB-EV7310	FCB-EV7100	FCB-EV5500	FCB-EV5300
Imager sensor		1/2.8-typ	oe CMOS		1/3-type CMOS	
Lens	30x	20x		10x	30x	20x
Picture quality		Full HD 1080p	(1920 x 1080)		HD (1280 x 720)	
Minimum	Color: 0.35 lx	Color: 0.1 lx		Color: 0.35 lx	Color: 0.25 lx	Color: 0.05 lx
illumination*	(F1.6, AGC on, 1/30 s)	(F1.6, AGC on, 1/30 s)		(F1.8, AGC on, 1/30 s)	(F1.6, AGC on, 1/30 s)	(F1.6, AGC on, 1/30 s)
Digital zoom	12x (360x with optical zoom)	12x (240x with optical zoom)		12x (120x with optical zoom)	12x (360x with optical zoom)	12x (240x with optical zoom)
Video output (HD)) Digital/A	Analog Digital			'Analog	Digital
Video output (SD)	0			/BS		
Mass	260 g (9.2 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 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)		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.

^{*1} Wide dynamic range.

Features

Capture crisp, clear Full-HD (1080/60p) images*2

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

*2 The FCB-EV5500 and FCB-EV5300 achieve crisp HD 720 picture quality.

Fast, bright lens with rapid 30x optical zoom*3

The FCB-EV7500 and FCB-EV5500 are equipped with a bright F1.6 maximum aperture and 30x optical zoom range. Fast zoom operation (from wide end to tele) is ideal for smooth, rapid transitions from wide area coverage to detailed close-ups in security and surveillance applications.

*3 The FCB-EV7300 and FCB-7310 have 20x and the FCB-EV5300 has 10x optical zoom lenses.

Get a steadier picture with image stabilizer*4

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.

*4 Excludes the FCB-EV7310 and FCB-EV7100.

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.

See more clearly with Visibility Enhancer

Picture quality is enhanced dynamically and adaptively on a pixel-by-pixel basis while continuously adapting to the scene within the given dynamic range.

■ Wide dynamic range

Wide-D image processing technology gives the ability to see clear, detailed images in high-contrast or backlit environments. All models now support an exceptionally wide 130 dB dynamic range, which is activated via VISCA command.*5

*5 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.

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.

Clear vision around the clock with Day/Night

Benefit from optimized picture quality in changing light conditions – a frequent challenge in around-the-clock security operations. In high sensitivity mode the FCB-EV5300 can operate effectively in lighting levels as low as 0.05 lx (ICR off).

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.

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.

One-cable connection for simpler integration

A single cable carries HD video signals plus VISCA communication and the power supply. Integration flexibility is further supported by both 30-pin micro coaxial (digital output) and 24-pin FFC (analog output) interfaces.

■ 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, Color Enhancement); Motion Detection/Alarm; Picture freeze; Temperature readout; Slow AE response; Electronic shutter/ slow shutter; and Title display/Camera mode display (English).

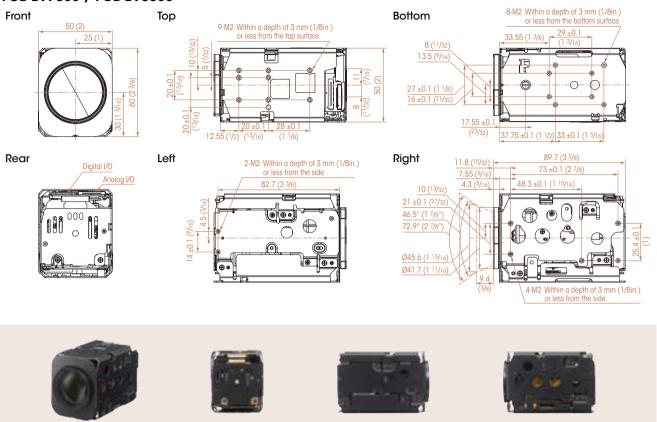
SPECIFICATIONS

J	r	1/2.8-type Exmor CMOS	FCB-EV7300	FCB-EV7310	FCB-EV7100	1/3.0-type Exmor CMOS	FCB-EV5300
Image sensor 1/2.8-type Exmor CMOS Image sensor Approx. 2.38 Megapixels						Approx. 1.37 Megapixels	
Number of e Signal system		1080p/59.94,1080p/50, 1080p/60, 1080p/30, 1080p/29, 97, 1080p/25, 1080i/59.94, 720p/59.94, 720p/50, 720p/60, 720p/30, 720p/29.97, 720p/25, NTSC*1, PAL*1			80i/50, 1080i/60, 1080i/30,	720p/60, 720p/30, 720p/59.94, 720p/50, 720p/29.97, 720p/25, NTSC* ¹ , PAL* ¹	
Minimum Ilumination (50%)	High sensitivity mode	Color: 0.35 lx (F1.6, AGC on, 1/30 s)	Color: 0.1 lx (F1.6, AGC on, 1/30 s)		Color: 0.35 lx (F1.8, AGC on, 1/30 s)	Color: 0.25 lx (F1.6, AGC on, 1/30 s)	Color: 0.05 lx (F1.6, AGC on, 1/30 s)
,	Normal mode	Color: 1.4 lx (F1.6, AGC on, 1/30 s)	Color: 0.4 lx (F1.6, AGC on, 1/30 s)			Color: 1.0 lx (F1.6, AGC on, 1/30 s)	Color: 0.2 lx (F1.6, AGC on, 1/30 s)
5/N ratio	mode	More than 50 dB	(F1.0, AGC 011, 1/30 S)		(F1.8, AGC on, 1/30 s)	(F1.0, AGC 011, 1/30 S)	(F1.0, AGC 011, 1/30 S)
Gain		Auto/Manual (0 step to 28 step, +2 step/fotal 15 steps) Max. Gain Limit (6 step to 28 step, +2 step step/fotal 12 steps)	Auto/Manual (0 step to 28 step (0 dB to 48.8 dB), +2 step/total 15 steps) Max. Gain Limit (6 step to 28 step (17.4 dB to 48.8 dB), +2 step step/total 12 steps)	Auto/Manual (0 step to 28 step (0 dB to 47.8 dB), +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)	Auto/Manual (0 step to 28 st		Auto/Manual (0 step to 28 step (0 dB to 51.9 dB), +2 step/lotal 15 steps) Max. Gain Limit (6 step to 2 step (18.5 dB to 51.9 dB), +2 step step/lotal 12 steps)
Shutter speed Sync system	u	1/1 s to 1/10,000 s, 22 steps Internal					
Exposure con	ntrol		shutter priority & iris priority), Br	right, EV compensation, Slow Al			
Backlight con	·	Yes					
Aperture cont White balanc		16 steps Auto ATW Indoor Outdoor Ou	itdoor Auto Sodium Vanor Lam	p (Fix/Auto/Outdoor Auto), One-	nuch Manual		
Lens	ie –	30x optical zoom f = 4.3 mm (wide) to 129.0 mm (tele) F1.6 to F4.7	20x optical zoom f = 4.7 mm (wide) to 94.0 m F1.6 to F3.5	,	10x optical zoom f = 3.8 mm (wide) to 38 mm (tele) F1.8 to F3.4	30x optical zoom f = 4.3 mm (wide) to 129.0 mm (tele) F1.6 to F4.7	20x optical zoom f = 4.7 mm (wide) to 94.0 mm (tele) F1.6 to F3.5
Digital zoom		12x (360x with optical zoom)	12x (240x with optical zoom)		12x (120x with optical zoom)	12x (360x with optical zoom)	12x (240x with optical zoom)
Focusing syst		Auto (Sensitivity: normal, low), One-push AF, Manual, Interval AF, Zoom Trigger AF, Focus compensation in ICR on					
lorizontal riewing	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)		
angle	720p mode	63.7° (wide end) to 2.3° (tele end)	59.5° (wide end) to 3.3° (tel	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 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 object distance		10 mm (wide end) to 1200 mm (tele end) 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)	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		Yes (120 dB)		No	V (120 dB)		
Wide-D*2 Visibility Enha	nncer	Yes (130 dB) Yes		NO	Yes (130 dB)		
De-fog		Yes					
HLC		Yes					
Noise reducti		Yes (6 steps)					
Progressive s mage stabiliz		Yes No.		No	Yes		
mage orabina		Yes Yes		110			
mage stabiliz mage	zation for still			No		Yes	
mage StableZoom	zation for still	Yes Yes		No		Yes	
mage StableZoom Digital output	zation for still t	Yes Yes Yes		No		Yes	
mage StableZoom	zation for still t	Yes Yes		No		Yes	
mage StableZoom Digital output Spherical priv masking Motion detec	zation for still t vacy zone	Yes Yes Yes Yes Yes Yes		No		Yes	
mage StableZoom Digital output Spherical priv masking Motion detect	t vacy zone	Yes Yes Yes Yes Yes No		No		Yes	
mage StableZoom Digital output Spherical priv masking Motion detec	zation for still t vacy zone tion	Yes Yes Yes Yes Yes No Yes	e, Mirror image, Color enhance			Yes	
mage StableZoom Digital output Spherical priv masking Motion detec Alarm Slow AE respr Picture effects	zation for still t vacy zone tition onse s	Yes Yes Yes Yes Yes No Yes E-Flip, Nega Art, Black & White Yes	s, Mirror image, Color enhancer			Yes	
mage StableZoom Digital output Spherical priv masking Motion detec Alarm Slow AE respo Picture effect: Picture freeze Slow shutter	t toronse s	Yes Yes Yes Yes Yes No Yes E-Flip, Nega Art, Black & White Yes Yes	e, Mirror image, Color enhancer			Yes	
mage StableZoom Digital output Spherical priv masking Motion detec Alarm Slow AE respo Picture effect: Picture freeze Slow shutter Temperature	t toronse s	Yes Yes Yes Yes Yes Yes No Yes E-Flip, Nega Art, Black & White Yes Yes Yes				Yes	
mage StableZoom Digital output Spherical priv masking Motion detec Alarm Slow AE respo Picture effect: Picture freeze Slow shutter	t t vacy zone tition	Yes Yes Yes Yes Yes No Yes E-Flip, Nega Art, Black & White Yes Yes				Ves	
mage StableZoom Digital output Spherical priv masking Motion detec Alarm Slow AE respe Picture effect Picture freeze Slow shutter Temperature Tittle display Camera mod Key switch co	t day on troil	Yes Yes Yes Yes Yes No Yes E-Flip, Nega Art, Black & White Yes Yes Yes Yes Yes Yes No Yes No				Ves	
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mage StableZoom Digital output Spherical priv masking Motion detec Alarm Slow AE respe Picture effect: Picture freeze Slow shutter Temperature Title display Camera mod	toron for still toron	Yes Yes Yes Yes Yes Yes Yes Yes Yes Se-Flip, Nega Art, Black & White Yes Yes 20 characters/line, max. 11 li Yes No No Analog: Component (Y/Ps/Ps) Digital: Y/Cs/Cs 4:2:2 via LVOS (Signal format conforms to SI	nes		Analog: Component (Y/Ps/Pr.		
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mage StableZoom Digital output Sopherical priv masking Motion detec Alarm Slow AE respe Picture effect Picture effect Ficture freeze Slow shutter Iemperature Title display Camera amod Key switch co Camera oper Video putput	total professional	Yes Yes Yes Yes Yes Yes Yes Yes Yes Se-Flip, Nega Art, Black & White Yes Yes Yes 20 characters/line, max. 11 li Yes No No Analog: Component (V/Pe/Pe) Digital: Y/Ca/Ca 4:2:2 via LVDS (Signal format conforms to SI VBS VISCA (CMOS 5 V level) Baud rate: 9.6 Kbps, 19.2 Kbp.	nes	ment N/A	VISCA protocol) Digital:Y/Ca/Ca 4:2:2 via LVD: Signal format conforms to S	S
mage StableZoom Digital output Spherical privantsking Wolfon detect Alarm Slow AE respondictive effect Picture effect Picture freeze Slow shutter Temperature Title display Camera oper Video Doutput Camera cont	t de display sontol ation switch HD	Yes Yes Yes Yes Yes Yes Yes Yes Yes E-Flip, Nega Art, Black & White Yes Yes Yes Yes Yes Yes No No Analog: Component (Y/Px/Px) Digital: Y/Cx/Cx 4:2:2 via LVDS (Signal format conforms to St VBS VISCA (CMOS 5 V level) Boud rate: 9.6 Kbps, 19.2 Kbp 6.0 V to 12.0 V DC	nes S MPTE 274/SMPTE 296.)	ment N/A	VISCA protocol	Digital:Y/Cs/Cr 4:2:2 via LVD (Signal format conforms to S VISCA (CMOS 5 V level)	MPTE 296.) 1.9 W (zoom/focus inactive
mage StableZoom Digital output Sopherical privances Motion detect Alarm Slow AE respe Picture effect Picture freezes Slow shutter Temperature Title display Camera mod Key switch co Camera oper Video putput Camera conti	toron for still toron young triangle to the control of the contro	Yes Yes Yes Yes Yes Yes Yes No No Ses F-Flip, Nega Art, Black & White Yes Yes 20 characters/line, max. 11 li Yes No No Analog: Component (Y/Pa/Pa) Digital: YCa/Ca 4:2:2 via LVDS (Signal format conforms to SI VBS VISCA (CMOS 5 V level) Baud rate: 9.6 Kbps, 19.2 Kbp 6.0 V to 12.0 V DC 2.9 W (zoom/focus inactive) 3.7 W (zoom/focus active) -5°C to +60°C (23°F to 140°)	mes MPTE 274/SMPTE 296.) is, 38.4 Kbps, 115.2 Kbps, Stop 3.0 W (zoom/focus inactive) 3.5 W (zoom/focus active) F)	ment N/A bit: 1 bit 2.4 W (zoom/focus inactive)	VISCA protocol (CMOS 5V level)	Digital:Y/Ce/Cr 4:2:2 via LVD (Signal format conforms to S VISCA (CMOS 5 V level)	MPTE 296.) 1.9 W (zoom/focus inactive
mage StableZoom Digital output Sopherical priv masking Motion detec Alarm Slow AE respe Picture effect: Picture freezes Slow shutter femperature Title display Camera mod Key switch co Camera oper Video Dutput Camera cont	total process of the control of the	Yes Yes Yes Yes Yes Yes Yes Yes Yes Son Yes E-Flip, Nega Art, Black & White Yes Yes 20 characters/line, max. 11 li Yes No No No No Digital: Y/Cs/Cc 4:2:2 via LVDS (Signal format conforms to SI VBS VISCA (CMOS 5 V level) Baud rate: 9.6 Kbps, 19.2 Kbp 6.0 V to 12.0 V DC 2.9 W (zoom/focus active) 3.7 W (zoom/focus active) -5°C to +60°C (23°F to 140° -20°C to +60°C (-4°F to 140°	nes MPTE 274/SMPTE 296.) is, 38.4 Kbps, 115.2 Kbps, Stop 3.0 W (zoom/focus inactive) 3.5 W (zoom/focus active) F)	ment N/A bit: 1 bit 2.4 W (zoom/focus inactive)	VISCA protocol (CMOS 5V level)	Digital:Y/Ce/Cr 4:2:2 via LVD (Signal format conforms to S VISCA (CMOS 5 V level)	MPTE 296.) 1.9 W (zoom/focus inactive
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mage StableZoom Digital output Sopherical privances Motion detect Norm Slow AE respe Picture effect Picture freezes Slow shutter femperature Title display Camera mod (key switch co Camera oper Video Dutput Camera conti	zation for still t vacy zone tion onse s ereadout de display ontrol ation switch HD SD rol interface ements mption mperature midity idity	Yes Yes Yes Yes Yes Yes Yes Yes Yes Son Yes E-Flip, Nega Art, Black & White Yes Yes 20 characters/line, max. 11 li Yes No No No No Digital: Y/Cs/Cc 4:2:2 via LVDS (Signal format conforms to SI VBS VISCA (CMOS 5 V level) Baud rate: 9.6 Kbps, 19.2 Kbp 6.0 V to 12.0 V DC 2.9 W (zoom/focus active) 3.7 W (zoom/focus active) -5°C to +60°C (23°F to 140° -20°C to +60°C (-4°F to 140°	mes MPTE 274/SMPTE 296.) is, 38.4 Kbps, 115.2 Kbps, Stop 3.0 W (zoom/focus inactive) 3.5 W (zoom/focus active) F) ity: 36 g/m³	ment N/A bit: 1 bit 2.4 W (zoom/focus inactive) 2.9 W (zoom/focus active)	VISCA protocol (CMOS 5V level)	Digital:Y/Ce/Cr 4:2:2 via LVD (Signal format conforms to S VISCA (CMOS 5 V level)	MPTE 296.) 1.9 W (zoom/focus inactive

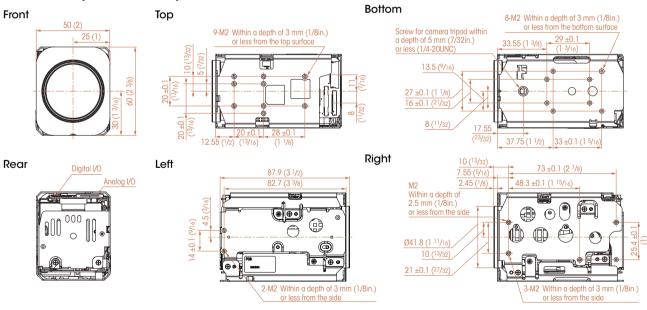
^{*1} Non-standard video format *2 Wide dynamic range

DimensionsUnit: mm (inches)

FCB-EV7500 / FCB-EV5500















FCB-EV7100



Top Bottom

12.4 (1/2) 40.7 (1 5/6)
16.95 (11/16) 40.7 (1 5/6)

16.95 (11/16) 5 5 M2
29.6 (1 3/16) 29.6 (1 3/16) 62.5 ±0.1 (2 1/2)

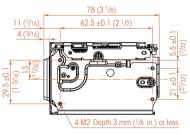
11 (7/16) 62.5 ±0.1 (2 1/2)

12.4 (1/2) 40.7 (1 5/6) 62.5 ±0.1 (2 1/2) 62.5 ±0.1 (2 1/2) 62.5 ±0.1 (2 1/2) 62.5 ±0.1 (2 1/2) 63.5 ±0.1 (2 1/2) 64.5 ±0.1 (2 1/2) 6



Left











Right



Pin No. Name

PIN ASSIGNMENTS

CN401

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

Pin No.	Name	Level
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

CN501

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

Connector: 046240024006800+	(Kyocera-elco)
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1	5	GND	
1	6	Pr-OUT	HD Analog Component
1	7	GND	
1	8	DC IN	6 to 12 V DC
1	9	DC IN	6 to 12 V DC
2	20	DC IN	6 to 12 V DC
2	21	DC IN	6 to 12 V DC
- 2	22	GND	
2	23	DC IN	6 to 12 V DC
	24	GND	

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

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