

FCB-EH6300

High Definition Colour Camera Block Preliminary brochure



IMAGE SENSING SOLUTIONS



FCB-EH6300

Features

- Excellent 1080p (1920 x 1080) HD picture quality
- The "Exmor[™]" CMOS sensor realizes high image quality and high sensitivity
 - High Sensitivity mode 0.5 lx (F1.6, 50IRE, Color)
 - Normal mode 1.7 lx (F1.6, 50IRE, Color)
- Powerful zoom capability
 - 20x optical and total 240x with 12x digital zoom

Various signal systems and output modes

• HD

- Signal system -1080p/29.97, 1080p/25, 1080i/59.94 (Frame out: 29.97 PsF), 1080i/50 (Frame out: 25 PsF), 720p/59.94, 720p/50, 720p/29.97, 720p/25 - Video output - Analog:

Component (Y/Pb/Pr), Digital: Y/ Cb/Cr 4:2:2 via LVDS (Y: 8-bit, C: 8-bit)

- SD
- Signal system NTSC, PAL
- Video output VBS

- Simple connection one cable, one connector
 - Covering video, VISCA communication, and power supply with a single cable

• Supports both 30-pin thin coaxial (digital and analog output) and 24-pin FFC interfaces (analog output only)

Security-oriented functions include:

- Wide-D technology (On, Off, Auto, and Ratio Fix)
- Day/Night function (On, Off, Auto, Threshold Enabled)
- Digital noise reduction (Up to 5 levels)
- Spherical Zone Masking (24 Zones with various PTZ controls)
- Motion Detection Alarm
- (4 Zones with several triggering
- and threshold modes)
- Sodium Vapor Lamp Fix/Auto, One-push, Manu

Featuring full 1920 x 1080 HD resolution, wide-dynamic range, and auto ICR functions, this amazing FCB HD camera is ideal for security, intelligent traffic, unmanned aerial vehicles, video conferencing and low-vision applications.

Incorporating a 1/3-type "Exmor™" CMOS sensor, the FCB-EH6300 camera boasts approximately 2 Megapixels for exceptional HD picture quality with high sensitivity. In addition, the FCB-EH6300 inherits a multitude of features from Sony's world-renowned FCB Series such as Spherical Privacy Zone Masking, E-Flip and various picture effects.



Other Features

Other Features

- Various modes for White Balance (Auto, ATW, Indoor, Outdoor, Outdoor Auto, Sodium Vapor Lamp Fix/Auto, One-push, Manual)
- Picture effects (E-Flip, Nega Art, Black & White, Mirror Image, Colour Enhancement)
- Picture freeze
- Temperature readout
- Slow AE response (Approx. 5 min.)
- Title display (20 characters per line, max. 11 lines)
- Camera mode display (English)
- Electronic shutter/slow shutter
- Spot AE

Dimensions

50 (2)

- High Resolution Mode
- IR Focus Correction Function
- 4 Presets for Gamma Control
- 4 Levels of Chrominance Suppression
- Colour reproduction adjustment

7-M2 Depth 3 mm (1/8)

M2 Depth 2.5 mm (1/8) or les

4-M2 Depth 3 mm (1/8) or less 15 (19

10 (13/3)

87.8 (3 1/2) 48.3±0.1 (1 15/16)

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3-M2 Depth 3 mm (1/8) or less

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7/32) or les:

Tripod Screw, Depth 5 mm (1 (1/4-20LINC)

20 (13/16)

		FCB-EH6300
Image sensor		1/3-type "Exmor" CMOS
Effective number of pixels		Approx. 2 Mega pixels
Lens		20x optical zoom
		f=4.7 mm (wide) to 94.0 mm (tele)
		F1.6 to F3.5
Digital zoom		12x (240x with optical zoom)
Digital 20011		. , ,
Angle of view (H)		1080p/30 mode: 55.4° (wide end) to 2.9° (tele end) 720p/60, 30 mode: 37.6° (wide end) to 1.95° (tele end)
Minimum working distance		10 mm (wide) to 800 mm (tele)
Sync system		Internal
Minimum illumination		High sensitivity mode: 0.5 lx (F1.6, 50 IRE, ICR Off), 0.095 lx (F1.6, 50 IRE, ICR On) Normal mode:
Recommended illumination		100 to 100,000 lux
S/N ratio		More than 50 dB
Signal system	HD	1080p/29.97, 1080p/25, 1080i/59.94 (Frame out: 29.97 PsF), 1080i/50 (Frame out: 25PsF), 720p/59.94, 720p/50, 720p/29.97, 720p/25
	SD	NTSC, PAL
Video output	HD	Analog: Component (Y/Pb/Pr) Digital: Y/Cb/Cr 4:2:2 via LVDS (Y: 8 bit, C: 8 bit)
	SD	VBS: 1.0 Vp-p (sync negative)
Camera control interface		VISCA (TTL signal level) Baud rate: 9.6 Kb/s, 19.2 Kb/s, 38.4 Kb/s
		Stop bit: 1/2 bit selectable
Electronic shutter		1/1 to 1/10,000 s, Total 22 steps
White bal	ance	Auto, ATW, Indoor, Outdoor, Outdoor Auto, Sodium Vapor Lamp Fix/Auto, One-push, Manual
Gain		Auto/Manual (-3 to +28 dB, +2 dB step/Total 16 steps)
AE control		Auto, Manual, Priority mode (shutter priority & iris priority), Bright, EV compensation, Slow AE
Slow AE		Approx. 5 minutes
Focusing system		Auto (Sensitivity: normal, Iow), One-push AF, Manual, Infinity, Interval AF, Zoom Trigger AF
Storage temperature		-20°C to +60°C (-4°F to +140°F)
Operating temperature		-5°C to +60°C (23°F to 140°F)
Storage humidity		20% to 95%
Operating humidity		20% to 80%
Power requirements		6.0 V to 12.0 V DC
Power consumption		To be confirmed
Weight		260 g (4.2 oz)
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) Includes protrusions

8 (11/32)

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CN501 24P

11 (7/16)

CN601 30

8-M2 Depth 3 mm (1/8) or less

Specifications

Pin assignment & connector

CN601 30-pin Thin Coaxial Power supply/Communication/ Analog/Digital

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 0.8 V, High: min 2.0 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	GND	
22	GND	
23	GND	
24	GND	
25	NC	
26	RESET	
27	VBS-OUT	
28	Y	HD Analog Component
29	Pb	HD Analog Component
30	Pr	HD Analog Component

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

CN501 24-pin FFC Power supply/Communication/

Analog Pin No. Name Level GND 1 TxD CMOS 5 V 2 (Low: MAX 0.1 V, Hiah: min 4.4 V) CMOS 5 V 3 RxD (Low: Max 0.8 V, High: min 2.0 V) RESET GND 5 NC 6 GND 8 NC GND 10 VBS-OL 11 GND 12 Y-OU HD Analog Component 13 GND HD Analog 14 Pb-OUT Component 15 GND 16 Pr-OUT HD Analog Component 17 GND 6 to 12 V DC 18 Power 19 Power 6 to 12 V DC 20 Powe 6 to 12 V D(21 Power 6 to 12 V DC 22 GND 6 to 12 V DC 23 Powe GND 24

Unit: mm (inches)

nm (1/8) or les

85.2 (3 3/8)

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Connector: 04 6240 224 006 848+ (KYOCERA ELCO)

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