



Electronic Group, Inc

SONY FCB-H11 HD CAMERA SYSTEM

High Definition Camera, Housing, Interface Board & Custom Cabling
Choice of HD or HDSDI Outputs

2 CHOICES – 1 GREAT CAMERA

Sony, a leader in HD technology, is expanding its block camera family with a new high-definition (HD) color video camera, the FCBH11. Similar to Sony's FCBH10 HD camera, this high performance, high definition camera can expand application solutions by providing high-quality images that only HD can offer!

With its high sensitivity (1.0 lx with ICR-on mode), multi-format video outputs (1080i/720p, and NTSc/PAL) and auto ICR for day/night function, the FCB-H11 is ideal for inspection, security, broadcast, traffic and IP monitoring applications.

The new FCB-H11 color block camera incorporates a 1/3 type HD CMOS image sensor with a 16:9 aspect ratio, and a 120x zoom ratio (10x optical + 12x digital). In addition, the FCBH11 inherits many outstanding features from Sony's previous FCB cameras and couples these with superb HD picture quality.



FCB-H11	
Dimensions	1 7/8" x 1 3/4" x 2 7/8"
Weight	4.2 oz

FCB-H11 w/ Housing & Accessories	
Dimensions	2.183" W x 1.8" H x 3.25" L;
Weight	5.2 oz
Interface Board	Choice of SDI or HD
Cabling	Customized to meet needs

FCBH11 Features

- 1/3 type CMOS imager
- Approx. 2M effective pixels
- 16x9 Aspect Ratio
- Auto ICR for Day/Night function
- Minimum Illumination - 1.0 lx (ICR On Mode - F1.8 50 IRE)
- High-speed serial communication (max. 38.4 kbps)
- TIL signal-level control (VISCA1M protocol)
- 120x optical zoom (10x zoom/12x digital)
- Programmable factory preset
- High Performance Digital Signal Processor (DSP)
- Various customizable settings
- Electronic Shutter/Slow Shutter
- VBS and Y/C video output (SD modes only)
- Picture Freeze Function
- Spot AE
- Internal/External sync
- Small and Compact

Related Products	
Black Magic HD	Extreme Capture Card
IFBEX-232-HD	HD Interface Board
IFBE232-SDI	HD/SDI Interface Board

1.888.687.6877

<http://www.aegis-elec.com>



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SPECIFICATIONS

FCB-H11	
Image sensor	1/3-type CMOS
Effective number of pixels	Approx. 2,000,000 pixels
Aspect ratio	HD 16:9
	SD 4:3/16:9
Lens	10x optical zoom, f=5.1 mm (wide) to 51.0 mm (tele), F1.8 to F2.1
Digital zoom	12x (120x with optical zoom)
Horizontal angle of view	50° (wide) to 5.4° (tele)*
Minimum object distance	10 mm (wide) to 800 mm (tele)
Sync system	Internal
Minimum illumination	ICR off mode : 12 lx (typical) (F1.8, 50 IRE)
	ICR on mode : 1 lx (typical) (F1.8, 50 IRE)
S/N ratio	More than 50 dB
Electronic shutter	1/2 to 1/10,000 s, 21 steps
White balance	Auto, Indoor, Outdoor, One-push, Manual
Gain	Auto/Manual (-3 to 18 dB, 8 steps)
AE control	Auto, Manual, Shutter Priority, Iris Priority, Bright, Spot AE
EV compensation	-10.5 to 10.5 dB (15 steps, 1.5 dB increments)
Backlight compensation	On/Off
Signal system	HD 1080/59.94i, 1080/50i, 720/59.94p, 720/50p
	SD NTSC (Crop/Squeeze), PAL (Crop/Squeeze)
Video output	HD Analog component: Y/Pb/Pr
	SD VBS: 1.0Vp-p (sync negative) Y/C
Focus system	Full Auto (Normal AF/Interval AF/Zoom Trigger AF), One-push Trigger, Manual, Infinity, Near Limit Setting
Picture effects	Nega Art, Black & White, Picture Freeze
Camera operation switch	Zoom tele, Zoom wide
Camera control interface	VISCA (TTL signal level), baud rate: 9.6 Kb/s, 19.2 Kb/s, 38.4 Kb/s, stop bit: 1 bit
Storage temperature	-4 to 140 °F (-20 to 60 °C)
Operating temperature	32 to 81 °F (0 to 45 °C)
Power consumption	6 to 12 V DC/4.8 W
Weight	Approx. 4.2 oz (120 g)
Dimensions (w x h x d)	1 7/8 x 1 3/4 x 2 7/8 inches (47.2 x 43.1 x 72.2 mm)
Supplied accessory	24P FFC (Flat Flexible Cable)

* in HD and SD SQUEEZE output mode

PIN ASSIGNMENT & CONNECTOR

24 P FFC Connector for Camera Control, Analog Video Output, Power

Pin No.	Name	Level
1	GND	
2	TxD	TTL Level (0 V - 5.0 V)
3	RxD	TTL Level (0 V - 5.0 V)
4	RESET-IN	Reset: Low (GND) Normal: Open
5	GND	
6	Y_OUT	Y/C Y_OUT
7	GND	
8	C_OUT	Y/C C_OUT
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	POWER	6.0 V - 12.0 V DC
19	POWER	6.0 V - 12.0 V DC
20	POWER	6.0 V - 12.0 V DC
21	POWER	6.0 V - 12.0 V DC
22	GND	
23	POWER	6.0 V - 12.0 V DC
24	GND	

Connector: KYOCERA ELC0 04 6240 224 006 848+