

*Preliminary*  
**FCB-IX47A/P**  
**Color Camera Module**



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## Key Features

- **18x AF Lens** -- 72x zoom ratio (18x optical, 4x digital)
- **¼ type CCD with Super HAD technology** - LOW Minimum Sensitivity of less than 1.0 lux
- **Newly developed DSP** for improved picture quality when using the digital zoom or slow shutter (compared to previous FCB models)
- **Key Switch control or remote control via RS-232C/TTL signal-level**
- **High-speed serial communication** (max. 38.4 kbps) using VISCA™ protocol
- **Character Generator and Privacy Zone Masking**
- **New Spot AE**
- **Field Memory for still frame capture**
- **Electronic Shutter**
- **Negative/Positive Reversal**
- **Programmable Custom Preset**

## FCB-IX47A/P Specifications

	FCB- IX47A	FCB- IX47AP
Image sensor	1/4 type Super HAD CCD	
Number of effective pixels	768 (H) x 494 (V)	752 (H) x 582 (V)
Horizontal resolution	470 TV lines	460 TV lines
Lens	18x Zoom f = 4.1 to 73.8 mm (F1.4 to F3.0)	
Digital zoom	4x (Optical x Digital = 72x)	
Angle of view (H)	Approx. 48 degree (wide end) Approx. 2.7 degree (tele end)	
Min. object distance	10 mm (wide end), 800 mm (tele end)	
Sync system	Internal	
Min. illumination	Less than 1.0 lux (F1.4, 1/60 shutter)	Less than 1.0 lux (F1.4, 1/50 shutter)
S/N ratio	More than 50 dB	
Back light compensation	ON/OFF	
Electronic shutter	1 sec to 1/10,000 s, 22 steps	1 sec to 1/10,000 s, 22 steps
White balance	Auto, ATW, Indoor, Outdoor, One Push WB, Manual WB	
Gain	Auto/Manual (-3 to 28 dB, 2 dB steps)	
Aperture control	16 steps	
Focusing system	Auto (Sensitivity: H, L), On-Push AF, Manual, Infinity, Interval AF, Zoom Trigger AF	
Switch	Zoom tele, Zoom wide	
Preset	6 positions	
Camera control interface	VISCA Protocol (TTL/RS-232C signal level) Baud rate = 9.6 Kbps, 19.2 Kbps, 38.4 Kbps	
Display	Title, Clock	
Video output	VBS: 1.0 Vp-p (sync negative)/ YC Out	
Storage temperature	-20 C to 60 C	
Operating temperature	0 C to 50 C	
Power consumption	1.5 W (inactive motors) 2.0 W (active motors) / DC 6 to 12 V	
Mass	Approx. 170 g	
Dimensions (W x H x D)	48.2 x 56.6 x 92.3 mm	

Features and specifications are subject to change without notice.



## Connector and Pin Assignment

CN903 --- DC and Video Connector

Pin No.	Name	Level
1	Power In	6V – 12V
2	GND (Power)	
3	NC	
4	Video Out	Composite Video Signal
5	GND (For Video)	
6	Y-Out	
7	GND (For Y)	
8	C-Out	
9	GND (For C)	

CN901 --- Communication connector

Pin No.	Name	Level
1	TxD IN	RS-232C Level
2	NC	
3	NC	
4	RxD IN	RS-232C Level
5	TD	TTL Level
6	NC	
7	NC	
8	RD	TTL Level
9	GND	
10	AF LED OUT	

Type of connector: JST S10B-ZR-SM3A-TF

## CN701 Key switch control connector --- FFC cable

Pin No.	Name
1	GND
2	GND
3	KEY_AD0
4	KEY_AD1
5	KEY_AD2
6	KEY_AD3
7	KEY_AD4
8	KEY_AD5
9	KEY_AD6
10	KEY_AD7
11	NC
12	Strobe

Type of connector: Molex 52689-1240 FFC (0.5mm)

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