SONY

Colour Block Video Cameras FCB-IX Series

Sony's FCB-IX series colour block cameras incorporate high-performance Digital Signal Processing (DSP) and firmware, greatly enhancing their operation and picture quality compared to conventional block cameras. Inheriting the outstanding features of Sony's previous generation of block cameras, Sony's FCB-IX cameras are ideal for numerous applications such as videoconferencing, low vision systems, mobile police cars, pipe inspection, photo booths and document stands.



The FCB-IX47A/IX47AP and FCB-IX45A/IX45AP colour cameras incorporate a 1/4-type Super HAD[™] CCD and feature a 72x zoom ratio (18x optical, 4x digital) and a minimum illumination of 1.0 lx — expanding their vast application appeal. The FCB-IX11A/IX11AP colour cameras incorporate a 1/4-type Exview HAD[™] CCD and feature a 40x zoom ratio (10x optical, 4x digital). With their ultra-compact and lightweight body, this makes them ideal for space restricted applications.

Offering high picture quality and a variety of functions, the FCB-IX series is ideal for your demanding applications.



Features

- High-performance Digital Signal Processing (DSP)
- High-speed serial interface (max. 38.4 Kb/s) with TTL Signal-level control (VISCA™ protocol)
- High-quality image in both digital-zoom and slow-shutter modes (FCB-IX47A/IX47AP, FCB-IX11A/IX11AP)
- Various AF modes including Zoom trigger and interval modes
- Various AE modes including Spot AE mode to optimise the brightness within the specific area
- Expanded mode parameter for shutter speed and gain level
- Superb sensitivity
- Various customisable settings
- Low power consumption (1.5/1.6 W with motors inactive)
- EEPROM backup system without battery
- Lead-free solder and halogen-free printed-circuit boards

Features

FCB-IX47A/IX47AP

- 1/4-type Super HAD[™] CCD
- 72x zoom ratio (18x optical, 4x digital)
- Minimum illumination of 1.0 lx (typical)
- Key switch control compatibility
- Spot AE
- Field Memory/Freeze mode
- High-speed serial interface (maximum 38.4 Kb/s) with TTL signal-level control (VISCA protocol)
- Electronic shutter/slow shutter
- On-screen display (date/time/title)

FCB-IX45A/IX45AP

- 1/4-type Super HAD™ CCD
- 72x zoom ratio (18x optical, 4x digital)
- Minimum illumination of 1.0 lx (typical)
- Key switch control compatibility
- Spot AE
- High-speed serial interface (maximum 38.4 Kb/s) with TTL signal-level control (VISCA protocol)
- On-screen display (date/time/title)

FCB-IX11A/IX11AP

- 1/4-type Exview HAD[™]
 CCD
- Compact and lightweight
- 40x zoom ratio (10x optical, 4x digital)
- Minimum illumination of 1.5 lx (typical)
- Key switch control compatibility
- Spot AE
- Field Memory/Freeze mode
- High-speed serial interface (maximum 38.4 Kb/s) with TTL signal-level control (VISCA protocol)
- Electronic shutter/slow shutter
- On-screen display (date/time/title)

FCB-IX Series - Pin Assignment

CN903

DC and video connector (FCB-IX47A/IX47AP and FCB-IX45A/IX45AP)

Pin No.	Name	Level
1	Power In	6 V – 12 V
2	GND	_
	(power)	
3	NC	_
4	Video Out	Composite
		Video signal
5	GND	_
	(for video)	
6	Y_Out	1.0 ± 0.2 V
7	GND	_
	(for Y signal)	
8	C_Out	_
9	GND	-
	(for C signal)	

Connector type: JST S9B-ZR-SM3A-TF

CN901 IF Board

DC and video connector (FCB-IX11A/IX11AP)

Pin No.	Name	Level
1	Power In	6 V – 12 V
2	GND	_
	(power)	
3	NC	_
4	Video Out	Composite
		Video signal
5	GND	_
	(for video)	
6	Y_Out	_
7	GND	_
	(for Y signal)	
8	C_Out	_
9	GND	-
	(for C signal)	

Connector type: JST S9B-ZR-SM3A-TF

CN751 MC-Board

Communication connector (FCB-IX11A/IX11AP)

Pin No.	Name	Level
1	TxDIN	RS-232C
		Level
2	NC	_
3	NC	_
4	RxDIN	RS-232C
		Level
5	TD	TTL Level
6	NC	_
7	NC	_
8	RD	TTL Level
9	GND	_
10	AF_LED	_

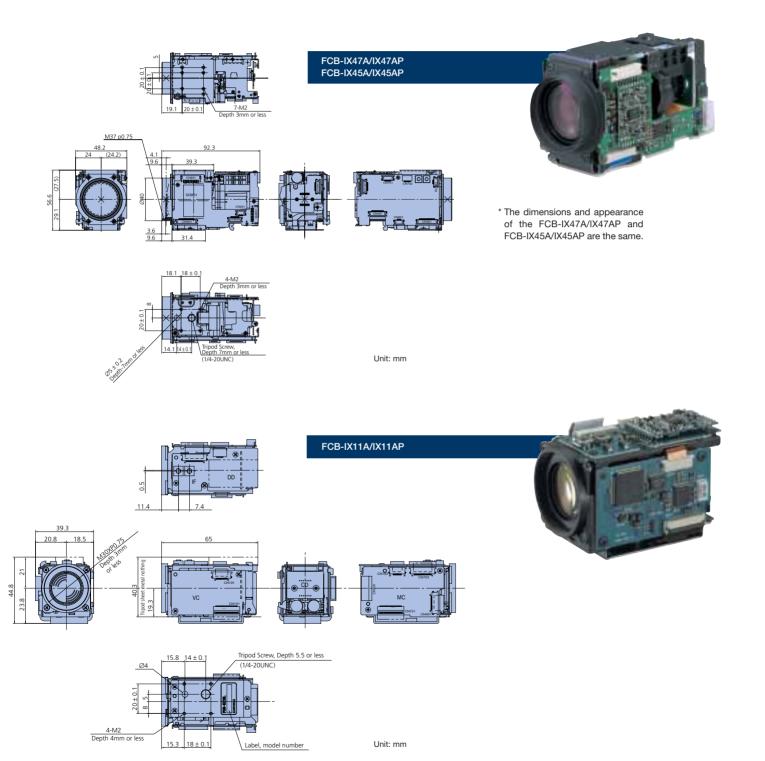
Connector type: JST S10B-ZR-SM3A-TF

CN701

Key switch connector

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

Connector type: Molex 52689-1297 FFC (0.5 mm)



_					•									
S	n	Δ	c	П	t		C	а	t		റ	r	١	e
_	M	v	v	ш	ш	ш	v	u		ш	v	ш		·

	FCB-IX47A	-IX47A FCB-IX47AP FCB-IX45A FCB-IX45AP		FCB-IX11A FCB-IX11AP					
Image device		1/4 type Sup	1/4-type Exview HAD CCD						
Effective picture elements	Approx. 380,000 pixels				Approx. 380,000 pixels	Approx. 440,000 pixels			
Lens			oom,		10x zoom,				
		f = 4.1 mm (wide) F1.4 t	to 73.8 mm (tele), o F3.0	•	f = 4.2 mm (wide) to 42 mm (tele), F1.8 to F2.9				
Digital zoom			optical zoom)		<u> </u>	4x (40x with optical zoom)			
Angle of view (H)			to 2.7° (tele end)		46° (wide end) to 5.0° (tele end)				
Minimum working distance		10 mm (wide end),	800 mm (tele end	d)	10 mm (wide end), 1000 mm (tele end)				
Sync. system			Inte	ernal					
Minimum illumination		1.0 lx (1.5lux ((50IRE)					
S/N ratio									
Electronic shutter		%0,000 s ,	1/60 to 1/10,000 s,	1/50 to 1/10,000 s,	⅓ s to				
	22 s	steps	16 steps	16 steps	22 steps				
White Balance (WB)			ATW, Indoor, Out						
Gain			uto / Manual (-3 to						
AE control	Auto	Auto, Manual, Priority mode, Bright, EV compensation, Back-light compensation -10.5 to +10.5 dB (1.5 dB steps)							
EV compensation		On/Off							
Back-light compensation Flicker cancel			Auto						
Freeze function	Auto YES	_ Auto		Auto YES	YES				
		1.00							
Focusing system Picture effect	Auto (sen	Auto (sensitivity: Normal, Low), One-Push AF, Manual, Infinity Interval AF, Zoom Trigger AF Neg. Art, Black & White, Mirror Image							
Camera operation switch	-			Zoom wide	Е				
Video output		VRS	S: 1.0 Vp-p (Sync.		tnut				
Camera control interface	VISCA (TTI /R				88.4 Kb/s Stop bit	1/2 selectable			
Storage temperature		o zozo digital lovi		(-4 °F to 140 °F)	o. i rib/o otop bit	1/2 00100141010			
Operating temperature				32 °F to 122 °F)					
Power consumption	6	to 12 V DC / 1.5 V			6 to 12 V [OC / 1.6 W			
, , , , , , , , , , , , , , , , , , ,			ive motors)	,,	(inactive motors),				
					2.1 W (acti				
Mass			(6.0 oz)		95 g (3				
Dimensions			x 92.3 mm		39.3 x 44.8 x 65 mm				
(W x H x D)		(1 19/16 x 2 1/4	x 3 ¾ inches)		(1 ⁹ / ₁₆ x 1 ¹³ / ₁₆	x 2 % inches)			

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