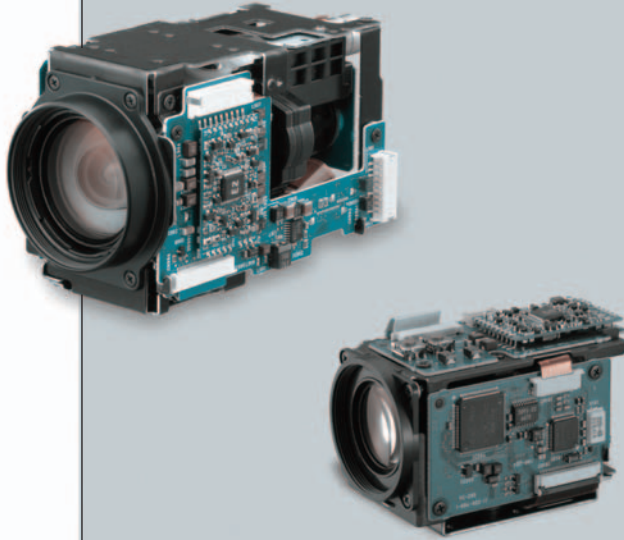


SONY[®]

FCB-IX Series



FCB-IX47C/FCB-IX47CP
FCB-IX45C/FCB-IX45CP
FCB-IX11A/FCB-IX11AP

Color Block Cameras

FEATURES

Sony's High-Performance FCB-IX Color Block Camera Series Combine Superb Picture Quality and Outstanding Sensitivity – Making Them Ideally Suited for Integrated Systems Applications.

Sony's new FCB-IX C color block camera series are equipped with an auto focus integrated lens and incorporate high-performance Digital Signal Processing (DSP) that provides for enhanced picture quality and operability compared to conventional block cameras.

The new FCB-IX47C/IX47CP and FCB-IX45C/IX45CP color block cameras incorporate a 1/4-type Super HAD™ CCD and are equipped with an 18x zoom lens. The FCB-IX47C/IX47CP and FCB-IX45C/IX45CP cameras also feature a minimum illumination of 1.0 lux – expanding their vast appeal.

The ultra-compact FCB-IX11A/IX11AP color cameras incorporate a 1/4-type EXview HAD™ CCD and feature a 40x zoom ratio (10x optical, 4x digital) making them ideal for space restricted applications.

Inheriting the outstanding features of the previous generation of Sony block cameras, these FCB-IX cameras are ideally suited for numerous general purpose applications such as low vision systems, mobile police cars, pipe inspection, photo booths and document stands.

18x Optical Zoom Capability –
FCB-IX47C/IX47CP and FCB-IX45C/IX45CP only

10x Optical Zoom Capability –
FCB-IX11A/IX11AP only

High-Performance Digital Signal Processing (DSP) and Superb Sensitivity

High-Quality Image in Both Digital Zoom and Slow Shutter Modes – FCB-IX47C/IX47CP, FCB-IX11A/IX11AP only

Unique Algorithm for Lens-Life Extension
Autofocus (AF) Algorithm

This unique algorithm controls the camera's auto focus function to provide extended lens life and steady image quality. This technology makes these block cameras ideal for security applications, in which 24/7 continuous usage is required.

Various AF Modes including Zoom Trigger and Interval Modes.

Various AE Modes including Spot AE Mode to Optimize the Brightness within the Specific Area

Electronic-Flip (E-Flip) Function to Capture and Display Images in the Proper Orientation (FCB-IX47C/IX47CP only)

Expanded Mode Parameter for Shutter Speed and Gain Level

High-Speed Serial Interface (max. 38.4 Kb/s) with TTL Signal-Level Control (VISCA™ protocol)

Various Customizable Settings

Low Power Consumption
(1.5/1.6 W when motors are inactive)

EEPROM Backup System without Battery

16-Bytes of Memory is Available for Recording Data such as Product Serial Numbers and Camera/System ID Numbers (FCB-IX47C/IX47CP, FCB-IX45C/IX45CP only)

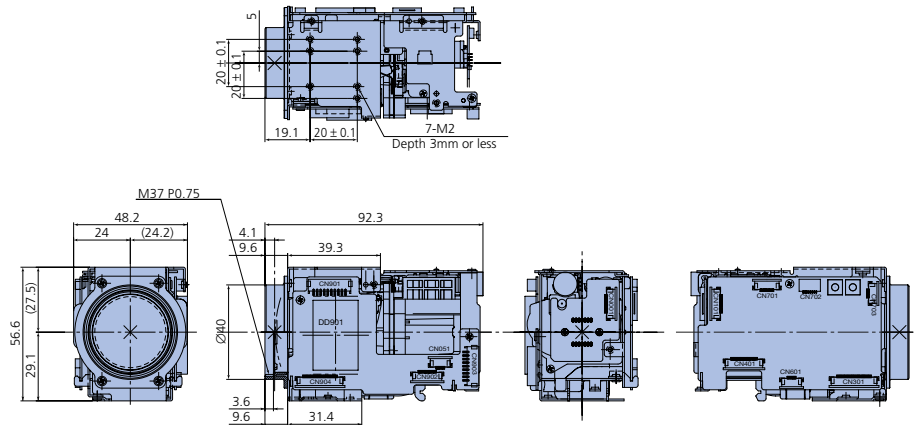
Environmentally-friendly (Lead-free solder and Halogen-free Printed-circuit boards)

FCB-IX SERIES LINE-UP



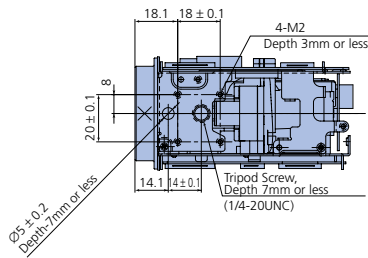
FCB-IX47C/IX47CP

- 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
- E-Flip Function
- Field Memory/Freeze Mode
- High-speed Serial Interface (maximum 38.4 Kb/s) with TTL Signal-Level Control (VISCAs protocol)
- Electronic Shutter/Slow Shutter
- On-screen Display (date/time/title)



FCB-IX45C/IX45CP

- 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 (VISCAs protocol)
- On-screen Display (date/time/title)



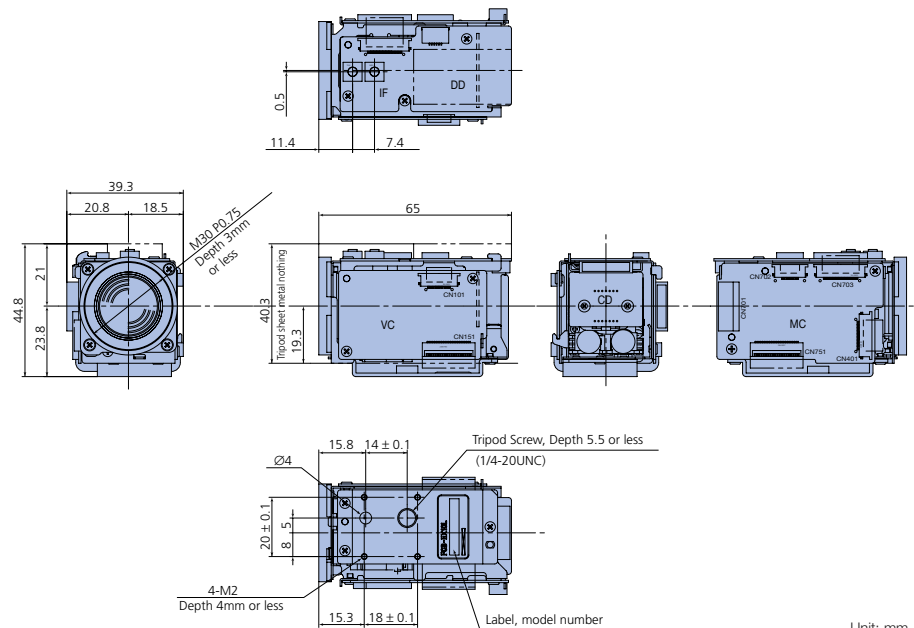
Unit: mm

*The dimensions and appearance of the FCB-IX47C/IX47CP and FCB-IX45C/IX45CP are the same.



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 (VISCAs protocol)
- Electronic Shutter/Slow Shutter
- On-screen Display (date/time/title)



Unit: mm

PIN ASSIGNMENT

CN903

DC and video connector
(FCB-IX47C/IX47CP and FCB-IX45C/IX45CP)

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: 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: JST S9B-ZR-SM3A-TF

CN751/901 MC-Board

Communication connector
(CN751: FCB-IX11A/IX11AP
CN901: FCB-IX47C/IX47CP/IX45C/IX45CP)

Pin No.	Name	Level
1	T x D IN	RS-232C Level
2	NC	–
3	NC	–
4	R x D IN	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

CN601/701

Key switch connector
(CN601: FCB-IX47C/IX47CP/IX45C/IX45CP
CN701: FCB-IX11A/IX11AP)

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)

SPECIFICATIONS

	FCB-IX47C	FCB-IX47CP	FCB-IX45C	FCB-IX45CP	FCB-IX11A	FCB-IX11AP
Image device	1/4-type Super HAD CCD				1/4-type Exview HAD CCD	
Effective picture elements	Approx. 380,000 pixels	Approx. 440,000 pixels	Approx. 380,000 pixels	Approx. 440,000 pixels	Approx. 380,000 pixels	Approx. 440,000 pixels
Lens	18x zoom, f=4.1 mm (wide) to 73.8 mm (tele), F1.4 to F3.0f=4.2 mm (wide) to 42 mm (tele), F1.8 to F2.9				10x zoom,	
Digital zoom	4x (72x with optical zoom)				4x (40x with optical zoom)	
Viewing angle (H)	48° (wide end) to 2.8° (tele end)				46° (wide end) to 5.0° (tele end)	
Minimum working distance	10 mm (wide end), 800 mm (tele end)				10 mm (wide end), 1000 mm (tele end)	
Sync system	Internal					
Minimum illumination	1.0 lx (50 IRE)				1.5 lx (50 IRE)	
S/N ratio	More than 50 dB					
Electronic shutter	1/1 to 1/10,000 s 22 steps		1/60 to 1/10,000 s 16 steps		1/50 to 1/10,000 s 16 steps 22 steps	
White balance	Auto, ATW, Indoor, Outdoor, One-Push, Manual					
Gain	Auto/Manual (-3 to 28 dB, 2 dB steps)					
AE control	Auto, Manual, Priority mode, Bright, EV compensation, Backlight compensation					
EV compensation	-10.5 to +10.5 dB (1.5 dB steps)					
Backlight compensation	On/Off					
Flicker cancel	Auto	–	Auto	–	Auto	–
Focusing system	Auto (Sensitivity: normal, low), One-Push AF, Manual, Infinity, Interval AF, Zoom Trigger AF					
Picture effect	Neg. Art, Black & White, Mirror Image, E-Flip				Neg. Art, Black & White, Mirror Image	
Camera operation switch	Zoom tele, Zoom wide					
Video output	VBS: 1.0 Vp-p (sync negative), Y/C Output					
Camera control interface	VISCA (TTL/RS-232C signal level), baud rate: 9.6 Kb/s, 19.2 Kb/s, 38.4 Kb/s, Stop bit: 1/2 selectable					
Storage temperature	-4 to 140 °F (-20 to 60 °C)					
Operating temperature	32 to 122 °F (0 to 50 °C)					
Power consumption	6 to 12 V DC/1.5 W (motors inactive) 2.0 W (motors active)				6 to 12 V DC/1.6 W (motors inactive) 2.1 W (motors active)	
Weight	6.0 oz (170 g)				3.4 oz (95 g)	
Dimensions (W x H x D)	1 15/16 x 2 1/4 x 3 3/4 inches (48.2 x 56.6 x 92.3 mm)				1 9/16 x 1 13/16 x 2 5/8 inches (39.3 x 44.8 x 65 mm)	

SONY

Sony Electronics Inc.
1 Sony Drive
Park Ridge, NJ 07656
201-930-7000
www.sony.com/videocameras

IS-1195
MK10308V1

© 2005 Sony Electronics Inc. All rights reserved.
Reproduction in whole or in part without written permission is prohibited.
Design, features and specifications are subject to change without notice.
All non-metric weights and measures are approximate.
Sony, Super HAD, EXview HAD, and VISCA are trademarks of Sony.

Printed in USA (11/05)