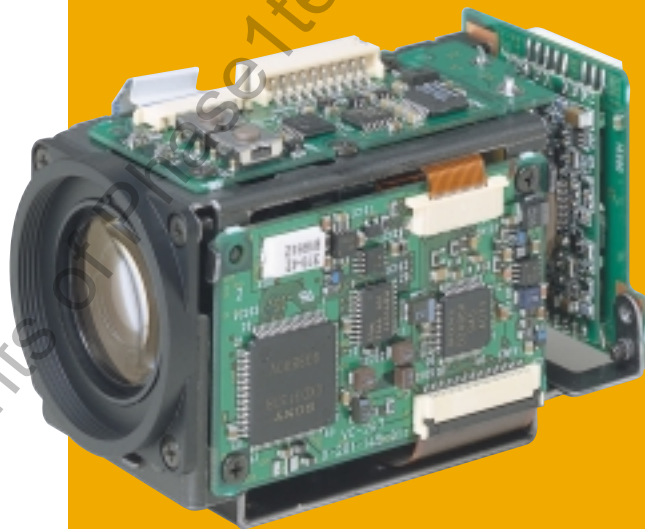


The FCB-IX10/P and the FCB-EX10L/P are compact and lightweight color video camera modules that incorporate a 380,000/440,000 pixel 1/4 type CCD and a 10x optical zoom lens. The FCB-IX10/P and the FCB-EX10L/P are less than half the volume and mass of the FCB-47 series, making it ideal for space restricted applications such as pipe inspection and document stands. Both models feature a built-in field memory allowing for slow shutter speed operation, and has a position preset function to save and recall up to six camera settings. Camera settings and control can also be made from a host computer/controller via VISCA™/RS-232C. In addition to the standard RS-232C, a TTL direct signal interface is provided as an alternative control mechanism. The FCB-EX10L/P is an enhanced version of the FCB-IX10/P as it incorporates an external vertical synchronisation function.

"VISCA" is an acronym of Video System Control Architecture. It is a communication protocol designed to interface a wide variety of video equipment to a computer.
"VISCA™" is a trademark of Sony Corporation.

FCB-IX10 FCB-IX10P FCB-EX10L FCB-EX10LP



Component/OEM

- Super HAD technology and 10x optical zoom lens
- Compact and lightweight:
38 (W) x 44 (H) x 73 (D) mm, approx. 100 g
- 4x digital zoom
- Built-in field memory
- Slow shutter (long time exposure)
- Backlight compensation
- Exposure compensation
- Zoom/focus quick adjustment function
- Auto focus/One push auto focus
- VISCA/RS-232C and TTL signal level control (9600 bps)
- Mirror image, image memory freeze
- Picture effects (negative/positive, monochrome...)
- Digital effects
- Preset function
- Built-in camera ID
- On screen/Date and time display
- 6 months memory backup
- External vertical synchronisation (FCB-EX10L/P only)

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- Please refer to the "RS-232C Command List" when controlling the camera via RS-232C or TTL. The following functions can be selected and adjusted.

Zoom	: Zoom Control 16384 steps	Back Light	: Back Light Compensation
Zoom Speed	: Zoom Speed Control 8 steps	LR Reverse	: Mirror Image
Digital Zoom	: Digital Zoom Control 12288 steps	Freeze	: Still Image on Field Memory
Focus	: Focus Control (AF, Manual, One Push) 45056 steps	Memory	: Preset 6 settings
Focus Speed	: Focus Speed Control 8 steps	Display	: On Screen Data (Day and or Time) ON/OFF
AE Mode	: Auto Exposure Mode 9 modes	Key Lock	: Key Lock ON/OFF
WB Mode	: White Balance Mode 6 modes	ID Write	: Camera ID (0 to 65535)
Aperture	: Aperture Control 16 steps	Power	: Camera Power ON/OFF

• Picture Effects

Pastel	: Pastel Image
Neg.Art	: Negative/Positive Reversal
Sepia	: Sepia Image
Black White	: Monochrome Image
Solarize	: Enhanced Contrast
Mosaic	: Mosaic Image
Slim	: Vertical Stretch
Stretch	: Horizontal Stretch

• Digital Effects

Still	: Motion Image superimposed on Still Image
Flash	: Continuous Still Image
Lumi	: Motion Images superimposed on Binaried Still Image
Trail	: After-image Lag of Moving Object

• AE MODE

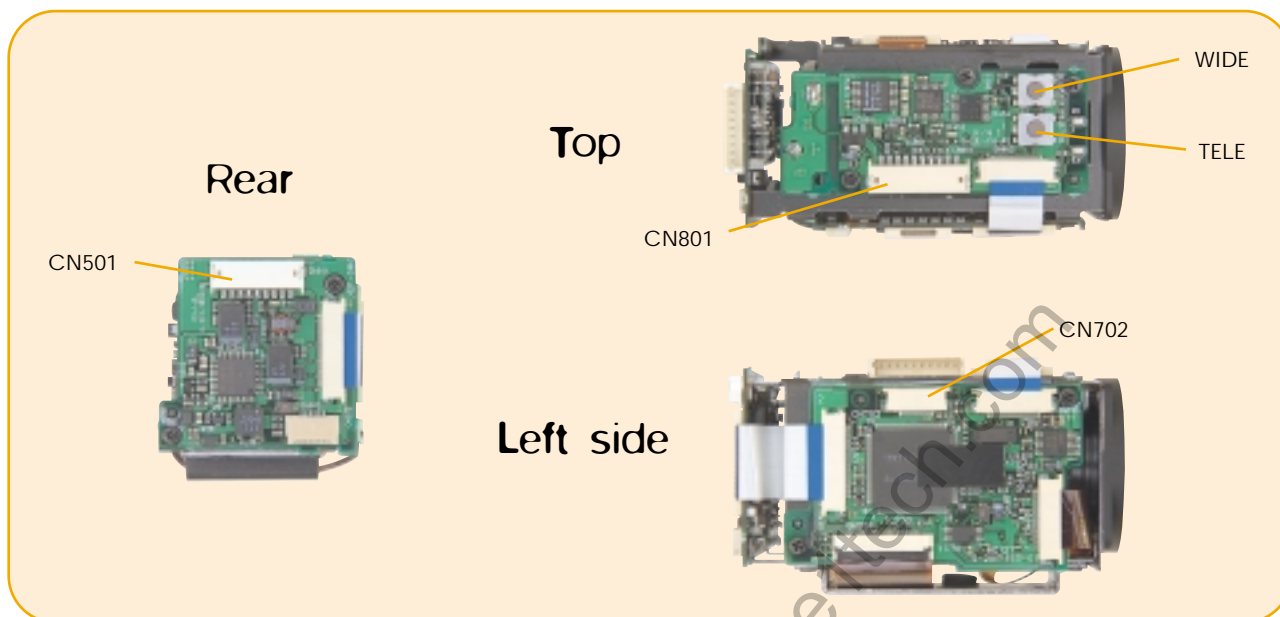
Full Auto	: Auto Iris and Gain, Fixed Shutter
Shutter Priority	: Variable Shutter Speed (1/4 or 1/3 to 1/10000 sec., 20 steps)
Iris Priority	: Variable Iris (F1.8 to Close, 18 steps), Auto Gain and Shutter
Gain Priority	: Variable Gain (-3 dB to 18 dB, 8 steps), Auto Iris and Fixed Shutter
Manual	: Variable Shutter, Iris and Gain
Bright	: Variable linked Iris and Gain (Closed to F1.8, 18 steps at 0 dB; F1.8, 7 steps from 0 to 18 dB)
Shutter Auto	: Variable Iris and Gain
Iris Auto	: Variable Gain and Shutter
Gain Auto	: Variable Iris and Shutter
Exposure Comp	: Gain Compensation (-10.5 to +10.5 dB, 15 steps at 1.5 dB)

• WB MODE

ATW	: Auto Tracing White Balance (2000 to 10000K)
Auto	: ATW with limiters on R and B gain (3000 to 7500K) to avoid fixing "white" with single scenes
Indoor	: 3200K
Outdoor	: 5800K
One Push WB	: One Push White Balance
Manual WB	: Manual Control of R and B gain, 256 steps



- When the FCB-IX10/P or FCB-EX10L/P is not being controlled by RS-232C, zoom can be manually adjusted via pushbuttons on the camera.
- Connector location



• Pin Assignment

CN501 (Power In/Video Out)

Pin No.	Input/Output signal
1	DC IN
2	GND
3	N.C./V Lock pulse
4	VBS OUT
5	VBS GND
6	Y OUT
7	Y GND
8	C OUT
9	C GND

Connector : S9B-ZR-SM3A-TF (JST)

CN801 (RS-232C)

Pin No.	Input/Output signal
1	TXD (232C)
2	DTR (232C)
3	DSR (232C)
4	RXD (232C)
5	TXD (TTL)
6	DTR (TTL)
7	DSR (TTL)
8	RXD (TTL)
9	GND
10	AF ON LED

Connector : S9B-ZR-SM3A-TF (JST)

CN702 (External Control)

Pin No.	Input/Output signal
1	GND
2	GND
3	KEY AD 0
4	KEY AD 1
5	KEY AD 2
6	KEY AD 3
7	KEY AD 4
8	KEY AD 5
9	KEY AD 6
10	AF ON LED
11	N. C.
12	N. C.

Connector : 52689-1293 (Molex)

• Supplied Accessories

Cables (x3)

Power In / Video Out (CN501) :
Housing ZHR-9 (JST), Contacts SZH-002T-P0.5 (JST)

RS-232C In / Out (CN801) :
Housing ZHR-10 (JST), Contacts SZH-002T-P0.5 (JST)

External Control (CN702) :
Cable FCC (0.5 mm pitch)

