

FCB-EX Series E Version

FCB-EX1020(NTSC) (NEW)

FCB-EX1020P(PAL) (NEW)



Outline

The FCB-EX1020/EX1020P incorporates a 36x optical zoom lens. All camera settings can be performed by VISCA protocol at high communication speeds up to 38.4 kb/s. The FCB-EX1020/EX1020P uses standard digital output with newly added functions such as progressive scanning and Wide-D (wide dynamic range) to achieve multi-functionality. Not restricted to analog cameras, but also to digital cameras, this color camera module can easily adapt to a wide range of applications.

x36 Optical zoom lens Auto Focus Zoom
f=3.4 mm (wide) to 122.4 mm (tele), F1.6 to F4.5

Features

- Progressive Scan
- Digital output (comparable to ITU-R BT656)
- Image Stabilizer: StableZoom™
- Wide-D Function (Auto Wide-D)
- High resolution Image: 550TV lines
- 3D Noise Reduction (3DNR + 2DNR)
- Color Enhancement function
- VISCA protocol (CMOS 5V level) interface
- Advanced Spherical Privacy Zone Masking
- Slow AE Response Function
- Auto ICR (Auto Focus)
- Extended Operation Temperature: -5°C to +60°C
- Temperature Readout
The camera unit's internal temperature can be read out via VISCA. This data can be used as reference data to activate peripherals such as a fan or heater inside the camera equipment.
- White Balance
 - Outdoor Auto mode
 - Sodium Vapor Lamp mode

Specifications

	FCB-EX1020	FCB-EX1020P
Image sensor	1/4-type EXview HAD CCD	
Signal output	NTSC	PAL
Effective Number of Pixels	Approx. 380,000 pixels	Approx. 440,000 pixels
Video output	Y/Cb/Cr 4:2:2 (comparable to ITU-R BT656)	
	VBS: 1.0 Vp-p (sync negative), Y/C output	
Horizontal resolution	550 TV line	
Lens	36x optical zoom, f=3.4 mm (wide) to 122.4 mm (tele), F1.6 to F4.5	
Digital zoom	12x (432x with optical zoom)	
Zoom movement speed		
Optical wide to Optical tele	4.0 sec (Focus Tracking ON)	
	2.7 sec (Focus Tracking OFF)	
	6.0 sec	6.2 sec
Optical wide to Digital tele	6.0 sec	6.2 sec
Digital wide to Digital tele	2.1 sec	2.3 sec
Focus movement speed	∞ to Near: 1.0 sec	
Horizontal angle of view	57.8 degrees (wide) to 1.7 degrees (tele)	
Minimum object distance	320 mm (wide) to 1500 mm (tele)	
Sync system	Internal/External (V-Lock)	
Camera control interface	VISCA (CMOS 5V level) Baud Rate: 9.6 kbps, 19.2 kbps, 38.4 kbps, 1 or 2 stop-bit selectable	
Minimum illumination (Typical)	1.4 lx (F1.6, 50IRE)	
S/N ratio	More than 50 dB	
Gain	Auto / Manual (-3 dB to +28 dB, 2 dB 16 steps)	
Electronic shutter	1/1 sec to 1/10,000 sec, 22 steps	
Operating temperature/humidity	-5°C to +60°C/20% to 80%	
Storage temperature/humidity	-20°C to +60°C/20% to 95%	
Power requirements	6.0 V to 12.0 V DC	
Power consumption	2.7 W (motors inactive: 5.1 W)	
Mass	230 g	
Dimensions (W × H × D)	50.0 × 57.5 × 87.9 mm	

The values for mass and dimension are approximate.

* "VISCA" is a trademark of Sony Corporation
"EXview HAD CCD" is a trademark of Sony Corporation

XCG
XCD
XCL

XCI

XC (Non-TV Format)
XC (TV Format)

Accessories

Color Camera Module
FCB

Color PTZ Camera
EW