FCB-EX1000
FCB-EX1000P

Color Block Camera

SONY

Block Cameras

Sony's FCB-EX1000/EX1000P color block cameras combine an incredibly powerful 36x zoom lens with a wide/telephoto horizontal field of view, ideally suited for use in security domes and traffic monitoring applications.

The FCB-EX1000/EX1000P incorporates a high-sensitivity 1/4-type EXview HAD™ CCD, which allows images to be captured at a minimum illumination as low as 0.1 lx.[*1] *With a newly developed slow AE response function, the camera can adapt to abrupt changes in light while capturing fine image details. In addition, the FCB-EX1000/EX1000P cameras are equipped with a variety of convenient features such as spherical privacy zone masking, Electronic-Flip, Picture Freeze, and Auto IR-Cut Filter Removal, all of which have been inherited from Sony's current FCB-EX Camera Series.*

[*1] When the shutter speed is set to 1/4 s.

FEATURES

- 1/4-type EXview HAD CCD
- FCB-EX1000: 380,000 pixels (NTSC)
- FCB-EX1000P: 440,000 pixels (PAL)
- Minimum Illumination
  - 1/60 s shutter speed: 1.4 lx (typical) (F1.6, 50 IRE)
  - 1/4 s shutter speed: 0.1 lx (typical) (F1.6, 50 IRE)
- 36x Optical Auto Focus Zoom Lens
  - f = 3.4 mm (wide) to 122.4 mm (tele)
  - F1.6 to F4.5
  - Angle of view (H): 57.8° (wide) to 1.7° (tele)
  - 432x Zoom Ratio (36x optical, 12x digital)
- Slow AE Response Function*2

The FCB-EX1000/EX1000P are equipped with a Slow AE response function to automatically slow the rate at which camera exposure levels change. This rate can be set up to 32 times slower than when Full-Auto AE or Priority (shutter/iris) modes are selected.[*3] The Slow AE response function is useful when monitoring areas in which lighting conditions change abruptly. For example, if the camera is used to monitor the flow of nighttime traffic when vehicle headlights are pointed directly towards it, the camera's exposure level is reduced slowly. This can allow users to monitor and identify crucial parts of the image that surround the headlights, such as the car's license plate or the driver's face.

[*2] This function can be set using VISCA™ protocol.

[*3] The rate at which camera exposure levels are adjusted when in Full-Auto AE or Priority modes is just under one second.

- Auto IR Cut Filter Removal (ICR)

For optimized sensitivity in both day and night shooting applications, these cameras incorporate an Auto ICR function. At a set level of darkness, the IR Cut filter is automatically disabled (ICR ON) and the infrared sensitivity is increased. Conversely, at a set level of brightness, the filter is automatically enabled (ICR OFF). The ICR function will automatically engage itself depending on the level of ambient light, so that the camera can be effective in a variety of lighting conditions.

- Spherical Privacy Zone Masking

Unwanted or prohibited areas within an image can be masked precisely and appropriately. If the FCB-EX1000/EX1000P cameras are integrated into a Pan/Tilt/Zoom (PTZ) camera system, this technology can keep masking areas interlocked with PTZ movements regardless of the camera angle.

- High-Speed Serial Interface (max. 38.4 kb/s) and TTL Signal-Level Control (VISCA protocol)

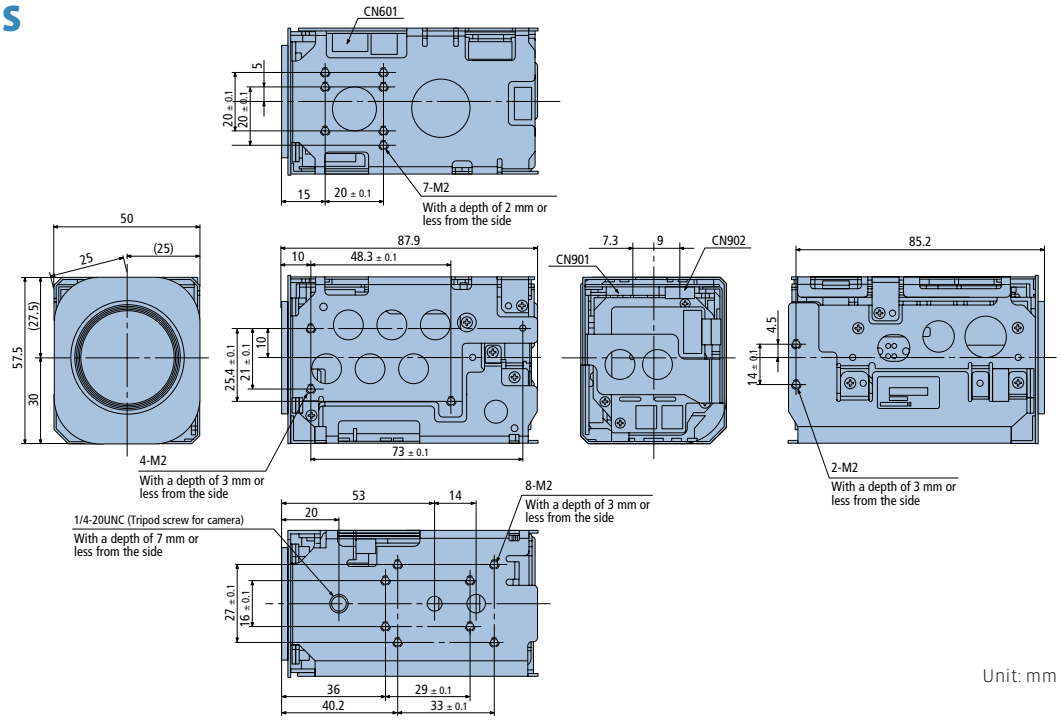
Other Features

- Electronic-Flip (E-Flip) Function
- Alarm Function
- Picture Freeze Function
- SPOT AE Function
- Electronic Shutter/Slow Shutter
- Internal/External Sync

SPECIFICATIONS

	FCB-EX1000	FCB-EX1000P
Image sensor	1/4-type EXview HAD CCD	
Signal system	NTSC	PAL
Number of total pixels	Approx. 380,000 pixels	Approx. 440,000 pixels
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)	
Angle of view (H)	57.8° (wide end) to 1.7° (tele end)	
Minimum working distance	320 mm (wide end) to 1,500 mm (tele end)	
Sync system	Internal / External (V-lock)	
Minimum illumination	1/60 s mode: 1.4 lx (typical) (F1.6, 50 IRE) 1/4 s mode: 0.1 lx (typical) (F1.6, 50 IRE)	
S/N ratio	More than 50 dB	
Electronic shutter	1/1 to 1/10,000 s, 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, Slow AE	
EV compensation	-10.5 to 10.5 dB (1.5 dB steps)	
Backlight compensation	On / Off	
Privacy zone masking	On / Off (24 positions)	
Flicker cancel	Auto	–
Focusing system	Auto (Sensitivity: normal, low), One-push AF, Manual, Infinity, Interval AF, Zoom trigger AF	
Picture effects	E-Flip, Nega Art, Black & White, Mirror Image	
Camera operation switch	Zoom tele, Zoom wide	
Video output	VBS: 1.0 Vp-p (sync negative), Y/C	
Camera control interface	VISCA (TTL signal level), baud rate: 9.6 Kb/s, 19.2 Kb/s, 38.4 Kb/s, 1 or 2 Stop bit 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/1.6 W (motors inactive), 4.0 W (motors active)	
Weight	8.1 oz (230 g)	
Dimensions (W x H x D)	2 x 2 3/8 x 3 1/2 inches (50.0 x 57.5 x 87.9 mm)	

DIMENSIONS



Unit: mm

SONY

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

image is everything™

IS-1151
MK10357V1

Printed in USA 7/06