3GSDI

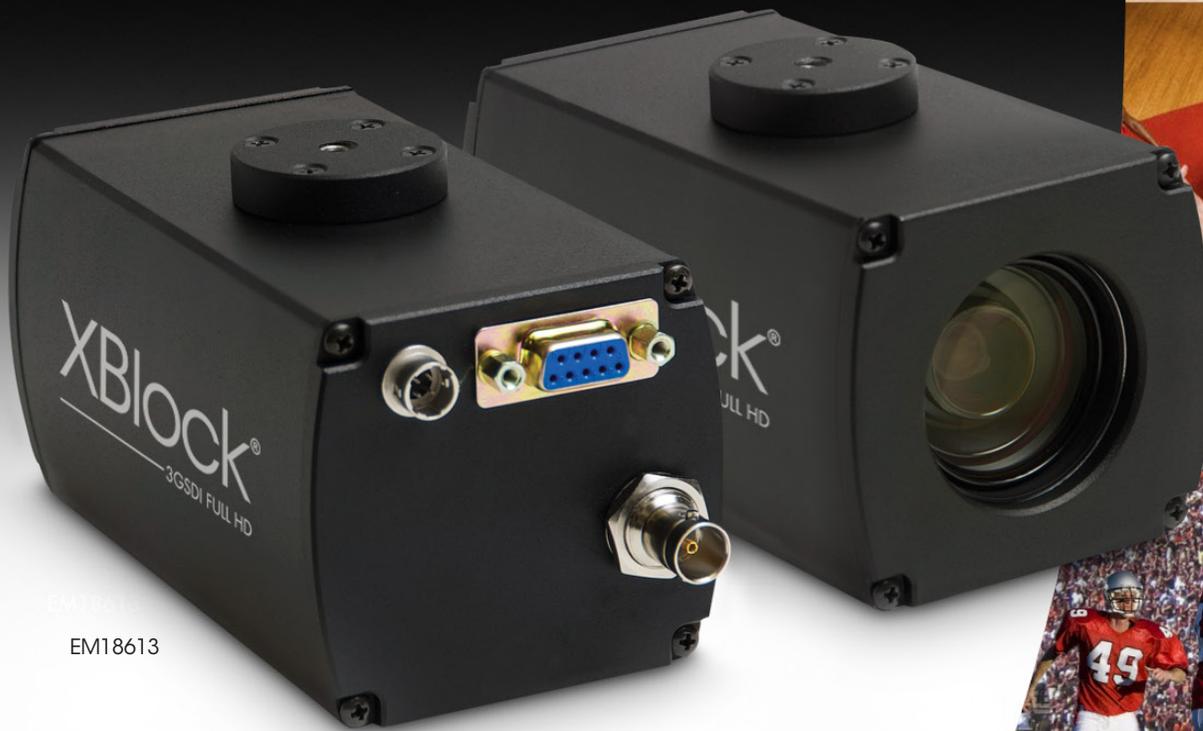## Innovative POV

Capture the Moment in Full HD

- Full HD 1920 x 1080
- 30x zoom with enhanced StableZoom™ technology
- Progressive scan
- Built-in image stabilizer
- 1/2.8" Exmor™ CMOS image sensor
- Low noise images
- Matte black powder coat finish with 1/4 - 20 mount
- Lightweight and compact, 2.56" x 2.77" x 4.94"

EM18613

The iShot® XBlock® 3GSDI POV indoor camera with integrated Sony® FCB-EV7500 block camera uses a 1/2.8" Exmor CMOS image sensor (approx. 2.14 Million effective pixels) that supports FULL HD (high definition) to produce high-quality images. Using progressive scan, images with a wide dynamic range can be obtained with the newly developed image signal processor (Wide Dynamic Range mode). Low-noise images can be obtained even in low-light environments using the Noise Reduction function.

The iShot® XBlock® EV7500 camera is equipped with a bright zoom lens with 30× optical zoom and F1.6 aperture (optical zoom + digital zoom = 360×).

iShot®
XBlock®
CAMERA INTEGRATION SOLUTIONS

3GSDI FULL HD CAMERA

SPECIFICATIONS

Capture crisp, clear Full HD (1080/60p) Images

The high-performance 1/2.8-type Exmor™ CMOS image sensor achieves superb Full HD (1920 x 1080) picture quality, even in low-light environments. **Progressive scanning** assures smoother pictures with reduced blur – ideal for capturing the detail in moving images.

Fast, bright lens with rapid 30x optical zoom

The high quality lens offers a bright F1.6 maximum aperture and 30x optical zoom range. Fast zoom operation (from wide end to tele) is ideal for smooth, rapid transitions from wide area coverage to detailed close-ups in security and surveillance applications.

Get a steadier picture with image stabilizer

The camera's built-in image stabilizer function counters the effects of blurred, shaky images caused by low-frequency vibration. It's useful for outdoor surveillance and traffic monitoring applications where the camera may be subject to wind or mechanical vibration such as on a bridge or mounting pole.

StableZoom™

Image stabilizer and optical/digital zoom are combined to enhance picture quality while maintaining the original horizontal angle of view, ensuring no compromise in image size and reduced blurring.

2D/3D Noise Reduction

Advanced noise reduction technology filters noise from the image for clearer results, especially in low light conditions. Noise reduction can be selected from five levels to suit a wide range of operating environments.

Visibility Enhancer & De-fog

Picture quality is enhanced dynamically and adaptively on a pixel-by-pixel basis while continuously adapting to the scene within the given dynamic range. There's also a de-fog feature that allows clearer viewing in foggy or misty scenes.
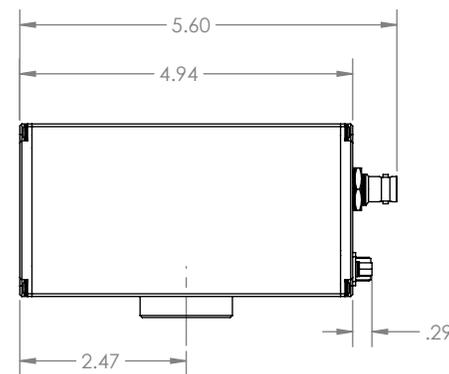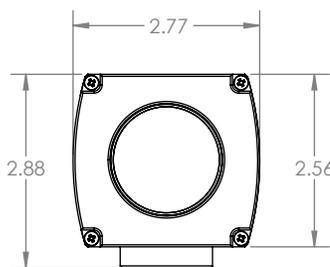
Wide Dynamic Range

Wide-D image processing technology gives the ability to see clear detailed images in high contrast or backlit environments.

Rugged, Indoor Housing

Extruded aluminum (6063 alloy) housing with black powder coat finish and 1/4-20 mount.

Image sensor		1/2.8-type Exmor CMOS
Image sensor (Number of effective pixels)		Approx. 2.38 Megapixels
Signal system		1080p/59.94, 1080p/50, 1080p/29.97, 1080p/25, 1080i/59.94, 1080i/50, 720p/59.94, 720p/50, 720p/29.97, 720p/25, NTSC* [1], PAL*[1]
Minimum illumination (50%)	High sensitivity mode	Color: 0.35 lx (F1.6, AGC on, 1/30 s)
	Normal mode	Color: 1.4 lx (F1.6, AGC on, 1/30 s)
Recommended illumination		100 lx to 100,000 lx
S/N ratio		More than 50 dB
Gain		Auto/Manual (0 step to 28 step, +2 step/total 15 steps) Max. Gain Limit (6 step to 28step, +2 step/total 12 steps)
Shutter speed		1/1 s to 1/10,000 s, 22 steps
Sync system		Internal
Exposure control		Auto, Manual, Priority mode (shutter priority & iris priority), Bright, EV compensation, Slow AE
Backlight compensation		Yes
Aperture control		16 steps
White balance		Auto, ATW, Indoor, Outdoor, Outdoor Auto, Sodium Vapor Lamp (Fix/Auto/Outdoor Auto), One-push, Manual
Lens		30x optical zoom f=4.3 mm (wide) to 129.0 mm (tele) F1.6 to F4.7
Digital zoom		12x (360x with optical zoom)
Focusing system		Auto (Sensitivity: normal, low), One-push AF, Manual, Interval AF, Zoom Trigger AF, Focus compensation in ICR on
Horizontal viewing angle		63.7° (wide end) to 2.3° (tele end)
Minimum object distance		10 mm (wide end) to 1200 mm (tele end) (Default: 300 mm)
Auto ICR		Yes
Wide-Dynamic Range		Yes
Visibility enhancer		Yes
Noise reduction		Yes (6 steps)
Progressive scan mode		Yes
Image stabilizer		Yes
StableZoom		Yes
Digital output		Yes
Spherical privacy zone masking		Yes
Motion detection		Yes
Alarm		No
Slow AE response		Yes
Picture effects		E-Flip, Nega Art, Black & White, Mirror image, Color enhancement
Picture freeze		Yes
Slow shutter		Yes
Temperature readout		Yes
Title display		20 characters/line, max. 11 lines
Camera mode display		Yes
Key switch control		No
Camera operation switch		No
Video output	HD 3GSDI	Analog: Component (Y/P ʙ/Pʀ) Digital: Y/Cʙ/Cʀ 4:2:2 via LVDS (Signal format conforms to SMPTE 274/SMPTE 296.)
	SD	VBS
Camera control interface		VISCA (CMOS 5 V level) Baud rate: 9.6 Kbps, 19.2 Kbps, 38.4 Kbps, 115.2 Kbps, Stop bit: 1 bit
Power requirements		6.0 V to 12.0 V DC
Power consumption		2.9 W (zoom/focus inactive) 3.7 W (zoom/focus active)
Operating temperature		-5°C to +60°C (23°F to 140°F)
Housing Material		Machined Aluminum (6030 alloy) with a matte black powder finish
Mount		1/4 - 20 mount, puck style
Environmental Resistance		IP-40 Rating, Indoor, Controlled Environment
Dimensions (H x W x D)		2.56 x 2.77 x 4.94 inches, 65 x 70.4 x 125.5 mm (housing only) 2.88 x 2.77 x 5.6 inches, 73.2 x 70.4 x 142.2 mm (housing with connectors and mounting puck)
Weight		635g