

## Key Features

- Discreet light switch camera designed for outstanding facial capture surveillance
- Excellent complement to overview cameras, delivering evidentiary video for identification
- Performance optics including Extreme's MX4 mechanical filter LXR CCD for vivid color and exceptional response to infrared
- Pan-tilt adjustable chassis enables easy CCD and lens positioning to accommodate different applications
- Fits perfectly into electrical gang boxes for discreet operation under light switch aesthetics
- Voltage regulated for 12 VDC or 24 VAC operation
- Low power consumption at less than 0.5 amp at 12 volts
- May be combined with EB-IR infrared illuminator for 24/7 facial capture surveillance

## Product Description

The FR Series cameras and illuminators are precision engineered for effective facial recognition surveillance at critical locations. Providing an important surveillance capability, the FR Series cameras supplement corner-mounted overview cameras with evidentiary video for identification.

Designed to fit inside standard electrical boxes, the FR Series cameras are precision engineered to capture facial images discreetly and effectively from the cover of light switch aesthetics. Integrated with standard décor plates, the FR Series cameras are well-positioned and well-disguised for facial recognition surveillance at critical access points.

FR Series cameras are available with Extreme's LXR CCD technology for vivid daytime color and outstanding spectral response in the near infrared. The CCDs are easily positioned using a convenient pan-tilt adjustable pivot which enables installers to achieve optimal CCD placement.

A range of fixed lenses ranging from 3.6mm to 12mm ensures that the FR Series is a good fit for any variety of applications. The FR Series is an energy efficient unit consuming very little power on either 12VDC or 24VAC.

FR Series cameras and illuminators are fast and easy to install and deliver maximum surveillance effectiveness for critical security projects. When combined with FR Series Infrared Illuminators, dealers can provide outstanding facial recognition surveillance performance on a 24/7 basis, under any lighting conditions.

## Product Image



The FR Series cameras deliver effective facial recognition surveillance for critical access points. Shown above with conduit fitting and décor plate (both sold separately), the FR Series are designed to fit into electrical gang boxes for discreet operation.



A corner mounted camera is effective for overview surveillance. However, it is not possible to identify the person at left.

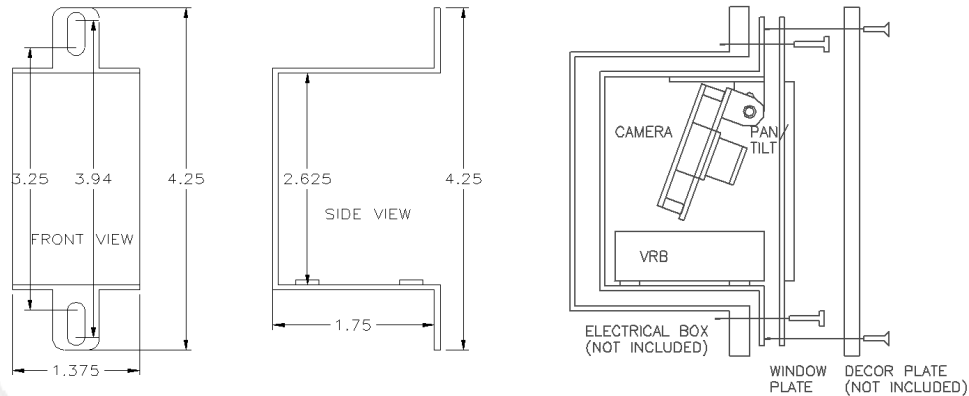


Operating from light switch height, the FR Series cameras capture video surveillance that clearly identifies the subject.

## Applications

- Banks
- Government buildings
- Commercial applications
- Critical infrastructure
- Defense
- Restricted access areas
- Casinos
- Airports
- Residential

### Technical Drawings



### Specifications: Color Cameras

	Standard Color Camera	Day/Night, Color/Mono w/ Enhanced IR Performance
CCD	<b>C3</b>	<b>MX4 with MFP Technology</b>
Image Sensor	1/3" Interline SuperHAD CCD	1/3" LXR CCD
Resolution	380 TVL color	450 TVL color / 570 TVL monochrome
Effective Pixels NTSC	NTSC: 510 (H) x 492 (V)	NTSC: 765 (H) x 494 (V)
Effective Pixels PAL	PAL: 500 (H) x 582 (V)	PAL: 752 (H) x 582 (V)
Sensitivity	0.5 Lux with F1.4 lens	0.1 Lux with F1.4 lens
S/N Ratio	Greater than 48dB	Greater than 46dB
Signal Processing	Digital Signal Processing (DSP)	
Output Signal	1Vp-p, 75Ω	
Gamma	0.45	
BLC	On / Off selectable	
Gain Control	AGC automatic	
Electronics Iris	1/60 ~ 1/100,000 (NTSC) • 1/50 ~ 1/100,000 (PAL)	
Filter	Dual-window mechanical type	
Gimbal	Pan-Tilt- gimbal	
Voltage	12 VDC or 24 VAC	
Power Draw	220 mA @ 12 VDC, 2.6 W (max)	
Weight	3.5oz   100g	
Operational Range	-30°C to +40°C   -22°F to 104°F	
Overall Dimension	1.4" (W) x 4.25" (H) x 1.8" (D)   35.5 x 108 x 45.7mm	

Dealer / Distributor



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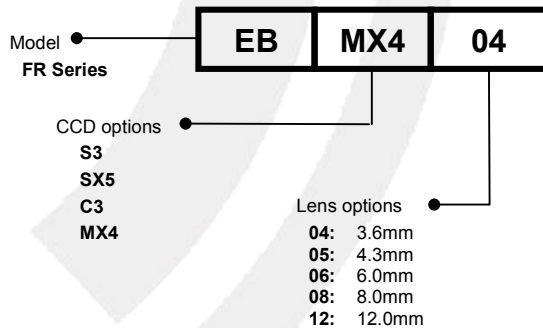


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### Specification: Monochrome Cameras

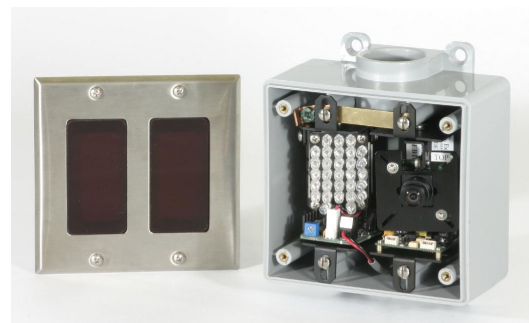
CCD	<b>S3 Series Mono CCD</b>	<b>SX5 Night-time sensor</b>
Image Sensor	1/3" Interline SuperHAD	1/3" LXR CCD
Resolution	600 TVL	600 TVL
Effective Pixels NTSC	NTSC: 768 (H) x 494 (V)	NTSC: 811 (H) x 508 (V)
Effective Pixels PAL	PAL: 752 (H) x 582 (V)	PAL: 795 (H) x 586 (V)
Sensitivity	2.7 Lux @ F1.4	0.14 Lux @ F1.4
S/N Ratio	Greater than 48dB	Greater than 48dB
Output Signal	1Vp-p, 75Ω	
Gamma	0.45	
Gain Control	AGC automatic	
Electronics Iris	1/60 ~ 1/100,000 (NTSC) • 1/50 ~ 1/100,000 (PAL)	
Gimbal	Pan-Tilt-gimbal	
Voltage	12 VDC or 24 VAC	
Power Draw	220 mA @ 12 VDC, 2.6 W (max)	
Weight	3.5oz   100g	
Operational Range	-30°C to +40°C   -22°F to 104°F	
Overall Dimension	1.4" (W) x 4.25" (H) x 1.8" (D)   35.5 x 108 x 45.7mm	

### Part Numbers



### Accessories

**EXPS.001** 12VDC Power Supply, 1.0A (NA)



The FR Series cameras integrate with electrical gang boxes and décor plates for covert operation. Combined here with FR-series IR illuminators for effective 24/7 facial recognition surveillance.

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