

## Key Features

- Conical No-Grip™ design for maximum safety
- Impossible to grip or hang from
- Performance CCDs including LXR-type and Mech Filter CCDs
- Hi-impact, vandal resistant design, extreme weather sealed
- Effective video capture from along walls and corridors
- Vandal-resistant design and extreme weather sealed
- Video Patch Lead (VPL) for non-split signal confirmation on a portable LCD test monitor (requires Video Patch Connector)
- Pan-Tilt-Twist™ Ring for maximum ease of installation
- CSA / UL certified for safe, legal installations
- CNC-milled anodised aluminum for mechanical strength, attractive finish and high resistance to harsh outdoor elements
- 1/8" thick polycarbonate dome for maximum vandal protection
- Thermally and mechanically optimised fastening hardware for improved reliability and stability
- Varifocal, auto-iris lenses for excellent optical performance
- Operating temperature range from -58°F to +140°F

## Product Description

The EX48 Conical No-Grip™ (CNG™) dome is designed to be virtually impossible to grip or hang from. In high-risk areas, such as hospitals or prisons, the camera helps to prevent at-risk persons from self-inflicted harm. The CNG™ is totally vandal-resistant and engineered for reliability and performance.

The EX48 takes advantage of Extreme's latest imaging technology, including LXR-type CCDs and the innovative photocell-controlled Mechanical Filter cameras. The in-camera VRB conditions power to allow 12 VDC or 24 VAC operation while providing protection from surges, transient spikes and other electrical irregularities.

The dome is packed with installer-friendly features, including Video Patch Leads (VPL) for "in-situ" video review on portable test monitors. The proprietary Pan-Tilt-Twist gimbal allows versatile positioning of the CCD and lens and instant centering of the video image. Internal fastening hardware is thermally and mechanically optimised for enhanced reliability. EX48 domes are conduit compatible for easy installation onto standard electrical fittings. Varifocal, auto-iris lenses ensure excellent optical performance.

The EX48 features base construction of CNC machined anodised aluminum, the same material used to protect satellites from the severe environments of outer space. Anodised aluminum is an incredibly durable material with high corrosion resistance and heat-resistant to over 1,200° F. Unlike other finishes, anodised aluminum has astounding chemical stability and will resist changes to color or appearance, even under heavy exposure to ultraviolet rays. The one-piece CNC fabrication process ensures the highest degree of precision and unyielding mechanical strength.

A polycarbonate dome of 3mm thickness is utilized to protect the internal camera components. Resistant to impact, fire, heat and UV, the polycarbonate dome is guaranteed unbreakable in the face of even the most vicious attacks by vandals. The weather-sealed EX48 is specified for performance in temperatures ranging from -50°C to +60°C (-58°F to +140°F) and certified for safe, legal installs.

## Product Image



## Applications

- Retail, schools, hospitals
- Commercial sites
- Hotels and gated communities
- Transportation hubs
- Restaurants / bars
- Retail establishments
- Industrial parks
- Banks
- Prisons and correctional facilities
- Hospitals
- Casinos
- Corporate campuses
- Schools, colleges and universities
- Vandal-prone locations

## Certifications / Compliance

CSA Type 4X	Outdoor Weather Rating
CSA C22.2 No 0-M1991	General Electrical Requirements, Part II
CSA C22.2 No 1-M94	Audio, Video, and Similar Equipment
CSA C22.2 No 94-M91	Special Purpose Enclosures
UL Std No 50	Enclosures for Electrical Equipment
UL Std No 2044	Commercial CCTV Equipment
	Applicable Health Care Facility Rqmts

Dealer / Distributor



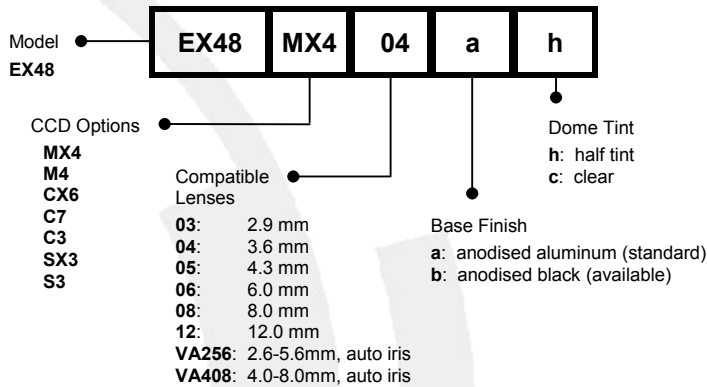
Corporate Headquarters  
**Extreme CCTV Inc**  
 TF: 1 888 409 2288  
 T: +1 604 420 7711  
 F: +1 604 420 3300  
 E: Sales@ExtremeCCTV.com  
 www.ExtremeCCTV.com



European Operations  
**Derwent Systems Ltd**  
 A Division of Extreme CCTV (UK) Ltd  
 T: +44 (0) 1670 730 187  
 F: +44 (0) 1670 730 188  
 E: SalesUK@DerwentCCTV.com  
 www.DerwentCCTV.com

**General CCD Specification** (See specification tables for detailed camera specifications)

CCD	Description
MX4	Mechanical filter, photocell, enhanced infrared sensitivity, 1/3" LXR sensor, 550 TVL color, 570 TVL monochrome
M4	Mechanical filter, photocell, 1/3" SuperHAD sensor, 550 TVL color, 570 TVL monochrome
CX6	Enhanced infrared sensitivity, 1/3" LXR sensor, 480 TVL color
C7	1/3" SuperHAD sensor, 480 TVL color
C3	1/3" SuperHAD sensor, 380 TVL color
SX3	Enhanced infrared sensitivity, 1/3" LXR sensor, 420 TVL monochrome
S3	1/3" SuperHAD sensor, 600 TVL monochrome

**Part Numbers** (Special Order Models available on request)

**Optional Accessories**

<a href="#">EXPS.001</a>	Power Supply Unit
<a href="#">VPC</a>	Video Patch Connector (to connect local video out to test monitor)

**Specifications: Photocell-Controlled Mechanical Filter Cameras, Day / Night Switching**

	Day-Night Switching, Color / Monochrome	Day/Night, Color/Mono w/ Enhanced IR Performance
CCD	<b>M4 with MFP Technology</b>	<b>MX4 with MFP Technology</b>
Image Sensor	1/3" Interline SuperHAD CCD	1/3" LXR CCD
Resolution	550 TVL color / 570 TVL monochrome	550 TVL color / 570 TVL monochrome
Effective Pixels NTSC	NTSC: 768 (H) x 494 (V)	NTSC: 768 (H) x 494 (V)
Effective Pixels PAL	PAL: 752 (H) x 582 (V)	PAL: 752 (H) x 582 (V)
Sensitivity	0.06 Lux with F1.4 lens   0 lux with infrared (B/W)	0.02 Lux with F1.4 lens   0 lux with infrared (B/W)
S/N Ratio	Greater than 48dB (AGC off)	Greater than 48dB (AGC off)
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-Twist for easy installation	
Voltage	12 to 24 VDC or VAC	
Power Draw	220 mA @ 12 VDC, 2.6 W (max)	
Dome Construction	Polycarbonate dome, 3mm thick	
Base Construction	CNC Anodised Aluminum	
Weight	2.1 lbs   950 g	
Operational Range	-50°C to +60°C   -58°F to 140°F	
Overall Dimension	∅6.38" x 3.16" H   162x80mm	

Patent Pending. Specifications are subject to change without notice.  
 © Extreme CCTV Inc 2007. Extreme CCTV International Inc is a subsidiary of Extreme CCTV Inc

EX48\_TS\_070101

Dealer / Distributor



Corporate Headquarters  
**Extreme CCTV Inc**  
 TF: 1 888 409 2288  
 T: +1 604 420 7711  
 F: +1 604 420 3300  
 E: Sales@ExtremeCCTV.com  
 www.ExtremeCCTV.com



European Operations  
**Derwent Systems Ltd**  
 A Division of Extreme CCTV (UK) Ltd  
 T: +44 (0) 1670 730 187  
 F: +44 (0) 1670 730 188  
 E: SalesUK@DerwentCCTV.com  
 www.DerwentCCTV.com

**Specifications: Color Cameras**

CCD	C3 Standard Performance	C7 High Resolution Color	CX6 LXR High Resolution Color
Image Sensor	1/3" Interline SuperHAD	1/3" Interline SuperHAD	1/3" LXR CCD
Resolution	380 TVL	480 TVL	480 TVL
Effective Pixels NTSC	510 (H) x 492 (V)	768 (H) x 494 (V)	811 (H) x 508 (V)
Effective Pixels PAL	500 (H) x 582 (V)	752 (H) x 582 (V)	795 (H) x 586 (V)
Sensitivity	0.5 Lux @ F1.4	2.7 Lux @ F1.4	0.14 Lux @ F1.4
S/N Ratio	Greater than 48dB	Greater than 48dB	Greater than 48dB
Output Signal	1Vp-p, 75Ω		
Gamma	0.45		
Gain Control	AGC		
Electronics Iris	1/60 ~ 1/100,000 (NTSC) • 1/50 ~ 1/100,000 (PAL)		
Gimbal	Pan-Tilt-Twist gimbal for easy installation		
Voltage	12 to 24 VDC or VAC		
Power Draw	220 mA @ 12 VDC, 2.6 W (max)		
Dome Construction	Polycarbonate dome		
Dome Thickness	3 mm   1/8"		
Base Construction	CNC Anodised Aluminum		
Weight	2.1 lbs   950 g		
Operational Range	-50°C to +60°C   -58°F to 140°F		
Overall Dimension	Ø6.38" x 3.16" H   162x80mm		

**Specifications: Monochrome Cameras**

CCD	S3 High Resolution Monochrome	SX3 Night-Time Sensor
Image Sensor	1/3" Interline SuperHAD	1/3" LXR CCD
Resolution	600 TVL	420 TVL
Effective Pixels	NTSC: 768 (H) x 494 (V) • PAL: 752 (H) x 582 (V)	EIA: 510 (H) x 492 (V) • CCIR: 500 (H) x 582 (V)
Sensitivity	0.05 Lux @ F1.4	0.05 Lux @ F2
S/N Ratio	Greater than 50dB	Greater than 50dB
Output Signal	1Vp-p, 75Ω	
Gamma	0.45	
Gain Control	AGC	
Electronics Iris	1/60 ~ 1/100,000 (NTSC) • 1/50 ~ 1/100,000 (PAL)	
Gimbal	Pan-Tilt-Twist gimbal for easy installation	
Voltage	12 to 24 VDC or VAC	
Power Draw	220 mA @ 12 VDC, 2.6 W (max)	
Dome Construction	Polycarbonate dome	
Dome Thickness	3 mm   1/8"	
Base Construction	CNC Anodised Aluminum	
Weight	2.1 lbs   950 g	
Operational Range	-50°C to +60°C   -58°F to 140°F	
Overall Dimension	Ø6.38" x 3.16" H   162x80mm	

Dealer / Distributor


 Corporate Headquarters  
**Extreme CCTV Inc**  
 TF: 1 888 409 2288  
 T: +1 604 420 7711  
 F: +1 604 420 3300  
 E: Sales@ExtremeCCTV.com  
 www.ExtremeCCTV.com

 European Operations  
**Derwent Systems Ltd**  
 A Division of Extreme CCTV (UK) Ltd  
 T: +44 (0) 1670 730 187  
 F: +44 (0) 1670 730 188  
 E: SalesUK@DerwentCCTV.com  
 www.DerwentCCTV.com