



EXO™ Fixed HD Camera

High Definition Camera Systems For Harsh Environments

The EXO Fixed vandal resistant and pressurized High Definition (HD) Network Camera System is the professional's choice for capturing high definition video. The vandal resistant model is great for urban areas, prisons, and other high risk applications. The pressurized model is perfect for marine, coastal areas, traffic monitoring, and other areas of high contamination. Pressurized models include a schraeder valve to fill the camera with nitrogen or another clean stable gas, and a 5-7 psi pressure relief valve so that the unit cannot be over pressurized. This product is built with hardened components to withstand extreme temperature ranges, power surges and heavy impacts.

Available Features

- HD 1080P or HD 720P
- 10x (1080P) or 12x (720P) optical zoom with auto focus
- Easy camera setup, no mechanical focus or focal length adjustment needed
- Day / Night with auto IR-cut filter, Wide Dynamic Range
- ONVIF, PSIA (Milestone, ONSSI), and GENETEC API, supported
- H.264 High Profile, MJPEG compression
- Temperature range: -58°F to 140°F (-50°C TO 60°C), up to 165°F (74°C), Per NEMA TS2
- Proprietary surge protection (Ethernet & power), with warranty, eliminates need for 3rd party protection
- Meets NEMA 4 and NEMA TS2 standards
- PoE IEEE802.3at or 24Vac power
- Video motion detection
- Feed-through wall / pole mount included
- Defog
- HLC (High Light Compression)
- WDR (Wide Dynamic Range)
- StableZoom

**MADE IN
USA**
BY AMERICA COMPANY • COUNTRY OF ORIGIN USA

EXO
SERIES



EXO™ Fixed HD Camera Series



Models:

EXVF5C-1

720P, 12x optical zoom, IK10 Vandal resistant with wall / pole mount

EXVF5C-2

1080P, 10x optical zoom, IK10 Vandal resistant with wall / pole mount

EXPF5C-1

720P, 12x optical zoom, IP67 Pressurized with wall / pole mount

EXPF5C-2

1080P, 10x optical zoom, IP67 Pressurized with wall / pole mount

Camera Specifications		
	720P	1080P
Image Sensor:	1/4-type Exmor CMOS	1/2.8-type CMOS
Lens / Digital Zoom:	12x Optical Zoom, f=3.7mm (wide) to 44.4mm (tele), F1.6 to F2.5; 12x (144x with optical zoom)	10x Optical Zoom, f=3.8mm (wide) to 38mm (tele), F1.8 to F3.4 12x (120x with optical zoom)
Minimum Illumination:	0.3 lx (F1.6, 50 IRE, High Sensitivity Mode On) 0.08 lx (F1.6, 50 IRE, High Sensitivity Mode On, ICR Mode On)	0.35 lx (F1.8, AGC on, 1/30s, High Sensitivity Mode On) 1.4 lx (F1.8, AGC on, 1/30s, Normal Mode On)
Shutter Speed:	1/1 s to 1/10,000s, 22 steps	
Selectable Shutter Speeds:	Automatic or user selectable	
Horizontal Viewing Angle:	55.9° (wide) to 2.9° (tele)	67.0° (wide) to 7.6° (tele)
Maximum Lens Aperture:	Minimum of f/1.6 (wide) to f/3.5 (tele)	10mm (wide) to 800mm (tele) (Default: 320mm)

Video Specifications		
	720P	1080P
Video Compression:	H.264 High, Main and Baseline profiles Motion JPEG	
Resolutions:	H.264: 1280x720, 640x360, H.264 or Motion JPEG: 640x360, 4CIF, VGA, 2CIF, CIF	H.264: 1080p/30, 1280x720, 640x360, H.264 or Motion JPEG: 640x360, 4CIF, VGA, 2CIF, CIF
Frame Rate:	Up to HD 720p @ 60fps	Up to HD 1080p @ 30fps
Video Streaming:	User selectable (1) H.264 and (1) H.264 or MJPEG	
Image Settings:	Wide dynamic range (WDR), manual shutter time, compression, color, brightness, sharpness, white balance, exposure control, exposure zones, backlight compensation, fine tuning of behavior at low light, rotation, text and image overlay, privacy masks, image freeze on PTZ, Defog, HLC, WDR, StableZoom*	
Data Rate:	Variable Bit Rate, Motion adaptive variable bit rate and Constant Bit Rate modes. 64 kbps – 6 Mbps per channel (requires less than 1 Mbps @ 4CIF/30fps)	
Mega Pixels:	1.3 MP	2.38 MP

* For 1080P model.

Electrical Specifications	
Alarm Inputs:	1 Alarm input
Power Input / Input Voltage:	PoE Plus IEEE802.3at or 24Vac, 35W
Surge Protection:	Proprietary two (2) stage surge protection (3 year warranty)
Audio Streaming:	Two-way: Uncompressed PCM High-fidelity AAC-LC G.71
Audio Input / Output:	Single analog audio input; Single analog audio output (External Microphone and Speaker required)
Connectors:	RJ45 for 10BASE-T/100BASE-TX, Phoenix style connectors for AC/DC power, 4 configurable alarm inputs / outputs, mic in, line mono input, line mono output to active speaker

System Integration Specifications	
Application Programming Interface:	GENETEC API, PSIA (Milestone, ONSSI), ONVIF
Event Triggers:	Video motion detection, memory card full
Event Actions:	Video recording to edge storage

Optional Accessories:

CM900

Aluminum ceiling mount bracket



MA-900

Aluminum mast arm mounting bracket



FMPFH2

Flat mounting plate



FMPFH1

"U" bracket



The above are compatible with 3rd Party 109mm "U" Brackets



Protocols Specifications	
Networking:	IPv4/v6, UDP, TCP, IGMP, ICMP, ARP, DHCP, DNS
Streaming:	RTP, HTTP
Management:	RTSP, HTTP, HTTPS, Bonjour, NTP, Telnet, SNMP
Security:	Password protection, HTTPS encryption, digest authentication, user access log
System Administration:	Web GUI interface (HTTP or HTTPS)
Access Control:	SSL, Basic and Digest Authentication
Audio / Video Buffering:	Recorded ASF files to micro-SD medium
Long Term System Configuration Memory:	System configuration stored on internal flash
Software Update:	Fault-tolerant, remote accessible
Alarm Events:	Triggered by external input
Network:	Standard 10/100 Base-T Ethernet port
Edge Recording:	One (1) micro-SD / SDHC / SDXC interface (2-32GB Sold Separately, class 6 or above micro SD card)

Environmental Specifications	
Humidity:	0-100% N.C per MIL-E-5400T, paragraphs 3.2.24.4
Impact Rating:	IK10 (Vandal Resistant Model)
Ingress Protection Rating:	IP67 (Pressurized Model)
Maximum Windload:	150mph (240kph)
Operating Temperature:	-58°F to 140°F (-50°C to 60°C), up to 165°F (74°C) for short periods of time Per NEMA TS2
Vibration:	Conforms to NEMA TS2, para 2.1.9

General Specifications	
Housing:	Aluminum and Stainless steel hardware
Window:	Vandal: Polycarbonate, Pressurized: Glass
Mounting Style:	Includes: Wall / Pole, Optional: Mast Arm or Flat Plate
Schraeder Valve (Pressurized):	Nitrogen input
Pressure Relief Valve (Pressurized):	5-7 psi
Net Weight:	10 lb (4.5 Kg)
Dimensions:	8.25" x 11.75" x 19.5" (209 x 298 x 495mm)
Warranty:	3 years, including surge protection

Regulatory and Certifications



ONVIF Member



CE



REACH



NEMA Rating



RoHS



UL Listed • PENDING



Sensor and Surveillance Systems

3650 Woodhead Drive Northbrook, IL, USA 60062

+1.847.498.0700 Fax: +1.847.498.1258 www.moogS3.com