CAMERA **SYSTEMS**_ MOOG

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EXOTM

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 prefect 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
- HLC (High Light Compression)
- WDR (Wide Dynamic Range)
- StableZoom











EXO[™] Fixed HD Camera Series





Models:

EXVF5C-1

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

EXPF5C-1

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

EXVF5C-2

1080P, 10x optical zoom, IK10 Vandal resistant 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 kx (F1.6, 50 IRE, High Sensitivity Mode On) 0.08 kx (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 1/10,0	000s, 22 steps
Selectable Shutter Speeds:	Automatic or u	iser 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)

	Maximum Lono Aportaro.	to f/3.5 (tele)	(Default: 320mm)
		Video Spec	cifications
		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* Variable Bit Rate, Motion adaptive variable bit rate and Constant Bit Rate modes. 64 kbps — 6 Mbps per channel (requires less than 1 Mbps @ 4ClF/30fps)	
	Data Rate:		
	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, Pheonix 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

FMPFH2

Flat mounting plate



"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 Seperatly, 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

ONVIE **ONVIF Member**

NEMA

NEMA Rating







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