



# EXO™ Pressurized Camera High Definition Camera Systems For Harsh Environments

The EXO Pressurized High Definition (HD) Network Camera System is the professional's choice for capturing brilliant, 1080P full HD video in areas of high contamination. The EXO Series is built tough to withstand extreme temperature ranges, power surges, heavy impacts, and contamination from debris, chemicals and water.

## Available Features

- HD 1080P
- 20x & 30x optical zoom models
- 30x zoom models have image stabilization
- Day / Night with auto IR-cut filter, Wide Dynamic Range
- ONVIF, PSIA (Milestone, ONSSI), and GENETEC API, supported
- Meets NEMA 4X and NEMA TS2 standards
- Micro-SD / SDHC / SDXC / support
- H.264 High Profile, MJPEG compression
- Video motion detection
- Audio synchronization
- 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 and alarm / data wires)
- Multiple mounting options
- IK10 Vandal Resistant

MADE IN  
USA  
BUY AMERICAN COMPANY • COUNTRY OF ORIGIN USA

EXO  
SERIES



# EXO™ Pressurized Camera



## EXO Pressurized

The pressurized outdoor pan-tilt-zoom high definition (HD) IP video camera totally protects electronics and lenses from debris, chemicals and other contaminants; thereby reducing service calls and extending camera life. Each pressurized unit includes a Schraeder valve to fill the housing with Nitrogen or another clean stable gas, and a 5-7psi pressure relief valve so that the unit cannot be over pressurized.

## Models:

### EXPF7C2-2

20x optical zoom, Pressurized, Pendant mount with sunshield

### EXPF7C2-3

30x optical zoom, Image Stabilization, Pressurized, Pendant mount with sunshield

Camera Specifications		
	20x	30x
Image Sensor:	1/2.8-type Exmor CMOS	
Lens / Digital Zoom:	20x Optical Zoom, f=4.7mm (wide) to 94.0mm (tele); 12x (240x with optical zoom)	30x Optical Zoom, f=4.6mm (wide) to 138.0mm (tele); 12x (360x with optical zoom)
Minimum Illumination:	0.5 lx (F1.6, 50 IRE, High Sensitivity Mode On) 0.095 lx (F1.6, 50 IRE, High Sensitivity Mode On, ICR Mode On)	
Shutter Speed:	Automatic or user selectable	
Selectable Shutter Speeds:	1/1 to 1/10,000s, 22 steps	
Pan/Tilt/Zoom:	Pan: 360° continuous rotation; Tilt: 0° to 95° above horizon; Speed: 0.5°-80°/sec manual operation, 120°/sec preset	
Horizontal Viewing Angle:	55.4° (wide) to 2.9° (tele end)	59.5° (wide) to 2.1° (tele end)
Image Stabilization:	No	Yes
Maximum Lens Aperture:	Minimum of f/1.6 (wide) to f/3.5 (tele)	Minimum of f/1.6 (wide) to f/4.7 (tele)

Video Specifications	
Video Compression:	H.264 High, Main and Baseline profiles Motion JPEG
Resolutions:	H.264: 1920x1080, 1280x720, 640x360, H.264 or Motion JPEG: 640x360, 4CIF, VGA, 2CIF, CIF
Frame Rate:	Up to HD 1080p @ 30 fps/720p @ 60fps
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
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)

Electrical Specifications	
Alarm Inputs / Output:	1 Alarm input
Power Input / Input Voltage:	24Vac, 80W
Surge Protection:	Proprietary two (2) stage surge protection (3 year warranty)
Audio Streaming:	Two-way: Uncompressed PCM High-fidelity AAC-LC G.711
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

## Accessories:

### WM20GG

Gooseneck wall mount



### PRM50G

Large parapet mount, white



### ACA2G

Corner mount adapter



### APM6B

Pole mount adapter



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

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:	IK-10
Ingress Protection Rating:	IP67
Maximum Windload:	150mph (240kph)
Operating Temperature:	-58°F to 140°F (-50°C to 60°C), up to 165°F (74°C), Per NEMA TS2
Vibration:	Conforms to NEMA TS2, para 2.1.9

General Specifications	
Housing Style:	High-impact engineered plastic, UV protected with UL flame rating of UL94-5vA, Aluminum sunshield
Dome:	OptiClear, special Nylon blend
Mounting Style:	Pendant mount
Mounting Pattern:	Pendant: 1.5" npt
Schraeder Valve:	Nitrogen input
Pressure Relief Valve:	5-7 psi
Net Weight:	13 lb (5.9 Kg)
Dimensions (h*w*d):	14.4" x 11.2" x 11.2" (366 x 285 x 285mm)
Warranty:	3 years, including surge protection

## Regulatory and Certifications



ONVIF Member



CE



REACH



NEMA Rating



RoHS



UL Listed



WEEE



## Sensor and Surveillance Systems

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