EXO™ High Definition Camera Systems
For Harsh Environments

EXO Series High Definition (HD) Network Camera Systems, with H.264 High Profile and ONVIF support, are the professional’s choice for capturing brilliant, 1080P full HD video in extreme applications. The EXO Series is built tough to withstand extreme temperature ranges, power surges, heavy impacts, corrosion, and even bullets. EXO Pan-Tilt-Zoom (PTZ) Camera Systems are available in six models: EXO Pressurized, EXO Anti-Corrosion, EXO Bullet Resistant, EXO Vandal Resistant, EXO Surface Mount and EXO Explosion Proof.

Key Features
- HDTV 1080P models 0.095lx min. illumination
- 20x zoom, Day / Night with auto IR-cut filter, Wide Dynamic Range
- H.264 High Profile
- Multiple models suited to different extreme environments
- ONVIF compliant
- Temperature range: -58°F to 165°F (-50°C to 74°C)
- Built-in surge protection (Ethernet & power)
- Meets NEMA 4x and NEMA TS2 standards (most models)

PTZ Style Features
- Heavy-duty pan/tilt mechanism, including metal gearing and wide belts for long life and unmatched durability, 360° continuous rotation
- OptiClear lower dome offers industry leading clarity, durability and chemical resistance
- Presets and 3 auto-tours, adjustable privacy zones

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**EXO: Pressurized**
The EXO Pressurized Camera System totally protects electronics and lenses from debris, chemicals and other containments; 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.

**EXO: Anti-Corrosive**
The EXO Stainless Steel (SS) Camera System is designed to protect video surveillance equipment in corrosive and harsh chemical environments; the outer housing & sunshield are constructed of 316 SS and a special optically clear lower dome that has outstanding chemical resistance, the ability to endure stress without cracking, and anti-scratch properties. The lower dome is clearly advanced over both acrylic and polycarbonate domes. The EXO Stainless Steel Camera System is the ideal solution for marine, medical, pharmaceutical, oil/gas processing plants, food processing, transportation and other harsh environments.

**EXO: Bullet Resistant**
The EXO Bullet-Resistant Camera System provides an unparalleled level of protection in hostile environments. Exceeding UL Standard 752 – Level 1 protection, the enclosure is constructed of heavy-gauge stainless steel and incorporates a unique “turret” system, which enables the dome to absorb the shock of attacking bullets (up to 9mm). This absorption effect protects the camera from hostile vibrations. This unit is ideal for volatile, high-crime areas.
**EXO Vandal Resistant**

Ideal for applications needing extra protection from vandalistic attacks, the EXO Vandal Resistant Camera System is built to withstand violent impacts. Constructed of cast aluminum with an OptiClear polycarbonate dome this unit is ideal in urban areas, prisons and other areas where there is a high probability of attacks on surveillance equipment.

**EXO: Surface Mount**

Ideal for applications needing extra protection from vandalistic attacks, the EXO Surface Mount Camera System is built to withstand violent impacts while being mounted flush against most surfaces. Constructed of cast aluminum with a OptiClear polycarbonate dome this unit is ideal in urban areas, prisons and other areas where there is a high probability of attacks on surveillance equipment.

**EXO: Explosion Proof**

The EXO Explosion-Proof Camera System is a highly effective solution for monitoring activity in hazardous, explosive environments. Operating on a supply of compressed air or inert gas, the system regulates the pressure within the sealed camera enclosure thereby protecting it from extremely hazardous fumes or gases, which could ignite a violent explosion. UL approved for hazardous locations (Class 1/Division 2, Class 2/Division 2). Certified to UL NFPA 496 purged and pressurized enclosures for electrical equipment, and to UL NFPA 60950-1 for information technology equipment.

**EXRHC2-3**
Vandal resistant wall / pendant outdoor HD network camera system

**EXSM7C2-3**
Vandal resistant surface mount outdoor HD network camera system

**EXPD7C1-3**
Purge explosive environments outdoor HD network camera system
### Camera Specifications (For ALL products)

- **Imager:** 1/2.8 progressive scan CMOS, 3.27 Megapixels
- **Lens:** 20x Optical zoom, f=4.7 - 94 mm, F1.6 - 3.5 autofocus, auto D / N, horizontal angle of view: 55.4° - 2.9° (1080p)
- **Minimum Illumination:** B / W: 0.09 lx, F1.6
- **Image Settings:** Wide dynamic range (WDR), manual shutter time, compression, color, brightness, sharpness, white balance, exposure control, backlight compensation

### Pan/Tilt Specifications

- **Construction Bearings:** Precision ball bearings, permanently lubricated bushings
- **Construction Motors:** Stepper motors
- **Drive:** Belt-driven, ¼-inch wide
- **Panning:** 360° - Continuous
- **Panning Speed:** 120°/sec, 0.5°-80°/sec manual operation
- **Preset Accuracy:** +/- .05 degree
- **Tilting Angle:** 4° to 90°
- **Tilting Speed:** 120°/sec, 0.5°-80°/sec manual operation

### Network Specifications (For ALL products)

- **Video Compression:** H.264, MPEG-4, MJPEG: Up to 30 / 25 fps (60 / 50 Hz)
- **Resolutions:** HDTV 1080p 1920 x 1080 to 320 x 180
- **Video Streaming:** Multi-stream H.264 and motion JPEG; controllable frame rate and bandwidth VBR / CBR

### General Specifications

- **Housing Style:** Pressurized Stainless Steel (Anti-Corrosive)
- **Mounting Style:** Wall or Pole, Pendant (optional wall mount)

### Electrical Specifications

- **Alarm Inputs / Output:** 2 / 2
- **Input Voltage:** 24Vac, 120Vac, 24Vac, 120 / 220Vac
- **Power Consumption:** 80 watts (va), 90 watts (va), 80 watts (va), Pressure and Purge System 12Vac 15A

### Mechanical Specifications

- **Construction Top:** Engineered Plastic, 316 Stainless Steel, Stainless Steel, Cast Aluminum, Engineered Plastic
- **Construction Sunshield:** Aluminum, 316 Stainless Steel, N / A, Aluminum, N / A
- **Mounting Pattern Wall (w*th, Bolt size):** 2” x 5.5”, 3/8”, 7.25” x 7.25”, 5/16, 2” x 5.5”, 3/8”
- **Pendant Mount Treads:** 1 ½” NPT, N / A, 1 ½” NPT, N / A
- **Pressure Relief Valve / Schraeder Valve:** 5-7 psi / Nitrogen input, N / A
- **Trim Ring:** Engineered Plastic, 316 Stainless Steel, Cast Aluminum, Engineered Plastic

### Environmental Specifications

- **Blower / Heater:** Yes / Yes
- **Heater activates / deactivates at:** 60°F (15.5°C) / 80°F (27°C)
- **IP Rating (Weather Rating):** IP67, IP66, IP67
- **Maximum Windload:** 150 mph (240 kph)
- **Operating Temperature:** -58°F to 165°F (-50°C to 74°C)
- **Impact / Bullet Resistant Rating:** IK 10, Meets UL 752, Level 1, IK 10, N / A
- **Vibration:** Conforms to NEMA TS2, para 2.1.9, N / A, Conforms to NEMA TS2, para 2.1.9, N / A
- **Regulatory:** CE, UL, NEMA 4x, RoHS, WEEE, RoHS, UL, WEEE, CE, UL, WEEE, RoHS, NEMA 4x, UL, WEEE, NEMA 4x