

# PurgeDome

## Explosion-Proof DomeCamera System



UL Class 1- Division 2 Certified, Videolarm's PurgeDome Explosion Proof camera system provides a highly effective solution for monitoring in explosive/hazardous environments. Operating on a supply of compressed air or inert gas, the PurgeDome system regulates the pressure within the sealed camera enclosure protecting it from extremely hazardous fumes or gases, which could ignite in a violent explosion.

### KEY FEATURES

- **UL approved for Hazardous Locations (Class 1/Division 2)**
- **Certified to UL NFPA 496 Purged and Pressurized Enclosures for Electrical Equipment and to UL NFPA 60950-1 for Information Technology Equipment**
- **23x Optical Zoom and 10x Digital Zoom (230x Total)**
- **Auto Focus, High-Res Integrated Day/Night IR Sensitive Camera/Lens Package**
- **IP66 Rating for water and dust ingress**
- **360° Continuous Rotation**
- **16 User Selectable Privacy Zones**
- **Integrated power box, 110/220vac input**
- **Filter-Regulator with pressure gauge provides clean, protective gas to the enclosure**
- **Differential Pressure Gauge Indicates Internal Pressure**

# PurgeDome Camera System

## TWO DISTINCT MODELS - IP READY DIGITAL PTZ OR ANALOG PTZ

### IP Ready (Network) PTZ Model:

**PDW7CN-9:** Purged dome camera system for Hazardous Environments, IP network ptz camera w/ 23x zoom lens, day&night, MPEG-4 & MJPEG video compression format, Full D1. 110/220Vac input. The product includes the Camera, powerbox, purge box and a 100 ft. of hose to connect purge box to power box.

### Analog PTZ Model:

**PDW7CS-9:** Purged dome camera system for Hazardous Environments, analog ptz camera w/ 23x zoom lens, day&night, RS422 communication, Videolarm, Pelco P&D protocols. 110/220Vac input. The product includes the Camera, powerbox, purge box and a 100 ft. of hose to connect purge box to power box.

## Purge Dome: UL Hazard Classifications:

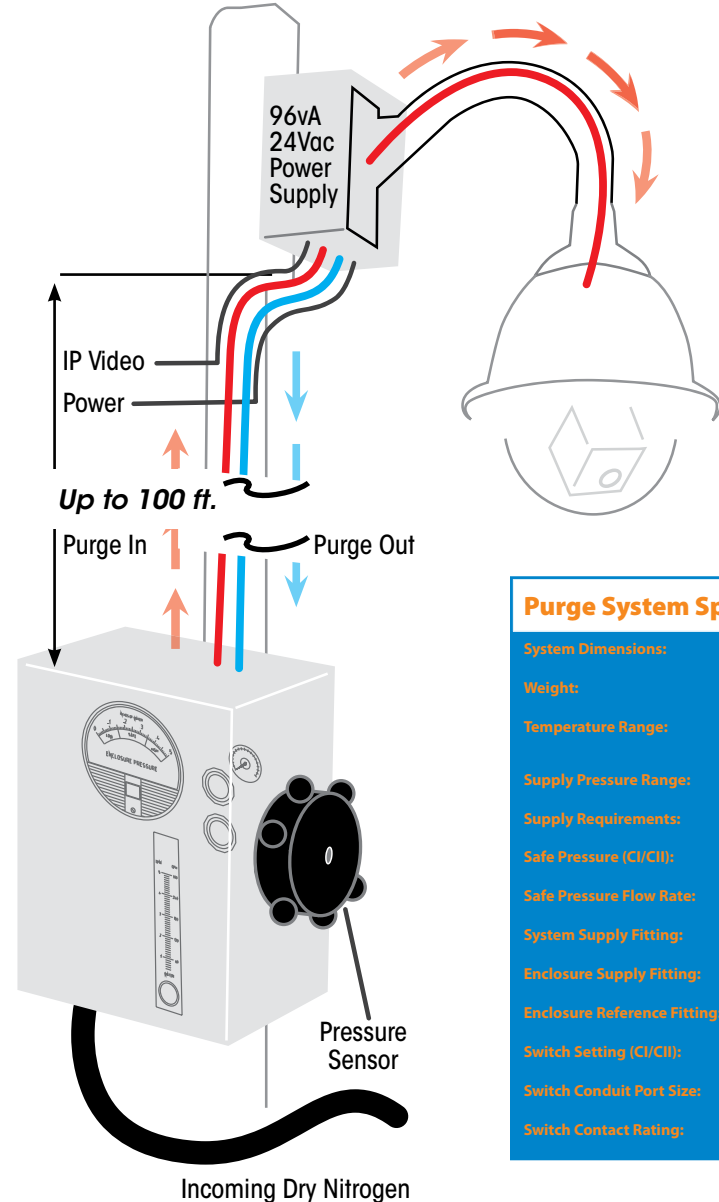


**Class 1 / Division 2:** Where ignitable concentrations of flammable gases, vapors or liquids are not likely to exist under normal operating conditions.

### Ignition Capability – Group C & D:

- Ethylene
- Propane

**Protection Methods:** Purged/pressurized (Type Z) with US NFPA 496 Certification.



### Purge System Specifications

<b>System Dimensions:</b>	16.6" x 16" x 6.7"
<b>Weight:</b>	10 lbs.
<b>Temperature Range:</b>	-20°F to 120°F (-29°C to 49°C)
<b>Supply Pressure Range:</b>	5 - 120 psi
<b>Supply Requirements:</b>	Clean air or inert gas
<b>Safe Pressure (CI/CL):</b>	0.25/1.0
<b>Safe Pressure Flow Rate:</b>	0.1 - 3.5 SCFH
<b>System Supply Fitting:</b>	5/8" tube fitting
<b>Enclosure Supply Fitting:</b>	5/8" tube fitting
<b>Enclosure Reference Fitting:</b>	1/4" tube fitting
<b>Switch Setting (CI/CL):</b>	0.15 / 0.5 ± 0.02
<b>Switch Conduit Port Size:</b>	1/2" FPT
<b>Switch Contact Rating:</b>	120Vac, 15A

### Camera Specifications

<b>Image sensor:</b>	1/4" interline transfer CCD
<b>Number of effective pixels:</b>	360,000 pixels, 724 (H) x 494 (V)
<b>Resolution:</b>	470 (H) x 400 (V) TV lines
<b>Lens:</b>	23x optical, (f=3.6mm - 82.8mm)
<b>Digital zoom:</b>	10x (230x with optical zoom)
<b>Angle of view:</b>	(H) 54° (wide end) to 2.5° (tele end)
<b>Minimum Illumination:</b>	Color: 3 lux @ 1/60s, .2 lux @ 1/5s B&W: 0.02 lux (1/5s, IR cut filter removed)
<b>S/N ratio:</b>	50 dB
<b>PTZ Pan/Tilt/Zoom Mechanism</b>	
<b>Pan Movement:</b>	360° Continuous pan rotation
<b>Vertical Tilt Unobstructed:</b>	0° to -90°
<b>Manual Speeds:</b>	<i>Pan:</i> .05°-80°/sec manual operation
<b>Preset Speeds:</b>	<i>Pan:</i> 120°/sec <i>Tilt:</i> 120°/sec
<b>Positioning:</b>	+/- .05 degree
<b>Construction:</b>	Aluminum
<b>Gearing:</b>	Belt-driven, 1/4" wide
<b>Bearings:</b>	Precision ball bearings, and permanently lubricated bushings

### Mechanical Specifications

<b>Size:</b>	<i>Camera:</i> 14.4" x 11.2" x 11.2" (366 x 285 x 285mm) <i>PowerBox:</i> 2.3" x 8.7" x 5.7" (374 x 208 x 369mm)
<b>Weight:</b>	25 lbs (11.4kg)

### Electrical Specifications

<b>Power requirements:</b>	110/120Vac, 15A
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### Environmental Specifications

<b>Operating Temperature:</b>	-20° F to + 104° F (-29° C to + 49° C)
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### Network Specifications

<b>Network Interface:</b>	10/100 Base-T Ethernet
<b>Image Compression:</b>	MPEG-4 Simple Profile (SP); JPEG; MJPEG

### Certifications and Ratings



UL Listed



WEEE



IP66 Rating