

PurgeDome

Explosion-Proof Dome Camera System



"UL Class 1-Division 2 Certified, Videolarm's PurgeDome Explosion Proof camera system provides a highly effective solution for monitoring in explosive 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 gasses, which could ignite in a violent explosion."

- *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

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 hoses to connect purge box to power box.

Analog PTZ Model: PDW7CS-9:

IPurged 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 hoses to connect purge box to power box.

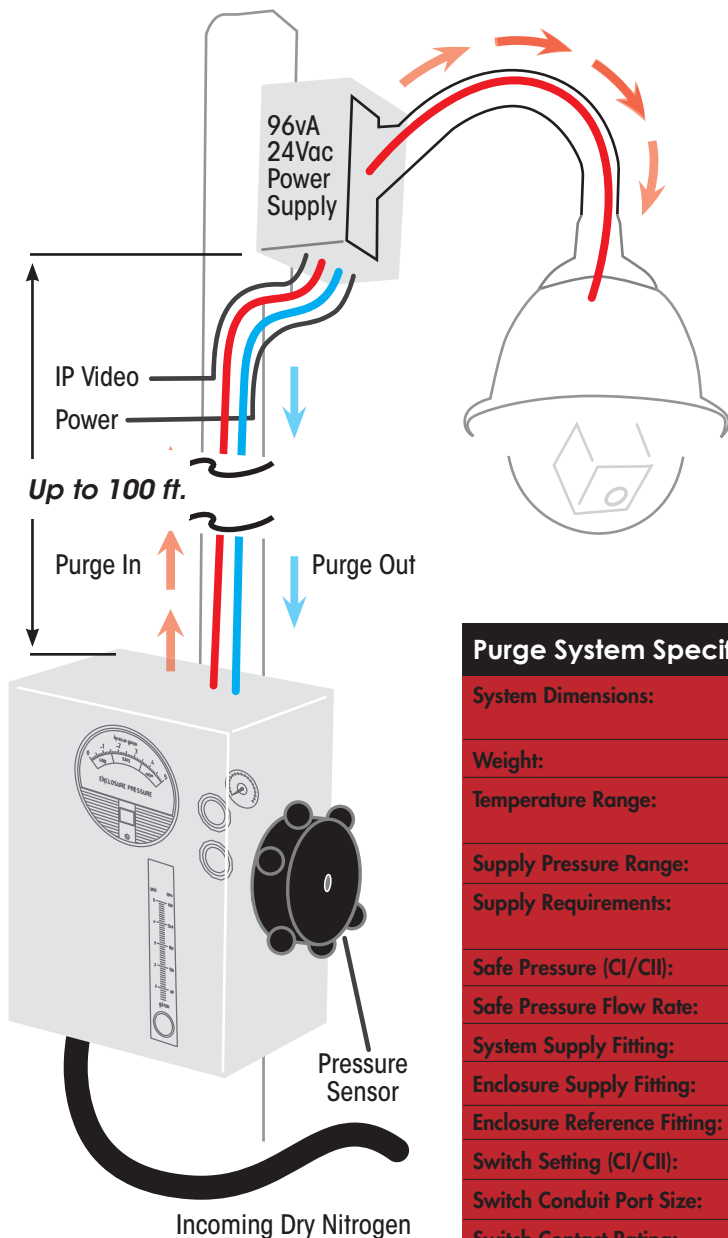
Purge Dome: UL Hazard Classifications:

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

System Dimensions:	16.6" x 16" x 6.7"
Weight:	10 lbs.
Temperature Range:	-20°F to 120°F (-29°C to 49°C)
Supply Pressure Range:	5 - 120 psi
Supply Requirements:	Clean air or inert gas
Safe Pressure (CI/CII):	0.25/1.0
Safe Pressure Flow Rate:	0.1 - 3.5 SCFH
System Supply Fitting:	3/8" tube fitting
Enclosure Supply Fitting:	3/8" tube fitting
Enclosure Reference Fitting:	1/4" tube fitting
Switch Setting (CI/CII):	0.15 / 0.5 ± 0.02
Switch Conduit Port Size:	1/2" FPT
Switch Contact Rating:	120Vac, 15A

Camera Specifications

Image sensor:	1/4" interline transfer CCD
Number of effective pixels:	360,000 pixels, 724 (H) x 494 (V)
Resolution:	470 (H) x 400 (V) TV lines
Lens:	23x optical, (f=3.6mm - 82.8mm)
Digital zoom:	10x (230x with optical zoom)
Angle of view:	(H) 54° (wide end) to 2.5° (tele end)
Minimum illumination:	Color: 3 lux @ 1/60s, .2 lux @ 1/4S B&W: 0.02 lux (1/4S, IR cut filter removed)
S/N ratio:	50 dB
PTZ Pan/Tilt/Zoom Mechanism	
Pan Movement:	360° Continuous pan rotation
Vertical Tilt Unobstructed:	0° to -90°
Manual Speeds:	Pan: .0.5°-80°/sec manual operation
Preset Speeds:	Pan: 120°/sec Tilt: 120°/sec
Positioning:	+/- .05 degree
Construction:	Aluminum
Gearing:	Belt-driven, 1/4" wide
Bearings:	Precision ball bearings, and permanently lubricated bushings

Mechanical Specifications

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

Electrical Specifications

Power requirements:	120vac, 15A
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Environmental Specifications

Operating Temperature:	-20° F to + 104° F (-29° C to + 40° C)
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Network Specifications

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

Certifications and Ratings



UL Listed



WEEE



IP66 Rating

For full product specs, go to www.videolarm.com and use the search engine to navigate to a specific product page.

