

# FusionDome™ FD8/IFD8/PFD8



Housings

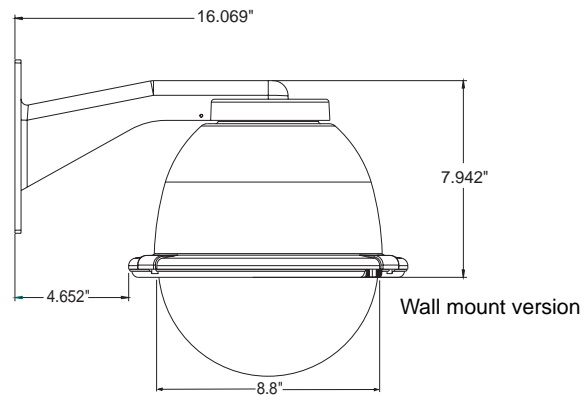
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Outdoor Domes



Shown with WM12 wall mount

\*Patent Pending



## DESCRIPTION

The 8" FusionDome™ offers versatility and outstanding camera protection in a compact size. It was engineered to accept a variety of manufacturers' unitized camera systems, including Sensormatic/AD, JVC, Trinus, and Pelco, plus a single fixed camera with a maximum camera length of 7.5" can be placed in the unit. The pressurized version of the FusionDome™ eliminates the effects of dust, moisture, exhaust fumes, and insects on your valuable equipment.

## FEATURES

- Durable engineered plastic top, 94VO, outdoor and pressurized models are also UV protected
- Standard wall mount with the FD8 outdoor model
- Accepts many manufacturers' unitized camera systems
- Accepts single fixed camera
- The FD8 is lab certified at IP66 and is designed to meet NEMA 4X for water ingress, with a temperature rating -50° when the optional Cold Weather Kit is added
- The PFD8 is lab certified at IP67 and is designed to meet NEMA 4X for water ingress, with a temperature rating -50° standard
- The IFD8 is designed to meet NEMA 1 for falling dirt ingress and IP66
- Available in wall or pendant mount

## ARCHITECTURAL/ENGINEERING SPECIFICATIONS

The FD8 housing shall be an outdoor housing and the IFD8 an indoor housing, both available in either wall or pendant mounted versions. The PFD8 pressurized housing shall be a pendant mount housing. The FusionDome™ units shall be designed to accommodate unitized camera systems by manufacturers such as Sensormatic/AD, Pelco, JVC and Trinus; and fixed cameras with a maximum camera length of 7.5". Adapter brackets for the unitized camera systems shall be included with each unit. Outdoor enclosures shall also be equipped with blowers and thermostatically controlled heaters. Units will be available with 24 VAC inputs. The housings shall be manufactured from a high-impact engineered plastic, UV protected (for outdoor models), with a UL flame rating of 94VO. The dome shall be made of a thermoformed, optically clear, cell-cast acrylic material. The dome

shall be held in place with minimum of (3) fasteners for the FD8 and IFD8 and a minimum of (9) fasteners for the PFD8, and a safety cable shall be provided to hold the dome while servicing. Access to the enclosure shall be from below with (3) captive fasteners for the FD8 and the IFD8 and (9) captive fasteners for the PFD8 used to press the dome against a sealing o-ring. A twist-off feature shall allow for the final removal of the dome.

For the pressurized PFD8 model, a secondary O-ring seal shall be provided at the top of the enclosure through a precision machined bracket. This machined bracket shall also be provided with a 3 to 5 psi pressure-relief valve and a standard bore thread dill valve to insert inert dry nitrogen into the enclosure. All incoming wires will enter the unit via a 10-pin hermetically sealed connector. A quick-release bracket will be provided at the top of the unit for ease of installation and quick removal of the unit.

## ELECTRICAL SPECIFICATIONS

Standard	24 VAC	27 watts (excluding camera)
Pressurized	24 VAC	52 watts (excluding camera)

## MECHANICAL SPECIFICATIONS

Size (hwxwd):	12.8" x 11.4" x 16.1"
Weight:	10 lbs.
Construction:	
Top:	.125" engineered plastic
Dome:	Cell-cast acrylic
Wall Mount Bracket:	WM12 cast aluminum wall bracket standard.
Components:	
Seals:	.136" x 10.25" O-ring (FD8 and PFD8) .136" x 4.5" O-ring (PFD8 only)
<i>PFD8 only:</i>	
Pressure Relief Valve:	3 - 5psi
Schraeder Valve:	Nitrogen input
Power Connectors	
(power/video/controls):	10-pin Souriau, hemetically sealed

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**LOW PRESSURE ALARM SPECIFICATIONS (PFD8)**

Switch Type: SPST Normally open  
Current Rating 40mA resistive for life in excess of 20 million cycles  
Operating Voltage AC/DC - 30V or less with resistive load  
Pressure Set Point .43psi ( 29.8mbar)

**ENVIRONMENTAL SPECIFICATIONS**

Operating Temperature:  
Standard -20° F to +120° F  
With Cold Weather Kit -50° F to +120° F  
Heater activates at +40° F (+/-8°), deactivates at +60° F (+/-8°)  
Effective Projected Area (EPA): Approx. 180 square inches  
Operating Humidity: Up to 100%

**MODELS - Outdoor FusionDome™**

LAB CERTIFIED AT IP66 AND DESIGNED TO MEET NEMA 4X FOR WATER INGRESS

TEMPERATURE RATING: -50° F WITH OPTIONAL COLD WEATHER KIT

- FDW8CF** -Wall mount unit with clear lower dome, fixed camera mount (MCL - 7.5")
- FDW8CF2** - Wall mount unit with clear lower dome, 24 VAC input, heater/blower, and fixed camera bracket
- FDW8C2** - Wall mount unit with clear lower dome, 24 VAC input, heater/blower/camera, and universal mounting plate for unitized camera systems

**NOTE:** Replace "C" with "T" in model number for tinted dome (1 F-stop light reduction)  
Replace "W" with "P" in model number for pendant mount

**MODELS - Pressurized FusionDome™**

LAB CERTIFIED AT IP67 AND DESIGNED TO MEET NEMA 4X FOR WATER INGRESS

TEMPERATURE RATING: -50° F STANDARD

- PFD8C2** - Pendant mount unit with clear lower dome, 24 VAC heater/blower/camera, and universal mounting plate for unitized camera systems
- PFD8C2A** - Same as PFD8C2 except with Low Pressure Alarm

**NOTE:** Replace "C" with "T" in model number for tinted dome (1 F-stop light reduction)

**MODELS - Indoor FusionDome™**

DESIGNED TO MEET NEMA 1 FOR FALLING DIRT INGRESS AND IP66

- IFDW8CF** -Wall mount unit with clear lower dome, fixed camera bracket (MCL - 7.5")
- IFDW8C** - Wall mount unit with clear lower dome and universal mounting plate for unitized camera systems

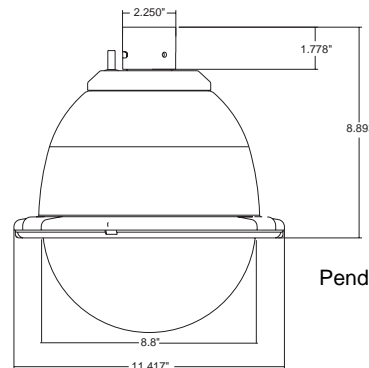
**NOTE:** Replace "C" with "T" in model number for tinted dome (1 F-stop light reduction)  
Replace "W" with "P" in model number for pendant mount

**OPTIONS/ACCESSORIES**

- PoEvator™** - lowering pole
- WM20G** - Gooseneck wall mount (Can be fitted to pendant mount versions only)
- ACA2** - Aluminum corner mount adapter
- APM3** - Aluminum existing pole mount adapter
- WM30G** - Aluminum parapet mount
- PRM30G** - Aluminum extended parapet mount
- CWKFD2** - 24 VAC cold weather kit for standard FusionDome™ equipped with heater/blower
- JFD8VNA** - Adapter kit for JVC's V-network cameras
- CFD8VC4A** - Adapter kit for Canon's VC-C4R video camera



Shown with optional WM20G gooseneck mount



Pendant mount version

Model	Unit Weight	Shipping Weight	Shipping Box Dim.
FD8	10 lbs	11 lbs	17 x 14 x 17
IFD8	10 lbs	11 lbs	17 x 14 x 17
PFD8	10 lbs	11 lbs	17 x 14 x 17

\* Shipping weights depend on box dimensions.

Spec#	Rev.Date	Catalog Section	VidFax#
FD8 -6067	0302	1a	S20
IFD8	0302	1b	S20
PFD8	0302	1a	S20

Due to our continued efforts to advance technology, product specifications are subject to change without notice.

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