

# The CAP-ENV-PD Series

The Toughest and Most Reliable Infrared and Ultrasound Window



The CAP-ENV-PD features a reinforced environmentally sealed door design while also providing a large visually clear infrared (IR) transmissive viewing area. The CAP-ENV-PD also comes equipped with a versatile port for ultrasound inspections – an ideal way to identify electrical faults. Initially developed for MV transformer and switchgear applications, the CAP-ENV-PD is a perfect combination solution for medium and high voltage applications where both IR and Ultrasound inspection is desired and can be provided with a pad lockable hasp.

## Integrated Ultrasound Inspection Port

Airborne Ultrasound can be used to detect signs of arcing, tracking and corona in electrical equipment. The built-in Ultrasound Inspection port in the CAP-ENV PD allows you to listen for these symptoms of potential problems in your critical assets and helps to insure the truest form of the emission can be recorded with minimal Diffraction it is more effective than scanning the seam on enclosed systems and for hermetically sealed cabinets.

## Unparalleled Field of View

Unlike the round infrared windows, the large format IRISS CAP series and custom infrared windows have a far superior field of view (FOV). The CAP-ENV-PD-24 series has over 6 times the FOV of a 4 inch diameter round window which gives the thermographer the ability of infinite viewing angles inside the switchgear.

## Features



Fixed & Stable Transmission



Arc Containment Tested



Durable and Rugged



E Sentry Connect Asset Management



Poly-View™ Optic



Anti-Fogging Optic



Reinforced Environmental Design



Customizable



Unconditional Lifetime Warranty



Proudly Made in the United States

## Specifications

Model	CAP-ENV-PD-4	CAP-ENV-PD-6	CAP-ENV-PD-12	CAP-ENV-PD-18	CAP-ENV-PD-24
<b>General Specifications</b>					
NEMA Rating	IP54 / NEMA 3R				
Voltage Range	Any				
Operating Temperature	-40°C (-40°F) to 273°C (523°F)				
Body and Cover Material	Powder Coated Stainless Steel				
Hardware	316 Stainless Steel				
Gaskets	UL 94 5VA TPE; -40°C (-40°F) to 273°C (523°F)				
<b>Dimension and Optic Specifications</b>					
Optic Material	UL 746 compliant, visual, UV and IR transmissive polymer; -40°C (-40°F) to 325°C (617°F)				
Optic Reinforcing Grill Material	Stainless Steel Reinforcing Grill (IP22/ IP2x Standard)				
Viewing Aperture Dimensions	L= 9.68 cm (3.81 in) H= 9.77 cm (3.85 in)	L= 9.1 cm (3.6 in) H= 15 cm (5.9 in)	L= 23.6 cm (9.3 in) H= 12.7 cm (5.0 in)	L= 39 cm (15.4 in) H= 15 cm (5.9 in)	L= 53 cm (20.9 in) H= 15 cm (5.9 in)
Overall Dimensions	L= 15.24 cm (6 in) H= 15.24 cm (6 in)	L= 16 cm (6.3 in) H= 21.8 cm (8.6 in)	L= 30.5 cm (12.0 in) H= 20.6 cm (8.1 in)	L= 45.7 cm (20.9 in) H= 21.8 cm (8.6 in)	L= 61 cm (24.0 in) H= 21.8 cm (8.6 in)
<b>Inspection Capabilities and Applications</b>					
Midwave IR	Yes				
Longwave IR	Yes				
Ultraviolet (UV)	Yes				
Ultrasound	Yes				
Visual Inspection	Yes				
Medium/ High Voltage Applications	Yes				
Outdoor Applications	Yes				
<b>Other</b>					
Warranty	Unconditional Lifetime Warranty				

## Design Standards

### UL & cUL:

- UL 50V & UL 50E (Pending)
- UL 746C & UL 746A-2012
- UL 1558 (Pending)

### IEEE Standards:

- IEEE C37.20.7 Type 2B
- IEEE C37 20.2.a.3.6

### IEC Compliance:

- IEC 62271-200
- IEC 60298 Appendix A
- IEC 60068-2-6:2007
- IEC 60068-2-3
- IEC 60068-2-78:2012

### Other:

- IP54/NEMA 3R



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