



The CAP-ENV Series

The Toughest and Most Reliable Infrared Window in The World

The CAP-ENV features a reinforced environmentally sealed door design while also providing the largest visually clear infrared (IR) transmissive viewing area available on the market today. The exclusive reinforced polymer system allows any thermography camera to monitor completely undisturbed assets inside energized electrical equipment in the visual, UV and shortwave, midwave and longwave IR spectra. The larger rectangular viewing area provides an unparalleled field of view when compared to traditional round IR windows. Constructed completely from stainless steel, the CAP-ENV series is recommended for outdoor applications.

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-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.

Fixed and Stable Transmission

Polymer based infrared windows are unaffected by the environmental and mechanical stresses that degrade the transmission of crystal based IR windows which are fragile and hygroscopic. The polymer IR window systems will maintain fixed and stable transmission (FAST) for the life of the installation ensuring that the temperature data collected through the IR window is accurate and reliable.

Features



Arc Containment Tested



E Sentry Connect Asset Management



Durable and Rugged



Anti-Fogging Optic



Poly-View™ Optic



Customizable



Reinforced Environmental Design



Proudly Made in the United States



Unconditional Lifetime Warranty

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Specifications

Model	CAP-ENV-4	CAP-ENV-6	CAP-ENV-12	CAP-ENV-18	CAP-ENV-24
General Specifications					
NEMA Rating	IP67 / NEMA 6				
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)				
Dimension and Optic Specifications					
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)
Inspection Capabilities and Applications					
Midwave IR	Yes				
Longwave IR	Yes				
Ultraviolet (UV)	Yes				
Visual Inspection	Yes				
Medium/ High Voltage Applications	Yes				
Outdoor Applications	Yes				
Other					
Warranty	Unconditional Lifetime Warranty				

Certifications

UL & cUL Certifications:

- UL 50V & UL 50E
- UL 746C & UL 746A-2012
- UL 1558
- UL 508A/ ANSI 508A

CSA Certifications:

- CSA C22.2 No. 14-13
- CSA C22.2 No. 14-10
- CSA C22.2 NO. 94-M91
- CSA C22.2 NO. 94.1-07
- CSA C22.2 NO. 94.2-07

IEEE Certifications:

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

IEC Certifications:

- IEC 62271-200
- IEC 60262271-200
- IEC 60298 Appendix A
- IEC 60068-2-6:2007
- IEC 60068-2-3
- IEC 60068-2-78:2012

Other:

- IP67/NEMA 6
- American Bureau of Shipping (ABS)
- DNV P261.1E Maritime, Vessel and Offshore
- Lloyds of London Type Approval



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iriss.com