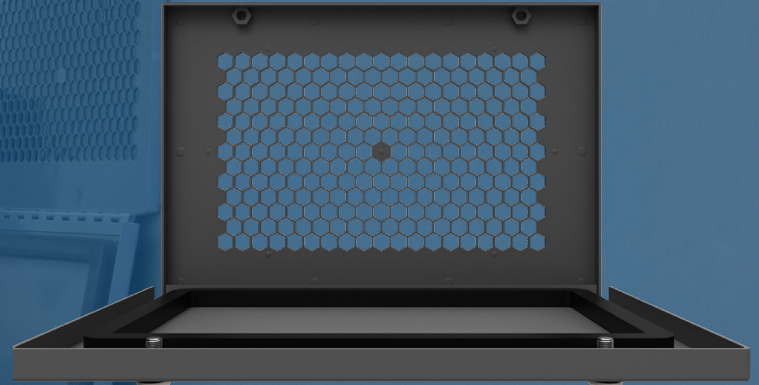


# The CAP-ENV Series

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

## Specifications

| Model   | CAP-ENV-4  | CAP-ENV-6                                      | CAP-ENV-12  | CAP-ENV-18  | CAP-ENV-24                                      |
|---|--|--|---|---|---|
| <b>General Specifications</b>                   |  |  |   |   |   |
| 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)  |  |   |   |   |
| <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<br>(3.81 in)<br>H= 9.77 cm<br>(3.85 in)                                       | L= 9.1 cm<br>(3.6 in)<br>H= 15 cm<br>(5.9 in)  | L= 23.6 cm<br>(9.3 in)<br>H= 12.7 cm<br>(5.0 in)  | L= 39 cm<br>(15.4 in)<br>H= 15 cm<br>(5.9 in)     | L= 53 cm<br>(20.9 in)<br>H= 15 cm<br>(5.9 in)   |
| Overall Dimensions                              | L= 15.24 cm<br>(6 in)<br>H= 15.24 cm<br>(6 in)   | L= 16 cm<br>(6.3 in)<br>H= 21.8 cm<br>(8.6 in) | L= 30.5 cm<br>(12.0 in)<br>H= 20.6 cm<br>(8.1 in) | L= 45.7 cm<br>(20.9 in)<br>H= 21.8 cm<br>(8.6 in) | L= 61 cm<br>(24.0 in)<br>H= 21.8 cm<br>(8.6 in) |
| <b>Inspection Capabilities and Applications</b> |  |  |   |   |   |
| Midwave IR                                      | Yes  |  |   |   |   |
| Longwave IR                                     | Yes  |  |   |   |   |
| Ultraviolet (UV)                                | Yes  |  |   |   |   |
| Visual Inspection                               | Yes  |  |   |   |   |
| Medium/ High Voltage Applications               | Yes  |  |   |   |   |
| Outdoor Applications                            | Yes  |  |   |   |   |
| <b>Other</b>                                    |  |  |   |   |   |
| 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 N0. 94-M91
- CSA C22.2 N0. 94.1-07
- CSA C22.2 N0. 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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