

# CAP-4-US Series

## A Multi-Technology Approach to Energized Electrical Inspections

The CAP-4 infrared window equipped with a versatile port for ultra sound inspections is the ideal way to identify electrical faults. Industrial applications require solutions that meet numerous criteria where safety and performance are of the utmost importance. To accommodate this demand, IRISS took their transparent, CAP-CT-4 and opaque, CAP-C-4, and added the benefits of ultrasound (US) inspection to the window.

The award-winning, CAP-4-US comes equipped with a square 4" IR window and an US port both on one easy-to-install panel. The viewing area of the CAP-4-US offers a 30% increase in FOV over round windows but also provides a method for accessing quality acoustics data that easily identifies potentially hazardous faults such as arcing, tracking and corona in electrical distribution systems and switchgear.

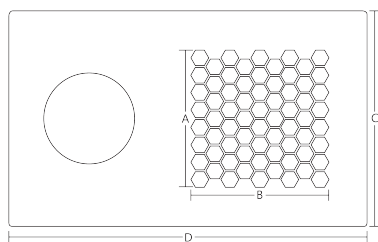


## Protected by our unconditional lifetime warranty

### Specifications

Materials	
Window Housing and Cover	Standard product constructed of aluminum; custom materials available
Port Housing, Grill and Cover	UL 94 5VA Nylon (switchgear-grade plastic); -40°C (-40°F) to 273°C (523°F); Easy-Grip™ stainless steel cover
Optic	UL 746 compliant, visual, UV and IR transmissive polymer; -40°C (-40°F) to 325°C (617°F)
Gaskets	UL 94 5VA TPE; -40°C (-40°F) to 273°C (523°F)
Hardware	316 stainless steel

Other	
Useful Temperature Rating	-40°C (-40°F) to 200°C (392°F)
Water and Dust Ingress	IP65 / NEMA 4x: closed and when in use, when closed (US port)



### Dimensions

Model	Window Dimensions	Overall Dimensions
CAP-C-4-US	A= 9.68 cm (3.81 in), B= 9.77 cm (3.85 in)	C= 15.24 cm (6 in), D= 25.4 cm (10 in)
CAP-CT-4-US	A= 9.68 cm (3.81 in), B= 9.77 cm (3.85 in)	C= 15.24 cm (6 in), D= 25.4 cm (10 in)

**Caution:** The dimensions listed above are not installation dimensions. Do NOT cut prior to receiving your IRISS window and installation template.

### CAP-4-US Series Features:

#### IR Window:

- Patented industrial-grade IR window
- Optional combined visual, UV and IR window or solely IR
- Durable, fully impact-resistant, pharmaceutical-grade optics
- Fixed And Stable Transmission (FAST)
- Proven compatibility with acids, alkalis, UV, moisture, humidity, vibration and high frequency noise
- Reinforcing grills comply with IP2x standard for safe maximum hole size and fail-safe design
- Fitting templates and instructions included

#### US Port:

- 1.2 cm (0.5 in) port opening complies with IP2x standard for safe maximum hole size
- Lockable cover maintains IP65/NEMA 4 seal when closed
- Housing manufactured using non-conductive, UL 94 switchgear-grade plastics, insulated to 30kV/mm
- Impact and flame resistant as per UL and IEEE standards
- Easy-Grip™ stainless steel cover

### Certifications:

- Certified by UL (USA) & cUL (Canada) to the following standards:
  - 50V
  - 50E
  - 746C: Impact and Flammability
  - 1558: Impact and Load Resistance
  - 508A; ANSI 508A
- IEEE C37 20.2.a.3.6: Impact and Load
- IP65 / NEMA 4x
- Lloyds of London Type Approval
- American Bureau of Shipping (ABS)
- BSI Quality ISO 9001 Certified System
- CSA C22.2 No. 14-13
- DNV (Det Norske Veritas) P261.1E Maritime, Vessel and Offshore Applications



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