

CAP-CT-4-US

A Multi-Technology Approach to Energized Electrical Inspections



Look & Listen Simultaneously

The built-in Ultrasound Inspection port in the CAP-4-US can be used to detect signs of arcing, tracking, and corona in electrical equipment with minimal Diffraction and are more effective than scanning the seam on enclosed systems.

Arc Containment Tested

The CAP-4-US Series was successfully tested to the IEC 62271-200 standard for arc containment on metal enclosed switchgear assemblies.

UL Listed

Having passed rigorous standards and testing, our inspection windows are UL Listed (E491496). This demonstrates our dedication to continued safety and security in the ever-changing world of electrical power and distribution.

The CAP-CT-4-US infrared window, equipped with a versatile port for ultrasound 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-CT-4-US, and added the benefits of ultrasound (US) inspection to the window. The award-winning CAP-CT-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-CT-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.



Specifications

Model	CAP-CT-4-US
General Specifications	
Overall Height	25.4 cm (10 in)
Overall Width	15.24 cm (6 in)
IP/ NEMA Environment Rating	IP65 / NEMA 4
Operating Temperature	-40°C (-40°F) to 273°C (523°F)
Body Material	Powder Coated 5052 Aluminum
Gasket Material	UL 94 5VA TPE; -40°C (-40°F) to 273°C (523°F)
Hardware Material	316 Stainless Steel
Voltage Range	Any
Automatically Grounded	Yes
Optic Specifications	
Viewing Aperture Height	9.77 cm (3.85 in)
Viewing Aperture Width	9.68 cm (3.81 in)
Optic Material	Poly-View™ UL 746 compliant, visual, UV and IR transmissive polymer; -40°C (-40°F) to 325°C (617°F)
Optic Reinforcing Grill Material	Aluminum Reinforcing Grill (IP22/ IP2x Standard)
Ultrasound Port Specifications	
Body and Cover Material	UL 94 5VA Nylon (switchgear-grade plastic); -40°C (-40°F) to 273°C (523°F); aluminum cover
Hardware	316 Stainless Steel
Gaskets	UL 94 5VA TPE; -40°C (-40°F) to 273°C (523°F)
Backplate Grill Material	UL 94 5VA Nylon (switchgear-grade plastic) Grill (IP22/ IP2x Standard)
Port Dimensions	1.2 cm (0.5 in) Ø
Overall Dimensions	6.5 cm (2.6 in) Ø
Inspection Capabilities and Applications	
Midwave IR and Longwave IR; Ultraviolet (UV); Ultrasound; Visual Inspection; Medium/High Voltage Applications	
Certifications	
UL Listed (E491496)	
Certified by UL (USA) & cUL (Canada) to the following standards: 50V, 50E, 756C: Impact and Flammability, 746C & 746A-2012, 1558: Impact and Load Resistance, 508A: ANSI 508A	
CSA C22.2 No. 14-13, C22.2 No. 14-10, C22.2 No. 94-M91, C22.2 No.94.1-07, C22.2 No. 94.2-07	
Lloyds of London Type Approval	
American Bureau of Shipping (ABS)	
DNV (Det Norske Veritas) P261.1E Maritime, Vessel and Offshore Applications	
IEEE C37 20.7 Type 2B, C37 20.2.a.3.6: Impact and Load	
IEC 62271-200, 60262271-200,60298 Appendix A, 60068-2-6:2007, 60068-2-3, 60068-2-78:2012	
Other	
Warranty	Unconditional Lifetime Warranty

*Caution: These dimensions are not installation dimensions. Do NOT cut prior to receiving your IRISS IR window and installation template. Specifications are subject to change without notice. For the most up-to-date specs, go to www.iriss.com

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