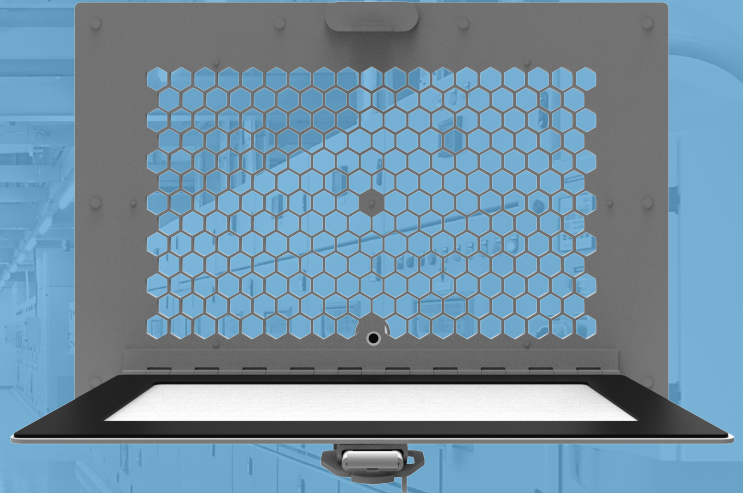


# CAP-CT-PDS Series

The Most Versatile & Reliable IR, Ultrasound  
& Partial Discharge Inspection Window



## Look & Listen Simultaneously

Quickly and safely perform closed-panel airborne Ultrasound inspections of electrical equipment including Switchgear, Switchboards, Panelboards, Transformers, Motor Control Centers and Process Equipment Panels.

## Arc Containment Tested

The CAP-CT 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 industrial-grade reinforced CAP-CT-PDS is a revolutionary inspection window. It combines the power of Thermal Imaging, Visual, UV, Ultrasound and Partial Discharge inspections. Industrial applications require solutions that meet numerous criteria where safety and performance are of the utmost importance. The exclusive pharmaceutical-grade 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 spectrums.



# Specifications

Model	CAP-CT-PDS-4	CAP-CT-PDS-6	CAP-CT-PDS-12	CAP-CT-PDS-18	CAP-CT-PDS-24
<b>General Specifications</b>					
Overall Height	15.24 cm (6 in)	21.8 cm (8.6 in)	20.6 cm (8.1 in)	21.8 cm (8.6 in)	21.8 cm (8.6 in)
Overall Width	15.24 cm (6 in)	16 cm (6.3 in)	30.5 cm (12.0 in)	45.7 cm (18 in)	61 cm (24.0 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				
<b>Optic Specifications</b>					
Viewing Aperture Height	9.77 cm (3.85 in)	15 cm (5.9 in)	12.7 cm (5.0 in)	14 cm (5.5 in)	15 cm (5.9 in)
Viewing Aperture Width	9.68 cm (3.81 in)	9.1 cm (3.6 in)	23.6 cm (9.3 in)	39 cm (15.4 in)	53 cm (20.9 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)				
<b>Ultrasonic Receiver Specifications</b>					
Center Frequency	40.0± 1.0KHz				
Bandwidth (-6dB)	2.5KHz				
Capacitance at 1KHz ±20%	2400 pF				
Max. Driving Voltage (cont.)	20 Vrms				
Total Beam Angle -6dB	50° typical				
Receiver Housing Material	Aluminum				
<b>Inspection Capabilities and Applications</b>					
Midwave IR and Longwave IR; Ultraviolet (UV); Ultrasound; Visual Inspection; Medium/High Voltage Applications					
<b>Certifications</b>					
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					
<b>Other</b>					
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](http://www.iriss.com)

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