

Overview

An evolutionary step in infrared (IR) windows, the VPT Series utilizes our exclusive Poly-View System™ technology to allow the use of any thermography camera to monitor energized electrical equipment. The world's only clear polymer IR window optic enables visual inspections, traditional IR inspections utilizing cameras across the entire IR spectrum, and allows for UV inspections to be performed with a corona camera. The VPT Series IR windows are industrial grade, with a patented reinforced grill that exceeds high voltage switchgear viewing pane standards.



Key Features



Environmentally Sealed Design

An additional layer of protection for both the inspection window and the equipment in environments with harsher conditions.



Durable and Rugged

Polymer-based IR windows are far more able to resist the mechanical stresses of electrical and mechanical applications.



Fixed & Stable Transmission

The polymer IR window systems will maintain fixed and stable transmission (FAST) for the life of the installation.



Patented Poly-View Optic

Our exclusive polymer technology is unaffected by environmental stresses, and enables visual, IR, and UV inspections.



UL Listed

Having passed rigorous standards and testing, our inspection windows are UL Listed (E 491496).



Unconditional Lifetime Warranty

The IRISS unconditional lifetime warranty is unique in the IR industry applying to both the IR window housing and optic.



Specifications

Model	VPT-50	VPT-75	VPT-100
General Specifications			
Overall Dimensions	9.1 cm (3.6 in) Ø	12.1 cm (4.8 in) Ø	15.1 cm (5.95 in) Ø
Overall Thickness	2.6 cm (1.0 in)	2.6 cm (1.0 in)	2.6 cm (1.0 in)
IP/ NEMA Environment Rating	IP67 / NEMA 6		
Operating Temperature	-40°C (-40°F) to 110°C (230°F)		
Body Material	UL 94 5VA Nylon (switchgear-grade plastic); -40°C (-40°F) to 273°C (523°F); aluminum cover		
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 Dimensions	5.1 cm (2.0 in) Ø	7.6 cm (3.0 in) Ø	10.2 cm (4.0 in) Ø
Optic Material	Poly-View™ UL 746 compliant, visual, UV and IR transmissive polymer; -40°C (-40°F) to 110°C (230°F)		
Optic Reinforcing Grill Material	Aluminum Reinforcing Grill (IP22/ IP2x Standard)		
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			
IEEE 60980-344:2020 Seismic Qualification			
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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