

Overview

The VPFC Series (Viewing Pane Fixed Crystal) IR windows are specially-coated to reduce the transmission drift due to moisture/ humidity. However, industrial users are strongly encouraged to investigate the VPT Series of industrial-grade IR windows which are specifically designed for stability in harsh industrial environments and have an unconditional lifetime warranty. The transmission rate characteristics of CaF2 are suitable for higher temperature applications, shortwave and midwave thermography, and for the visual spectrum. Medium to longwave transmission rates (7-14 micron) are typically between 40%-50% based on the infrared (IR) camera detector sensitivities at different wavelengths.



Key Features



Environmentally Sealed Design

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



Closed and Guarded Inspections

Easily perform closed and guarded NFPA 70E compliant inspections while also eliminating exposure to live electrical hazards.



Any Camera - Any Task

The IRISS Crystal optics work with all ranges of Infrared, Ultraviolet and Visual Inspection Cameras.



UL Listed

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



American Made, Globally Trusted

100% conceived, designed, and built on American soil, embodying the innovation, and quality, of American manufacturing.



Limited Lifetime Warranty

The VPFC Series is protected by the IRISS limited lifetime warranty against manufacturer defects.



Specifications

Model	VPFC-50	VPFC-75	VPFC-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 273°C (523°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	Calcium Fluoride Crystal (CaF2); -100°C (-148°F) to 1400°C (2555°F)		
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	Limited 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

North America (HQ)
+1 (941) 907-9128
info@iriss.com

LATAM
+1 (941) 704-4445
info-latam@iriss.com

EMEA
+44 (0) 843-507-0099
info-emea@iriss.com

APAC
+1 (941) 704-4445
info-apac@iriss.com

UK/Ireland
+44 (0) 843 507 0099
info-ukir@iriss.com

India
+91-22-4969-0921
info-india@iriss.com

QFZ
(+974) 4002 4420
info-mena@iriss.com

