

VPFR Industrial-Grade Infrared Inspection Viewing Panes

Save Time, Save Money, Stay Safe

Industrial-grade VPFR series infrared windows from IRISS will enable thermographers to survey critical electrical applications more efficiently and more safely than ever before.

NFPA standards recommend infrared inspection under fully energized conditions; but PPE requirements and panel cover removal and reinstallation are time-consuming and therefore costly. Use of the VPFR nearly eliminates the risks associated with infrared electrical inspection by providing companies with a non-invasive, closed-panel inspection methodology. Thermographers inspecting through the window are never exposed to energized conductors and circuit parts, and not engaged in risk-increasing behaviors (as outlined in the 130.7(C)(9) of NFPA 70E). Therefore, the elevated levels of PPE prescribed by 70E for invasive surveys are not required when utilizing the VPFR, thereby minimizing survey time while maximizing safety.



Protected by an Unconditional Lifetime Warranty.

Specifications

Materials	
Window housing and cover	UL 94 5VA Nylon ("switchgear-grade plastic"); -40°C (-40°F) to 273°C (523°F)
Optic	UL 746C certified, IR transmissive polymer; -40°C (-40°F) to 325°C (617°F)
Reinforcing grill	Aluminum coated with UL 94 5VA Nylon; -40°C (-40°F) to 273°C (523°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 4: closed and when in use

Dimensions

Model	Body diameter	Viewing pane diameter	Assembly thickness
VPFR-50	8.3 cm (3.3 in)	5 cm (2 in)	1.8 cm (0.7 in)
VPFR-75	11.2 cm (4.4 in)	7.5 cm (3 in)	1.8 cm (0.7 in)
VPFR-100	14.5 cm (5.7 in)	10 cm (4 in)	2.0 cm (0.8 in)

Ordering information

Order #	Description	Price
VPFR-50	Industrial-grade infrared window: 50 mm (2 in) diameter viewing pane	Call for Pricing
VPFR-75	Industrial-grade infrared window: 75 mm (3 in) diameter viewing pane	Call for Pricing
VPFR-100	Industrial-grade infrared window: 100 mm (4 in) diameter viewing pane	Call for Pricing

Prices are US List and are subject to change without notice; quantity breaks start at 25 units.

VPFR Features

- Industry's ONLY impact resistant IR window: Patented reinforced optic exceeds high-voltage switchgear viewing pane standards.
- Stable transmission rates: Industrial-grade materials unconditionally warranted against transmission loss for accurate qualitative and quantitative analysis.
- Born out of necessity: Created by Level III Thermographer as solution to hazards and shortcomings of traditional techniques / materials.
- Manufactured from non-conductive UL94 plastics insulated to 30kV/mm.

Certifications

- UL 50V
- IEEE C37.20.2(a.3.6): Impact and load
- UL 746C: Impact and flammability
- UL 508A; ANSI UL 508A
- IP65 / NEMA 4
- Lloyds of London Type Approval

