IRISS Inc.



1. Product Name

■ VPT Platinum Series Infrared Inspection Window

2. Manufacturer

IRISS Inc.

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3. Product Description

VPT Platinum Series Infrared Inspection Windows

The VPT Platinum Series are the largest round construction visually clear infrared (IR) and Ultraviolet (UV) transmissive viewing window available. The exclusive patented industrial-grade, reinforced Poly-View System™ polymer can be used by any make or model of infrared and ultraviolet camera.

The VPT Platinum Series are available in three standard sizes and are supplied with easy grip stainless steel covers.

Basic Use

The essential element for electrical safety is to protect personnel by ensuring that all equipment is in an electrically safe condition before any maintenance tasks are commenced. The VPT Platinum Series are primarily used as viewing windows that allow essential maintenance tasks such as infrared, ultraviolet and visual inspections of electrical equipment to be completed whilst the energized equipment remains closed and in a safe condition ensuring workers are never exposed to the dangers of arc flash or electrocution.

Materials and Finishes

- The window housings are constructed of UL945VA and UL746C rated Nylon 6 materials and covers are constructed of Stainless Steel 304 2B Stainless steel
- The VPT gasket material is Evoprene G-618
- Units are supplied with 316 stainless steel fixing hardware

Infrared lens material is an aluminum reinforced visual, UV and IR transmissive polymer complying with UL and CSA requirements for infrared inspection windows.



Benefits

- Durable
- Impact resistant to IEEE visual Viewing pane standards for switchgear above 1kV
- IP2X Failsafe design
- Fixed and stable transmission (FAST)
- The largest visually clear IR transmissive round viewing windows available
- The exclusive industrial-grade, reinforced Poly-View System polymer allows any Model of IR and UV camera to monitor completely undisturbed energized components inside electrical equipment
- Can be used both indoors and outdoors
- Water and dust ingress complies with IEC IP65, IP2X and NEMA Type 1, 2, 3, 3R, 4, 5, 12, 12K and 13

Product Limitations

Do not use in temperatures less than -40 degrees F (-40 degrees C) or greater than 617 degrees F (325 degrees C).

Dimensions

See Table 1.





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4. Technical Data

Applicable Standards American Bureau of Shipping [ABS] Approved

Certificate No. 11-HS807296-PDA

American Society of Testing and Materials (ASTM)

■ **ASTM F2281-2004(2012)** Standard Specification for Stainless Steel and Nickel Alloy Bolts, Hex Cap Screws and Studs, for Heat Resistance and High Temperature Applications

Canadian Standards Association (CSA)

- CSA-C22.2 No. 14-13 Industrial Control Equipment 12th Ed.
- CSA-C22.2 No. 94-M91 Special Purpose Enclosures 4th Ed.
- CSA-C22.2 No. 94.1-07 Enclosures for Electrical Equipment
- CSA-C22.2 No. 94.2-07 Enclosures for Electrical Equipment

Det Norske Veritas (DNV) GL

■ **P261.1E** Maritime, Vessel and Offshore Applications Approved

Institute of Electrical and Electronics Engineers (IEEE)

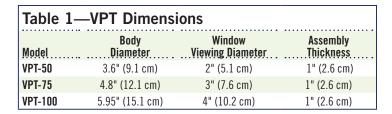
■ IEEE C37.20.2.a.3.6 mandatory impact and load test requirements for visual viewing panes for Metal-Clad and Station Type Cubicle Switchgear

International Electrochemical Commission (IEC, IP Code)

- **IP65/NEMA 4** Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment
- IP22/IP2X Minimum requirements for the design of electrical accessories for indoor use
- ANSI/IEC 60529-2004 (R2011) Degrees of Protection Provided by Enclosures (IP Code 65)

International Standards Organization (ISO)

■ ISO 9001:2008 Certificate No. 74 300 3797



Lloyd's of London

Certificate No. 05/00026

National Electrical Manufacturers Association (NEMA)

- Type 1
- Type 3: Viewport may be marked Raintight
- Type 3R: Viewport may be marked Rainproof
- Type 2, 5, 12, 12K and 13: Viewport may be marked driptight or Dusttight.

Ratings above are when installed on a flat surface of a suitably rated enclosure.

Underwriter's Laboratories (UL) and Canadian Underwriters Laboratories (cUL)

- **UL 50V** Infrared Viewports
- UL 50E Enclosures for Electrical Equipment, Environmental Considerations
- **UL 746C** Polymeric Materials Use in Electrical Equipment Evaluations
- **UL 1558** Metal-Enclosed Low-Voltage Power Circuit Breaker Switchgear
- UL 508A/ANSI UL 508A Industrial Control Panels
- **UL 94-2013** Tests for Flammability of Plastic Materials for Parts in Devices and Appliances
- UL 746A-2012 Polymeric Materials Short Term Property Evaluations

Environmental Considerations

IRISS Inc. uses recycled aluminum in the production of VPT Series frames and recycled packaging.

5. Installation

- Install VPT Series visual inspection window in accordance with the VPT Series Installation Guide
- Once an installation location has been selected, apply the supplied cutting template to the side of the panel where the window is to be fitted
- Using a center punch, mark all the fixing holes
- Use a ⁹/₃₂ inch (7 mm) drill bit to drill the center punched holes and if using a nibbler, drill a pilot hole along line
- Cut appropriate sized hole to meet project requirements and VPT model being installed
- De-burr cut edges and peel away the remaining portion of the cutting template





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- Treat all bare metal with a protective anti-corrosion coating before installing the VPT unit
- Place the body of the VPT in the panel hole and secure with 7/16 inch nuts
- Tighten nuts in accordance with the VPT Series Installation Guide

Delivery, Storage and Handling

Deliver VPT Platinum Series visual inspection window and accessories in manufacturer's original packaging with project identification information clearly shown. Instruction for storage and handling will be provided upon shipment.

6. Availability and Cost

Availability

Standard stock sizes and materials are generally available within five days. Custom products are delivered within 10–15 business days. Contact IRISS Inc. directly for delivery times for products using custom materials or sizes.

Cost

Contact IRISS Inc. directly for material cost.

7. Warranty

Unconditional lifetime warranty for the period of the installation applies not only to the workmanship of the window housing but also applies to the durability and stability of the optic in the proposed environment.

8. Maintenance

Regular cleaning to ensure glazed area is clear. Little maintenance is required if the door is kept closed.

9. Technical Services

As well as offering the VPT Series in standard stock materials, IRISS Inc. will construct view windows or ports with custom materials to meet clients' needs.

10. Filing Systems

- CMD
- Additional product information is available from the manufacturer upon request ~



