

FLIR IRW-Series

FLIR IRW-Series IR Inspection Windows

Opening electrical cabinets to perform thermal and visual inspections of live components is dangerous work, exposing you to the risk of a hazardous arc flash incident. Now you can put the added safety of new FLIR IR Windows between you and energized equipment to better protect yourself and eliminate the need for opening enclosures.



Easy to install

Much easier to install and use than other brands, FLIR IR Windows help you work faster with greater confidence.

All FLIR IR Windows feature a secure, permanently-hinged cover that opens easily with one hand, which means there's nothing to remove, drop, mix up, or lose. FLIR's broadband crystal allows cameras to capture visible light pictures as well as thermal images and lets LED and laser illumination pass straight through for clearer visual assessments.





FLIR IR-Windows features



Easy Installation

FLIR IR Windows install quickly and securely using the same design as common conduit connections:

- Only one hole to create for each window
- One simple PIRma-Lock™ ring nut to tighten
- Uses standard US punch tools for hole knockouts



PIRma-Lock™ Reliability

Tried and true locknut technology makes FLIR's locking ring an IR window first:

- Teeth lock tight to the inside of the panel
- Automatically grounds metal components
- No screw holes required that might later strip out



Quick Access Hinged Cover

Simple thumb screw releases the permanently-hinged IR window cover:

- Easy, flip-open hatch for faster scans
- Prevents dropping, mix-ups, and loss
- Inside label for permanent identification



Broadband Crystal IR Window

Lens encased in rugged, anodized aluminum frame allows indoor & outdoor scans:

- Transmits short, mid and longwave IR images
- Supports visual inspections and fusion features
- Lets laser pointers and illumination shine through



Greater Productivity and ROI

Significantly reduces inspection time for more efficient assessments within NFPA 70E guidelines:

- Requires only one person instead of three
- Eliminates need for cumbersome PPE
- Helps reduce vast majority of arc flash triggers



FLIR Integrity

FLIR backs IRW-Series windows with comprehensive testing and a limited lifetime warranty:

- Meets relevant UL, CSA, IEC, and IEEE standards and ratings
- Tested by reputable agencies such as UL, KEMA, and TUV
- Tested samples withstood arcs, vibration, and extreme humidity
- Limited Lifetime Warranty against manufacturer defects



One hole to cut.



Easy placement.



Single PIRma-Lock™ ring nut.

FLIR IRW-series

Technical specifications



Product specific



| Size Specifications | FLIR IR Windows 2" - IRW-2C | FLIR IR Windows 3" - IRW-3C | FLIR IR Windows 4" - IRW-4C |
|---|-----------------------------|-----------------------------|-----------------------------|
| Overall Height | 85.5mm | 107.4mm | 136.5mm |
| Overall Width | 73mm | 99mm | 127mm |
| Overall Thickness | 25.5mm | 26.86mm | 29.25mm |
| Required Actual Hole Diameter (Nominal) | 60.3mm | 88.9mm | 114.3mm |
| Greenlee Punch | 76BB | 739BB | 742BB |
| Recommended Max Panel Thickness | 3.2mm | 3.2mm | 3.2mm |
| Optic Specifications | | | |
| Optic Diameter | 50mm | 75mm | 95mm |
| Viewing Aperture Diameter | 45mm | 69mm | 89mm |
| Viewing Aperture Area | 1590mm ² | 3739mm ² | 6221mm ² |
| Optic Maximum Temperature | 1355.6°C | 1355.6°C | 1355.6°C |
| Ratings & Testing | | | |
| Maximum Pullout Strength | 657 kg | 1655 kg | 1678 kg |

General

| General Specifications | |
|---|--|
| NEMA Environment Type | Type 4/12 (outdoor/indoor) |
| Voltage Range | Any |
| Automatically Grounded | Yes |
| Maximum Operating Temperature | 260°C |
| Body Material | Anodized Aluminum |
| Gasket Material | Silicone |
| Optic material | Calcium Fluoride |
| Hardware Material | Steel |
| Compatible with All FLIR Cameras | Yes |
| PIRma-Lock Installation System | Yes |
| Cover and Fastener Permanently Attached | Yes |
| Single-hole Installation | Yes |
| Thumb Screw and Safety Screw Included | Yes |
| Broadband IR -- Short-, Mid-, & Longwave | Yes |
| Visible Light Spectrum | Yes |
| Picture-in-Picture & Fusion Image Blending | Yes |
| Ratings & Testing | |
| UL Component Recognition (UL 50V) | Yes |
| UL 50 / NEMA Environment Rating | Type 4/12 |
| Arc Flash Testing, IEC 62271-200 (KEMA) | 5kV, 63kA for 30 Cycles at 60Hz |
| IP Rating, IEC 60529 (TUV) | IP67 |
| Vibration Testing, IEC 60068-2-6 (TUV) | 100 m/s ² Vibration Withstand |
| Humidity Testing, IEC 60068-2-3 (TUV) | Extreme Humidity Withstand |
| Mechanical Testing, ANSI/IEEE C37.20.2 section A3.6 (TUV) | Impact and Load Resistant Cover |
| CSA Certification | Yes |
| Other | |
| Warranty | Limited Lifetime Warranty Against Manufacturer Defects |