



FOR SAFER, MORE EFFICIENT ELECTRICAL IR INSPECTIONS

You put your life at risk every time you inspect live electric components - but you don't have to. FLIR's IRW-Series inspection windows add a protective barrier between you and energized equipment, meaning you don't need to worry about arc flash accidents.

There's no need to open electrical cabinets or pile on layers of protection. These IR windows are easy to install, easy to use, and will help you work with greater confidence. You'll perform inspections more efficiently and reduce the threat of arc flash injury, all while staying in compliance with NFPA 70E requirements.

FLIR IRW-Series windows feature a permanent hinged cover that flips open easily, so there's nothing to drop, mix-up, or lose. Choose the standard anti-corrosion anodized aluminum frame, or if there are mixed-metal concerns, opt for durable stainless steel. This will help prevent galvanic corrosion from contact between the stainless steel cabinet and window frame.

IR WINDOW CERTIFICATIONS

| Certification Type | |
|--|----------------------------------|
| Underwriters Laboratories Recognition (UL 50V) | Yes |
| NEMA Environment Rating | Type 4/12 |
| CSA and CSAus Model Certification | Yes |
| Arc Flash Testing (KEMA)* | 5kV, 63kA for 30 cycles at 60 Hz |
| TUV Water/Dust Ingress, Vibration, Humidity, and Impact Standards* | Yes |



Easy Installation









1.888.610.7664



Easy Installation, PIRma-Lock™ Reliability

- Uses standard US punch tools for hole knockouts
- Automatically grounds metal components
- PIRma-Lock™ ring nut locks window tight inside the panel

Quick Access Hinged Cover

- Simple flip-open hatch secured with thumb screw releases
- Permanently-hinged cover prevents dropping, mix-ups, and loss
- Inside label for permanent identification

Broadband Crystal IR Window

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

Greater Productivity and ROI

- Cuts inspection time by requiring one person instead of three
- Can reduce or eliminate need for cumbersome PPE
- · Helps reduce vast majority of arc flash triggers

Stainless Steel Line

- Avoids contact between dissimilar metals
- Increased resistance to corrosion
- More durable for harsh or outdoor environments

FLIR IR Window Field of View

 $FOV = D \times A$

Where FOV is the field of view

D is the cabinet depth measured from the window to the target A is the multiplication factor from the following table:

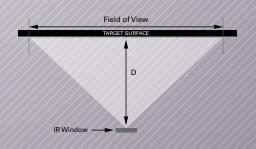
| IRW-Series Model | IRW-2C or IRW-2S | IRW-3C or IRW-3S | IRW-4C or IRW-4S |
|------------------------------|------------------|------------------|------------------|
| Tilting any FLIR camera lens | 2.4 | 2.7 | 3.2 |



Using a 3" (IRW-3C) window with a lens 12" from the target:

 $FOV = 12" \times 2.7$

FOV = 32.4"





SPECIFICATIONS

| Model | IRW-2C/2S | IRW-3C/3S | IRW-4C/4S |
|--|----------------------------------|--------------------------------|--------------------------------|
| Size | 2" Window | 3" Window | 4" Window |
| NEMA Environment Type | Type 4/12 (outdoor/indoor) | Type 4/12 (outdoor/indoor) | Type 4/12 (outdoor/indoor) |
| Voltage Range | Any | Any | Any |
| Automatically Grounded | Yes | Yes | Yes |
| Maximum Operating Temperature | 500°F/260°C | 500°F/260°C | 500°F/260°C |
| Body Material – IRW-xC Type | Anodized aluminum | Anodized aluminum | Anodized aluminum |
| Body Material – IRW-xS Type | AISI grade 316 stainless steel | AISI grade 316 stainless steel | AISI grade 316 stainless steel |
| Gasket Material | Silicone | Silicone | Silicone |
| Hardware Material | Steel | Steel | Steel |
| Size Specifications | | | |
| Overall Height | 85.5 mm (3.36") | 107.4 mm (4.22") | 136.5 mm (5.37") |
| Overall Width | 73 mm (2.87") | 99 mm (3.89") | 127 mm (5.01") |
| Overall Thickness | 25.5 mm (1.00") | 26.86 mm (1.05") | 29.25 mm (1.15") |
| Required Actual Hole Diameter (Nominal) | 60.3 mm (2-3/8") | 88.9 mm (3-1/2") | 114.3 mm (4-1/2") |
| Greenlee Punch | 76BB | 739BB | 742BB |
| Recommended Max Panel Thickness | 3.2 mm (1/8") | 3.2 mm (1/8") | 3.2 mm (1/8") |
| Optic Specifications | | | |
| Optic Diameter | 50 mm (1.97") | 75 mm (2.95") | 95 mm (3.74") |
| Viewing Aperture Diameter | 45 mm (1.77") | 69 mm (2.71") | 89 mm (3.50") |
| Viewing Aperture Area | 1590 mm² (2.46 in²) | 3739 mm² (5.79 in²) | 6221 mm² (9.64 in²) |
| Optic Maximum Temperature | 1355.6°C (2474°F) | 1355.6°C (2474°F) | 1355.6°C (2474°F) |
| Ratings and Testing | | | |
| UL Component Recognition (UL 50V) | Yes | Yes | Yes |
| UL 50 / NEMA Environment Rating | Type 4/12 | Type 4/12 | Type 4/12 |
| Arc Flash Testing, IEC 62271-200 (KEMA)* | 5kV, 63kA for 30 cycles at 60 Hz | | |
| IP Rating, IEC 60529 (TUV)* | IP67 | IP67 | 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 | | |
| Maximum Pullout Strength | 657 kg (1450 lbs) | 1655 kg (3650 lbs) | 1678 kg (3700 lbs) |
| CSA Certification, C22.2 No. 14 or 508 | Yes | Yes | Yes |

^{*}Test results valid for IRW-2C, IRW-3C, and IRW-4C only.

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