

SATIR IR Window

Durable and Versatile IR Window

Enhance your electrical and mechanical inspections with our high-performance **IR Window**. Built for durability and efficiency, this solution allows for safe and reliable thermal imaging and visual inspections across various environments.

Infrared windows are engineered to withstand harsh environments without compromising performance. Made from high-quality materials, they provide a durable barrier that allows inspectors to monitor equipment without direct contact.

This not only enhances safety by reducing exposure to live electrical components but also significantly cuts down on downtime. Installing the IR window within the electrical cabinet means inspection can take place in real-time without the cabinet being opened, and where arc flashing has accrued in some cases

Key Features:

- **Versatile Compatibility:** Works with all thermal cameras
- **Durable Construction:** Made with robust **aluminium alloy** for long-lasting performance.
- **Wide Operating Temperature Range:** Withstands temperatures from **-40°C to +232°C**, with intermittent use up to **+260°C**.
- **Reliable in Harsh Environments:** Rated **IP68** and **arc-tested** for safety under high-voltage conditions (12kV, 40kA, 0.8s).
- **User-Friendly Installation:** Single-hole installation
- **Barium Fluoride Optic:** Delivers exceptional thermal transparency for precise diagnostics.
- **Multiple Sizes:** Available in **95mm, 75mm, and 70mm** diameters to suit different needs.

General Specifications			
Diameter	95mm	75mm	70mm
Body Material	Aluminium Alloy	Aluminium Alloy	Aluminium Alloy
Voltage range	Any	Any	Any
NEMA environment type	Type 4/12 (indoor/outdoor)	Type 4/12 (indoor/outdoor)	Type 4/12 (indoor/outdoor)
Optic	Barium Fluoride	Barium Fluoride	Barium Fluoride
Operating temperature	-40°C to +232°C +260°C intermittent	-40°C to +232°C +260°C intermittent	-40°C to +232°C +260°C intermittent
Compatible with all cameras	Yes	Yes	Yes
Jam nut locking system	Yes	Yes	Yes
Cover and fastener permanently attached	Yes	Yes	Yes
Single-hole install	Yes	Yes	Yes
Hand turn and security key door latch options	Yes	Yes	Yes
Visual inspection and fusion capable	Yes	Yes	Yes
Short/Mid/Long-wave IR and UV capable	Yes	Yes	Yes
Ratings and Testing			
Arc-tested	12kV 40kA 0.8s	12kV 40kA 0.8s	12kV 40kA 0.8s
IP rating	IP68	IP68	IP68
Install			
Actual mounting hole diameter required	114mm	95mm	89mm
Optics			
Viewing aperture diameter	95mm	75mm	70mm
Viewing aperture area	7088.22 mm ²	4417.86 mm ²	3848.45mm ²
Thickness	3mm	3mm	3mm

Applications:

- **Electrical Maintenance:** Inspect high-voltage equipment safely and efficiently.
- **Industrial Systems:** Monitor critical components in manufacturing and processing plants.
- **Building Systems:** Conduct visual and thermal inspections of HVAC, plumbing, and other infrastructure.