Visually Clear IR Window for Indoor Applications



Rectangular Indoor IR Window

4” | 6” | 12” | 18” | 24”

Durable and rugged

Polymer-based IR windows are far more resistant to the mechanical stresses experienced on high voltage electrical equipment.

Arc containment tested

This series is successfully tested for arc containment on metal enclosed switchgear assemblies.

UL listed

These windows have passed rigorous standards and testing, and are UL Listed (E491496).

An unparalleled field of view

The aluminum rectangular indoor IR window series has the largest clear IR transmissive viewing area available on the market today. The reinforced polymer allows any thermal imager to monitor energized electrical assets across the entire visual and IR spectra. The larger rectangular viewing area provides an unparalleled field of view. This series features a locking cover that protects against impacts, flying debris, and dust. The rectangular indoor IR window is recommended for all indoor applications.





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RECTANGULAR INDOOR IR WINDOW

Size	4”	6”	12”	18”	24”
DIMENSIONS					
Overall Width	6.00 in	6.30 in	12.00 in	18.00 in	24.00 in
Overall Height	6.00 in	8.56 in	8.09 in	8.56 in	8.56 in
VIEWING					
Viewing Width	3.81 in	3.81 in	9.13 in	15.41 in	21.20 in
Viewing Height	3.85 in	6.36 in	5.52 in	5.52 in	5.52 in

OPTICAL SPECIFICATIONS

Optic Material	Poly-View™ UL 746 compliant, visual, UV and IR transmissive polymer; -40°C (-40°F) to 325°C (617°F)
Reinforcing Grill	Aluminum Reinforcing Grill (IP22/ IP2x Standard)

GENERAL SPECIFICATIONS

IP / NEMA Environment Rating	IP65 / NEMA 4
Operating Temperature	-40°C (-40°F) to 273°C (523°F)
Body Material	Powder Coated 5052 Aluminum
Gasket Material	UL 94 5VA TPE; -40°C (-40°F) to 273°C (523°F)
Hardware Material	316 Stainless Steel
Voltage Range	Any
Automatically Grounded	Yes

INSPECTION CAPABILITIES AND APPLICATIONS

Midwave IR and Longwave IR; Ultraviolet (UV); Ultrasound; Visual Inspection; Medium/High Voltage Applications

CERTIFICATIONS

UL Listed (E491496)
UL (USA) and cUL (Canada) to the following standards: 50V, 50E, 756C: Impact and Flammability, 746C & 746A-2012, 1558: Impact and Load Resistance, 508A: ANSI 508A
CSA C22.2 No. 14-13, C22.2 No 14-10, C22.2 No 94-M91, C22.2 No. 94.1-07, C22.2 No 94.2-07
Lloyds of London Type Approval
American Bureau of Shipping (ABS)
DNV (Det Norske Veritas) P261.1E Maritime, Vessel and Offshore Applications
IEEE C37 20.7 Type 2B, C37 20.2.a.3.6: Impact and Load
IEC 62271-200, 60262271-200, 60298 Appendix A, 60068-2-6:2007, 60068-2-3, 60068-2-78:2012

WARRANTY

Unconditional Lifetime Warranty

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CAUTION IMPORTANT NOTE

The above dimensions are not installation measurements. Do NOT cut equipment prior to receiving your IR window and installation template.

MADE IN USA

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tel. 330.630.7000

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The Toughest, Most Reliable Infrared and Ultrasound Window



Rectangular Outdoor IR Window w/PD Port

12” | 18” | 24”

Look & Listen Simultaneously

The built-in ultrasound inspection port can be used with minimal diffraction and is more effective than scanning the seam on enclosed systems.

Arc Containment Tested

Each inspection window was successfully tested to the IEC 62271-200 standard for arc containment in metal-enclosed switchgear assemblies.

UL listed

This series of inspection windows is UL Listed (E491496), adding safety and security for inspection technicians and maintenance personnel.

One Window. Two Powerful Inspections

The Rectangle Outdoor IR Window w/ PD Port combines the power of thermal imaging with visual and partial discharge inspections in one component. It features an environmentally sealed door design with a large reinforced IR polymer that allows any thermal imager to monitor equipment across the entire visual and IR spectra. It also allows for the monitoring of partial discharge activity through the integrated and versatile ultrasound port. Available in 12”, 18” and 24” size options, these rugged and durable units are suitable for electrical applications where both IR and ultrasound inspections are needed.





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RECTANGULAR OUTDOOR IR WINDOW W PD PORT

Size	12”	18”	24”
DIMENSIONS			
Overall Width	12.31 in	18.51 in	24.31 in
Overall Height	8.49 in	9.13 in	8.96 in
VIEWING			
Viewing Width	9.13 in	15.41 in	20.20 in
Viewing Height	5.52 in	5.52 in	5.52 in

OPTICAL SPECIFICATIONS

Optic Material	Poly-View™ UL 746 compliant, visual, UV and IR transmissive polymer; -40°C (-40°F) to 325°C (617°F)
Reinforcing Grill	Stainless Steel Reinforcing Grill (IP22/ IP2x Standard)

GENERAL SPECIFICATIONS

IP / NEMA Environment Rating	IP67 / NEMA 6
Operating Temperature	-40°C (-40°F) to 273°C (523°F)
Body Material	Powder Coated Stainless Steel
Gasket Material	UL 94 5VA TPE; -40°C (-40°F) to 273°C (523°F)
Hardware Material	316 Stainless Steel
Voltage Range	Any
Automatically Grounded	Yes

INSPECTION CAPABILITIES AND APPLICATIONS

Midwave IR and Longwave IR; Ultraviolet (UV); Ultrasound; Visual Inspection; Medium/High Voltage Applications

CERTIFICATIONS

UL Listed (E491496)
UL (USA) and cUL (Canada) to the following standards: 50V, 50E, 756C: Impact and Flammability, 746C & 746A-2012, 1558: Impact and Load Resistance, 508A: ANSI 508A
CSA C22.2 No. 14-13, C22.2 No. 14-10, C22.2 No. 94-M91, C22.2 No. 94.1-07, C22.2 No. 94.2-07
Lloyds of London Type Approval
American Bureau of Shipping (ABS)
DNV (Det Norske Veritas) P261.1E Maritime, Vessel and Offshore Applications
IEEE C37 20.7 Type 2B, C37 20.2.a.3.6: Impact and Load
IEC 62271-200, 60262271-200, 60298 Appendix A, 60068-2-6:2007, 60068-2-3, 60068-2-78:2012

WARRANTY

Unconditional Lifetime Warranty

CAUTION IMPORTANT NOTE

The above dimensions are not installation measurements. Do NOT cut equipment prior to receiving your IR window and installation template. For the most up-to-date specs, contact SDMyers.

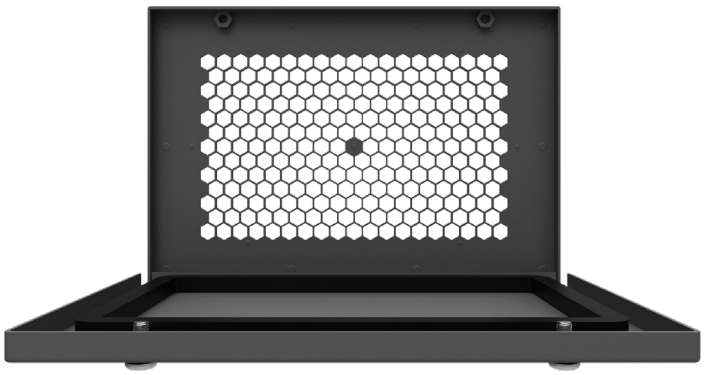
MADE IN USA

SDMyers ACTS 4:12

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The Toughest and Most Reliable IR Window in the World



Rectangular Outdoor IR Window

4” | 6” | 12” | 18” | 24”

Stronger equipment

Polymer-based IR windows are far more resistant to the mechanical stresses experienced on high voltage electrical equipment.

Arc containment tested

This series is successfully tested for arc containment on metal enclosed switchgear assemblies.

UL listed

These windows have passed rigorous standards and testing, and are UL Listed (E491496).

Tough for outdoor applications

The stainless steel rectangular outdoor IR window features a reinforced, environmentally sealed door design and provides the largest clear IR-transmissive viewing area available on the market today. The reinforced polymer allows any thermal imager to monitor energized electrical assets across the entire visual and IR spectra. This series features a tamper-resistant cover that protects against impacts, flying debris, dust, and water intrusion and is therefore recommended for outdoor applications.





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RECTANGULAR OUTDOOR IR WINDOW

Part Number	4”	6”	12”	18”	24”
DIMENSIONS					
Overall Width	6.31 in	6.61 in	12.31 in	18.51 in	24.31 in
Overall Height	6.40 in	8.96 in	8.49 in	9.13 in	8.96 in
VIEWING					
Viewing Width	3.81 in	3.81 in	9.13 in	15.41 in	21.20 in
Viewing Height	3.85 in	6.36 in	5.52 in	5.52 in	5.52 in

OPTICAL SPECIFICATIONS

Optic Material	Poly-View™ UL 746 compliant, visual, UV and IR transmissive polymer; -40°C (-40°F) to 325°C (617°F)
Reinforcing Grill	Stainless Steel Reinforcing Grill (IP22/ IP2x Standard)

GENERAL SPECIFICATIONS

IP / NEMA Envoronment Rating	IP65 / NEMA 4
Operating Temperature	-40°C (-40°F) to 273°C (523°F)
Body Material	Powder Coated Stainless Steel
Gasket Material	UL 94 5VA TPE; -40°C (-40°F) to 273°C (523°F)
Hardware Material	316 Stainless Steel
Voltage Range	Any
Automatically Grounded	Yes

INSPECTION CAPABILITIES AND APPLICATIONS

Midwave IR and Longwave IR; Ultraviolet (UV); Ultrasound; Visual Inspection; Medium/High Voltage Applications

CERTIFICATIONS

UL Listed (E491496)
UL (USA) and cUL (Canada) to the following standards: 50V, 50E, 756C: Impact and Flammability, 746C & 746A-2012, 1558: Impact and Load Resistance, 508A: ANSI 508A
CSA C22.2 No. 14-13, C22.2 No 14-10, C22.2 No 94-M91, C22.2 No. 94.1-07, C22.2 No 94.2-07
Lloyds of London Type Approval
American Bureau of Shipping (ABS)
DNV (Det Norske Veritas) P261.1E Maritime, Vessel and Offshorre Applications
IEEE C37 20.7 Type 2B, C37 20.2.a.3.6: Impact and Load
IEC 62271-200, 60262271-200, 60298 Appendix A, 60068-2-6:2007, 60068-2-3, 60068-2-78:2012

WARRANTY

Unconditional Lifetime Warranty

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CAUTION IMPORTANT NOTE

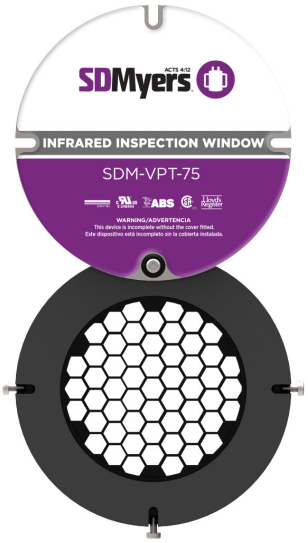
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MADE IN USA

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Reinforced Round Polymer IR Window



Round Indoor/Outdoor IR Window

2” | 3” | 4”

Stress-free viewing

Polymer is unaffected by environmental and mechanical stresses commonly seen with crystal-based infrared windows.

Arc containment tested

This series is successfully tested for arc containment on metal enclosed switchgear assemblies.

Improve your vision

These windows have passed rigorous standards and testing, and are UL Listed (E491496).

Clear view of electrical assets

The round indoor/outdoor IR window allows the use of any thermal imager to monitor energized electrical assets. The clear, reinforced polymer IR window optic enables visual inspections and traditional IR inspections across the entire IR spectrum. The round indoor/outdoor IR window is industrial grade, with a patented reinforced grill that exceeds high voltage switchgear viewing pane standards.





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ROUND INDOOR/OUTDOOR IR WINDOW			
Size	2”	3”	4”
DIMENSIONS			
Overall Diameter	3.6 in	4.8 in	5.95 in
Overall Thickness	1.0 in	1.0 in	1.0 in
VIEWING			
Viewing Diameter	2.0 in	3.0 in	4.0 in

OPTICAL SPECIFICATIONS	
Optic Material	Poly-View™ UL 746 compliant, visual, UV and IR transmissive polymer; -40°C (-40°F) to 325°C (617°F)
Reinforcing Grill	Aluminum Reinforcing Grill (IP22/ IP2x Standard)

GENERAL SPECIFICATIONS	
IP / NEMA Environment Rating	IP65 / NEMA 4
Operating Temperature	-40°C (-40°F) to 273°C (523°F)
Body Material	Powder Coated 5052 Aluminum
Gasket Material	UL 94 5VA TPE; -40°C (-40°F) to 273°C (523°F)
Hardware Material	316 Stainless Steel
Voltage Range	Any
Automatically Grounded	Yes

INSPECTION CAPABILITIES AND APPLICATIONS
Midwave IR and Longwave IR; Ultraviolet (UV); Ultrasound; Visual Inspection; Medium/High Voltage Applications

CERTIFICATIONS
UL Listed (E491496)
UL (USA) and cUL (Canada) to the following standards: 50V, 50E, 756C: Impact and Flammability, 746C & 746A-2012, 1558: Impact and Load Resistance, 508A: ANSI 508A
CSA C22.2 No. 14-13, C22.2 No. 14-10, C22.2 No. 94-M91, C22.2 No. 94.1-07, C22.2 No. 94.2-07
Lloyds of London Type Approval
American Bureau of Shipping (ABS)
DNV (Det Norske Veritas) P261.1E Maritime, Vessel and Offshore Applications
IEEE C37 20.7 Type 2B, C37 20.2.a.3.6: Impact and Load
IEC 62271-200, 60262271-200, 60298 Appendix A, 60068-2-6:2007, 60068-2-3, 60068-2-78:2012

WARRANTY
Unconditional Lifetime Warranty

CAUTION **IMPORTANT NOTE**

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Versatile Port for Ultrasound Inspections



Round Indoor/Outdoor PD Port

Increased Accuracy

Quickly and safely perform closed-panel airborne ultrasound inspections of equipment, including switchgear and transformers.

Environmental Protection

This series is constructed of switchgear-grade nylon plastic with an aluminum cover, stainless steel mounting screws, and seamless custom gaskets.

Improve your vision

This series of inspection windows is UL Listed (E491496), adding safety and security for inspection technicians and maintenance personnel.

Inspect Faster. Safer. Smarter.

A standard approach to data collection is essential to establishing a repeatable condition-based monitoring program that provides asset reliability. The Round Indoor/Outdoor PD Port standardizes the location and method for accessing consistent and quality acoustic data, regardless of the technician's experience or enclosure rating. Technicians can identify potential hazards and faults such as arcing, tracking, and corona in electrical distribution systems and switchgear. The safety-first design of the port's grill prevents objects from being pushed into the panel and safely allows technicians to collect data on energized equipment in accordance with NFPA 70E.





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ROUND INDOOR OUTDOOR PD PORT DIMENSIONS

Overall Diameter	2.6 in
Overall Thickness	1.0 in
Opening Dimension	0.5 in

GENERAL SPECIFICATIONS

IP / NEMA Environment Rating	IP65 / NEMA 4
Operating Temperature	-40°C (-40°F) to 273°C (523°F)
Body Material	UL 94 5VA Nylon (switchgear-grade plastic); -40°C (-40°F) to 273°C (523°F); aluminum cover
Backplate Grill Material	UL 94 5VA Nylon (switchgear-grade plastic) Grill (IP22/ IP2x Standard)
Gasket Material	UL 94 5VA TPE; -40°C (-40°F) to 273°C (523°F)
Hardware Material	316 Stainless Steel
Voltage Range	Any
Automatically Grounded	Yes

INSPECTION CAPABILITIES AND APPLICATIONS

Ultrasound; Medium/High Voltage Applications

CERTIFICATIONS

UL Listed (E491496)
UL (USA) and cUL (Canada) to the following standards: 50V, 50E, 756C: Impact and Flammability, 746C & 746A-2012, 1558: Impact and Load Resistance, 508A: ANSI 508A
CSA C22.2 No. 14-13, C22.2 No. 14-10, C22.2 No. 94-M91, C22.2 No. 94.1-07, C22.2 No. 94.2-07
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IEC 62271-200, 60262271-200, 60298 Appendix A, 60068-2-6:2007, 60068-2-3, 60068-2-78:2012

WARRANTY

Unconditional Lifetime Warranty

CAUTION IMPORTANT NOTE

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