



XDP Series IR & Visual Inspection Panel

2 Inspections, 1 Window

The XDP series is a “Dual-View” inspection window that combines a large format infrared (IR) window, with a visual inspection window.

The dual-view design allows technicians to take IR scans and digital photos through the same window while de-risking their predictive maintenance work process.



Access the Inaccessible:

How does your facility inspect equipment that can no longer be opened while energized due to that equipment’s voltage or incident energy rating? How does your facility inspect equipment protected by switched interlocks? The Dual-View Inspection Panel provides safe access to “inaccessible” energized equipment.

Compliance Made Easy & Quick

Easily comply with OSHA, NFPA 70E, CSA Z462 and similar electrical safety mandates by using closed-panel inspection methods. Infrared (IR) Windows and Visual Inspection Windows allow workers to perform routine inspections while keeping energized electrical equipment closed, and in “normal operating condition.”

Closed-panel inspections eliminate inherently high-risk tasks, such as removing panels or opening hinged doors. The resulting work task is safer for personnel, plant assets and processes.

The more efficient work process can also reduce inspection costs by 75% to 95%, while improving worker safety.

Over-Engineered for Your Safety

The XDP is built to out-live your enclosure. You have to see it to believe it.

The panel is fabricated from 12 gauge stainless steel and the cover from 16 gauge stainless steel. When it comes to durability and brute strength, Exiscan® is without peers.

Analyze Better Data:

Because using inspection windows does not increase risk of electrical hazards, inspections can be performed during peak load, when data collection is ideal, without worry of accidental process interruption.

Patent Pending



Anatomy of a Dual-View Panel



Visual Inspection Window:

- Viewing window provides broad field of view inside the enclosure, even across phase dividers.
- Impact-resistant polycarbonate: the durability and resilience you expect from Exiscan®.
- Scratch-Off™ protection inside & out: peel scratches and hazing off the viewing window for a clear, accurate view with Exiscan's™ patent-pending, multi-layer tear-away system.
- UV stabilized, oil resistant.

Infrared (IR) Window:

- IR window optic provides a vast field of view without cropping issues.
- Impact-resistant optic for unsurpassed durability.
- Finger guard allows user to place camera lens next to window optic to maximize field of view.
- Polymer optic is inherently resistant to moisture, humidity, and a broad spectrum of acids and alkalis for longevity and stable transmission.
- Transmission throughout the entire long wave and mid wave spectra for accurate temperature and ΔT calculations.

Other Structural Features:

- Stainless steel reinforcing plate (inside the enclosure) ensures a tight, flat seal in the event of blast forces.
- Stainless steel studs with Nyloc nuts ground and anchor the window into virtually any enclosure.
- Gaskets between the cover and body, and between the body and enclosure provide a NEMA 4X seal for indoor and outdoor use.

Get More Out of Your Inspection Windows

- More Durability
- More Field of View
- More Accuracy
- More for your Money
- Contact your local Distributor for a demonstration.

Window Body & Cover:

- 12 gauge stainless steel base, and 14 gauge stainless steel hinged cover for unmatched durability and integrity.
- Window frames machined from bar stock aluminum — Mil-Spec anodized.
- Stainless steel, spring loaded, captive cover screws for a safe, secure seal.
- Entire assembly powder coated to endure aggressive environments.
- Cover available in full or partial (IR only).

XDP Series IR & Visual Inspection Panel

| Material Specifications | | | |
|---|---|--|--|
| Primary Panel & Cover Material | Stainless Steel (Powder Coated) | | |
| Backer Plate & Finger Guard | Stainless Steel (Powder Coated) | | |
| Window Bezel (behind primary panel) | Aluminum (Anodized and Powder Coated) | | |
| Hardware & Fasteners | Stainless Steel | | |
| Self-Locking Nuts | Nickel-Plated, Nylon Insert Lock Nuts ("Nyloc") | | |
| IR Optic | Transmissive Polymer | | |
| Viewing Window Optic | 1/4" Polycarbonate, UV stabilized, oil resistant. Includes Scratch-Off™ protective layers on both planes of window | | |
| Gaskets | Silicone & Neoprene | | |
| Cover Screws* | Stainless Steel, Captive, Spring Loaded | | |
| Dimension Specifications (nom.) | XPM-#-10-#-# | XPM-#-15-#-# | XPM-#-20-#-# |
| Panel (L x H) | 12.0 in x 8.25 in (305 mm x 210 mm) | 17.0 in x 8.25 in (381 mm) x (210 mm) | 24.0 in x 8.25 in (508 mm) x (210 mm) |
| Thickness: Body, Cover | 12 gauge, 16 gauge | 12 gauge, 16 gauge | 12 gauge, 16 gauge |
| IR Aperture Dimension | 9.5 in x 3.25 in (240 mm x 83 mm) | 15 in x 3.25 in (356 mm) x (83 mm) | 20 in x 3.25 in (508 mm) x (83 mm) |
| Viewing Window Aperture Dimension | 9.5 in x 2.25 in (240 mm x 56 mm) | 15 in x 2.25 in (356 mm) x (56 mm) | 20 in x 2.25 in (508 mm) x (56 mm) |
| Tested | | | |
| NEMA Environmental Rating | NEMA 4X | | |
| Ingress Protection (IP) | IP65 | | |
| ANSI/IEEE C37.20.2 Sec A.3.6 (Switchgear Window Impact Resistance) | Yes | | |
| Transmission Compatibility | | | |
| Mid Wave & Long Wave Imagers | All Brands | | |
| Vibration | Unaffected | | |
| Broad Spectrum Acids / Alkalis | Unaffected | | |
| Humidity & Moisture | Unaffected | | |
| General | | | |
| Voltage Range | Low, Medium & High | | |
| Grounding | Automatically grounds when mounted to grounded panel/door | | |
| Operating Temperature | -40°C (-40°F) to 150°C (300°F) | | |
| Installation | Saw-Cut or Nibbler | | |
| Lifetime Warranty | Unconditional for Materials & Workmanship | | |
| Patent | Patents Pending: USA and International | | |
| Country of Origin | Proudly Made in the USA | | |

XDP Series IR & Visual Inspection Panel

Quick & Easy Installation:

The XDP IR inspection panels require a one-time modification to the enclosure. A qualified person simply cuts an opening along the lines of the included template and drills pilot holes in the panel or door.

The rectangular opening gives users the latitude to use a saw, cutoff wheel or nibbler. Properly equipped, a team of two technicians can install four to five windows an hour.



Omni DualSaw

Why Polymer?

Exiscan® designed its IR windows for the industrial electrical market. With this in mind, traditional laboratory crystals were not an option. After extensive testing and research, it was determined that only polymer satisfies the most important demands of the industrial market:

- Durability: Industrial electrical equipment requires impact resistant optics
- Longevity: Transmission characteristics must be resistant to humidity, moisture, chemicals
- Accuracy: Accurate Temperatures and ΔT s require an optic that transmits the *entire* LWIR spectrum
- Large Field of View: Larger, square windows allow Thermographers to evaluate more with less
- Value: Larger windows mean fewer windows needed, and fewer windows to install

XDP Dual-View Inspection Panels with patent-pending polymer infrared optic and patent-pending Scratch-Off™ window protection are uniquely suited for industrial and facilities maintenance environments: Built like a tank, resilient and warranted for life, accurate and compatible with all models of cameras, big enough to see it all with fewer windows, yet surprisingly affordable.

Exiscan® won't compromise on safety, accuracy or usability. That's why we over-engineer our design and only use industrial-grade materials — like polymer, aluminum and stainless steel.

Ordering Information:

