

Engineered Solutions for Infrared Scanning Applications

Make Infrared Inspections without Disturbing Operations and Comply with NFPA 70E Requirements



Reduce the need to remove panels or covers for visual and infrared inspections

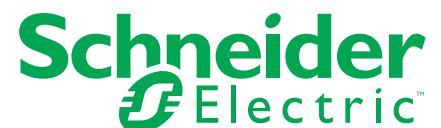
Overheating is frequently an early indication of electrical equipment damage or break down. Infrared scanning can detect invisible hot spots in electrical systems, which can decrease the potential of unexpected downtime.

As part of Schneider Electric, Square D Services offers a variety of infrared windows and panel covers that are permanently installed into the electrical equipment. As a result, infrared inspections can be performed on energized equipment since the covers or panels are not removed during testing.

In addition to our standard line of 2 in., 3 in. and 4 in. H.VIR infrared and H.VIS visual inspection windows, Square D Services now offers the following engineered solutions to fit almost any application:

- **CAP Series for low- and medium-voltage applications**
 - Rectangular window in three widths
- **TPC Series for low-voltage applications**
 - Custom-engineered distribution and lighting panelboard windows

Make the most of your energySM

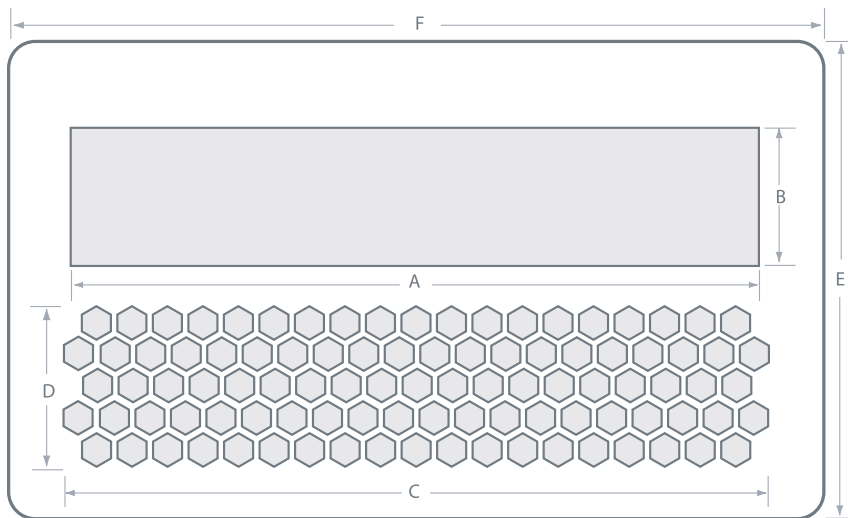


CAP Series: Industrial Grade Viewing Windows

Impact-resistant infrared and visual inspection rectangle window

When a visual inspection is required in addition to infrared scanning, consider the CAP series, which provides the flexibility to inspect various internal electrical components through a single window. Available in 6 in., 12 in. and 24 in. widths, the CAP series is a cost-effective alternative to purchasing multiple windows when considering the purchase price, as well as the installation time and cost.

Range	Visual Window	IR Window	Overall Dimensions
CAP-V, VC and VCH-6	A = 3.8 and B = 1.95	C = 3.6 and D = 2.3	E = 8.6 and F = 6.3
CAP-V, VC and VCH-12	A = 9.4 and B = 1.95	C = 9.3 and D = 2.3	E = 8.1 and F = 12.0
CAP-V, VC and VCH-24	A = 21.3 and B = 1.95	C = 20.9 and D = 2.3	E = 8.6 and F = 24



CAP-V24 installed on Square D HVL



CAP-VC12 open shown

CAP V: Without cover

CAP VC: With cover

CAP VCH: With cover and lockable hinge

TPC Series: Transmissive Panel Covers

Custom-engineered for low-voltage applications

Loose connections often indicate overheating and other anomalies in low voltage equipment. Typically, dead-front panels must be removed to allow a clear view of connections and carries the risk of dislodging breakers. In addition, removing the panel covers on electrical equipment over 50 V requires the use of PPE.

The TPC Series enables infrared scanning to be performed without removing the dead-front panels. Built to the same industrial-grade standards as the CAP Series, TPC panels are custom-sized to replace the existing dead-front panel covers on low-voltage equipment. This provides thermographers with the visibility they need without any added risk to personnel or plant. Inspections take a fraction of the time and can be performed during peak operating time for meaningful data.



Before

After

Features of the CAP Windows and Transmissive Panel Covers (TPC)

- Metal frame with composite mesh
- Viewing material made of durable polymer
- Full-range of sizes available
 - Standard lengths for CAP: 6 in., 12 in. and 24 in.
 - > Custom sizes available
 - Transmissive Panel Covers are custom-sized
- Comply with the following industry standards and regulations:
 - IEEE C37 20.0.a.3.6 (impact and load)
 - UL 746C (impact and flammability)
- Lifetime warranty

Primary applications

- CAP: medium-voltage, Square D™ HVL switch
- TPC: low-voltage, QED™ switchboard and I-Line™/NF/NQ panelboards
- Other applications available (including other manufacturers' equipment)



Additional Solutions Available

- Installation, engineering services and infrared inspection
- H.VIR infrared windows
 - Best-in-class crystal composition for superior transmissibility
 - Available in 2 in., 3 in. and 4 in. diameters
- H.VIS electric eye viewing windows
 - Allows visual inspection of internal components without removing equipment covers
 - Available in 2 in., 3 in. and 4 in. diameters

Why Choose Square D Services?

As part of Schneider Electric, a global specialist in energy management, Square D Services offers engineered solutions designed to promote safety, lower life cycle cost and improve power system reliability to industrial, utility and commercial customers throughout the United States. Our commitment is to provide you with innovative solutions, best-in-class customer service and exceptional quality in everything we do.



For more information call 888-SQUARED or visit us online at www.SquareD-Services.com



H.VIR Comet Infrared Inspection Window



Rear view of H.VIR window



Easily check status



H.VIS electric eye visual inspection window




Installation tool for H.VIR/H.VIS

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