INFRARED WINDOWS

Are you concerned about Arc-Flash but understand the benefit of Infrared Inspections? Then you need IR Windows. Protect your equipment, your plant and your personnel using the next generation of IR Windows from CorDEX. The IW Series SMART IR Windows are not only cost effective, simple to install and extremely rugged, but they are SMART too. Incorporating an embedded RFID tag, each UL and CSA Recognised SMART IR Window can communicate wirelessly with any suitably RFID enabled device providing a unique serial number wirelessly.

WHY CHOOSE OUR SMART INFRARED WINDOWS?

The IW Series is the latest generation of **SAFIR SMART IR Windows** from CorDEX Instruments. The IW Series infrared window operates with any thermal imager, helping take electrical inspection and predictive maintenance to a new level of safety, efficiency and accuracy.

1

Low profile design

Why?

Smooth, rounded edges, slim profile and typical switchgear colouring match your host equipment perfectly, for a seamless installation.

2

Anodised aluminium housing

Why?

Your switchgear body is made of metal, so your IR Window body should be also. Ensure you are not at risk of electric shock with this fully grounded, corrosion protected design.

3

Impact resistant clear cover

Why?

Protect your investment and maximize your return. The impact resistant clear cover helps prevent accidental damage whilst at the same time allowing visual inspection and confirmation of equipment status.

4

Spring loaded hinge

Why?

Avoid crowded panels restricting your view. Install IW Series in any orientation and its spring loaded hinge will open and hold the cover automatically while you perform your survey.

5

13.5Mhz RFID tag

Why?

Wirelessly identify each IR Window with its unique, embedded RFID tag. Build databases of your IR Window inspections with any 13.5Mhz RFID enabled tool, or take advantage of CorDEX CONNECT software and enabled tools to do it for you!

6

Delivered fully assembled

Why?

No need to waste time and lose parts by removing screws and reassembling. Simply open the package, install and go.

7

Broadband, HYDROGARD™ coated crystal

Why?

Operates with any camera; digital, infrared or ultraviolet, the HydroGARD coated optic is designed to be flexible and last the test of time.

8

¼ turn quick release mechanism

Why?

Captive ¼ turn locking mechanism saves you money every time you use it. Simply twist the key 90 degrees and the IR Window automatically opens.

Infrared Windows

IW SERIES

The latest generation of **SMART Infrared Windows** for **low, medium and high** voltage applications.

FEATURES

The IW Series are fully certified and tested to the following standards: UL50, UL50V and UL1558

Manufactured from industrial grade materials proven to withstand electric arcs

Efficient 1/4 turn locking system

Intelligent multiple identification system for each individual window

Arc flash tested against a 50kA short circuit for 1 second at 11kV

CorDEX IW Series SMART Infrared Windows.

The IW Series is manufactured from industrial grade materials designed to withstand electrical arcs and certified by Underwritten Laboratories (UL) to follow the very latest IR window standards. Install the certified, IW Series SMART IR Windows to help comply with NFPA70E electrical safety guidelines and reduce the need to wear large and bulky PPE.

Take a look before you shoot with the high security, spring loaded impact cover. With IW Series, there is no need for second visual inspection windows in addition to your IR Windows, as you can confirm switch positions for lock-out tag-out compliance with the same Window as you shoot IR. Maximise your investment, don't throw away your IR Windows when you change your equipment. The fully removable IW Series IR Windows can be used again and again, outliving the life of your equipment.

Through intelligent design and special features, the IW Series reduces the time it takes to perform inspections. With the ¼ turn locking system and spring loaded cover it reduces your time per inspection.

The IW Series crystal lens is also protected with HYDROGARD™ advanced formula to stop environmental moisture damage allowing the windows to be used both indoor and outdoor.

PRODUCT OVERVIEW

Optic/Crystal Data	IW2000	IW3000	IW4000
Crystal Insert Diameter	50mm (2in)	80mm (3.2in)	100mm (3.9in)
Viewing aperture diameter	45mm (1.8in)	73mm (2.9in)	93mm (3.7in)
Viewing aperture area	1591mm² (2.5in²)	4186mm² (5.6in²)	6794mm² (9.79in²)
Thickness	2mm (0.08in)	2mm (0.08in)	4mm (0.16in)
HYDROGARD™ Coating	Yes		
Shortwave IR capable	Yes		
Midwave IR capable	Yes		
Longwave IR capable	Yes		
Ultraviolet (UV) capable	Yes		
Visual capable	Yes		
Fusion capable	Yes		

Certification	
Underwriters laboratories (UL) recognised	Yes
UL50	Type 4/12
UL746C, UL94, UL50V, UL1558	Yes
Sira IP65	Yes

General Specification	
Maximum Temperature	Gaskets: 250˚C (482˚F)
	Body: 659˚C (1218˚F)
	Optic: 1400˚C (2552˚F)
Gaskets	Low smoke and fume (LSF) compliant silicone
NEMA rating	Type 4/12 (UL Third Party Certified)
Vibration rating	IEC60068-2-6
Humidity rating	IEC60068-2-3
Warranty	Lifetime replacement against manufacturing defects

	Window Aperture	Diameter	Depth
IW2000	45mm (1.8in)	77mm (3.0in)	19.5mm (0.8in)
IW3000	73mm (2.9in)	103mm (4.1in)	19.5mm (0.8in)
IW4000	92mm (3.7in)	123mm (4.9in)	21.5mm (0.85in)

HYDROGARD CONNECT

Embedded RFID chip enables open-architecture databasing with any compatible RFID enabled device. Use with CorDEX CONNECT enabled imagers for automatic transmission correct and reporting

HYDROGARD™ coated broadband optic, impervious to moisture, mild acids and alkalis – guaranteed

Spring loaded impact cover, automatically raises and holds during your IR scan in any orientation

SMART tools working together, saving you time and money. Go to page 19 for the TC7150 RFID enabled thermal imager.

CorDEX reserve the right to make changes to the instrument at anytime and without notice.