CorDEX INSTRUMENTS
SAFER | FASTER | BETTER

The IW-Series

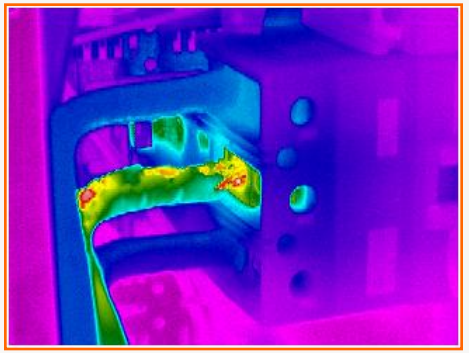
Intelligent IR Windows

What are IR Windows?

IR Windows or viewports, are a component installed into electrical equipment to enable thermographers to view energized equipment without the need to remove panels and covers.

Why Use IR Windows?

- Thermal inspections using an infrared camera can detect a variety of potential problems before they actually become a problem, primarily an arc flash.
- Thermal inspections MUST be performed on energized electrical gear.
- Infrared windows installed into the covers of the electrical gear allow for thermal inspections on the connections without ever de-energizing the gear or removing the covers.



Why Use IR Windows?

- IR Windows reduce the requirement for multiple trained personnel
- Reduces the need to wear bulky protective PPE clothing
- Inspection time can be cut significantly.

IW-Series Intelligent IR Windows

- UL Recognized Type 3/12 Indoor or Outdoor.
- Broadband crystal optic with HydroGARD™ protective coating.
- Downloadable transmission correction maps for every IR Window.
- Available in two sizes 3” and 4”

Key features

Spring loaded hinge

RFID tag

Barcode and serial number

Broadband crystal with HydroGARD ™ coating system

Impact resistant clear cover

Aluminium housing

¼ Quick release mechanism

Safe

- Comprising of time proven broadband crystal optic and aluminium mounting materials.
- Certified by Underwriters Laboratories (UL) to the latest UL50V standards for Type 3/12 equipment.
- Fully grounded design eliminates the risk of electric shock.

Efficient

- Patent pending quick release, a spring loaded cover requiring only 1⁄4 turn to open, the IW series saves you money every time you use it!
- Supplied fully assembled from the factory the IW Series requires no on-site gasket assembly.
- Removable/re-useable design means even with new switchgear you can still use the same IW Series Intelligent IR window.

Simple to use

- Clear captive cover allows visual inspection when closed

- Broadband optic allows infrared images to be taken with ANY thermal imager

Simple to use

- Spring loaded hinged cover opens and holds in place regardless of installation orientation

Intelligent

- Downloadable transmission correction information maximum accuracy.
- Embedded RFID tag, barcode and serial number enables IR Window identification.
- Reference images, temperature correction, route planning & much more using CorDEX CONNECT and RoutePLANNIR.

Intelligence 1-2-3

RoutePLANNIR™ connectivity with ruggedized PDA scans RFID tag or barcode and logs panel internal details, downloads correction maps and temperature trends.

FREE iPhone App scans IR Window barcode and downloads unique transmission correction map directly from CorDEX Servers in the UK.

Web interface enables direct connection to CorDEX Servers allowing transmission correction to be achieved from any web enabled device

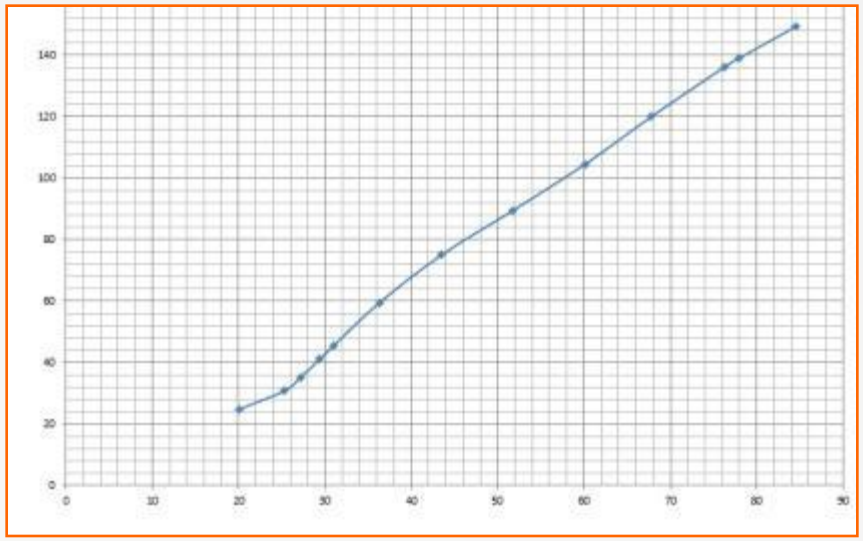
RoutePLANNIR™

- Ruggedized PDA
- RFID & Barcode scanner
- Digital camera
- RoutePLANNIR™ software enables;
  - Correction for IR Window transmission once connected to CorDEX CONNECT
  - Store and recall digital images associated with specific IR Window
  - Record temperatures and current* and associate with specific IR Windows
  - Upload data to CorDEX CONNECT Reporting Database tool and create reports, graphs and trends

*Readings taken with third party devices

Accuracy made simple

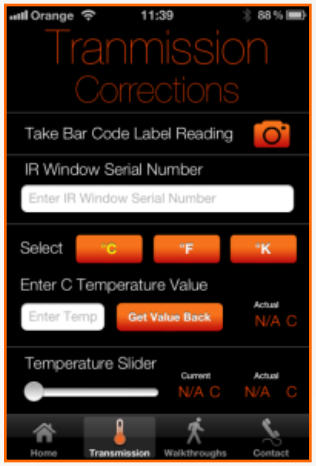
- Unique transmission correction curve supplied for every IW-Series IR Window manufactured.
- Accuracy up to ±2°C with most longwave thermal imagers.



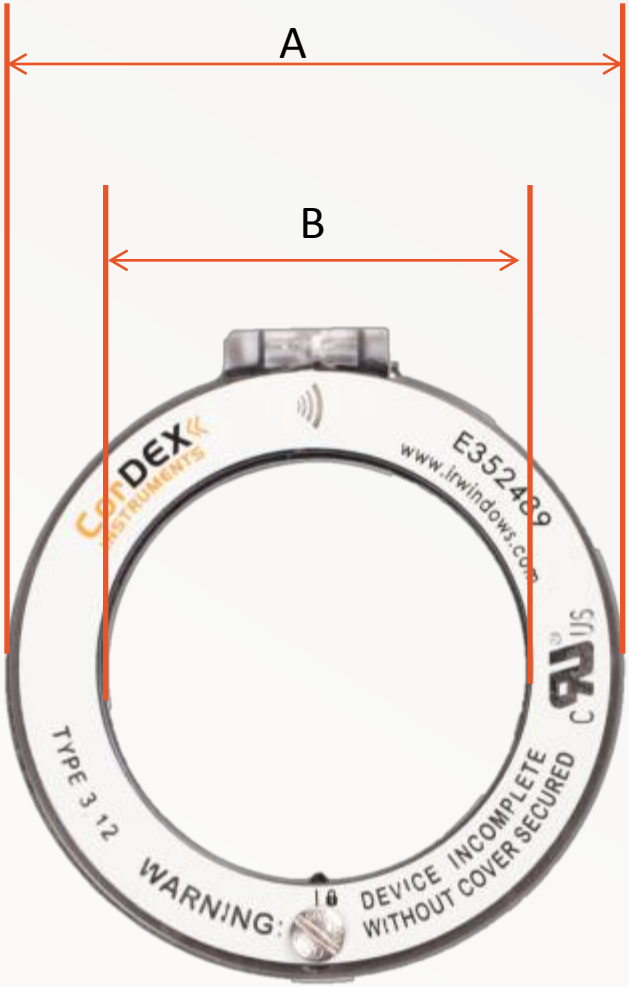
Typical correction curve

Typical correction curve accessible via ;

- CorDEX CONNECT,
- CorDEX IW Mini-app,
- CorDEX website - www.irwindows.com
- RoutePLANNIR PDA,
- iPhone App,



Sizing



	A	B
IW3000	103mm (4.05”)	74mm (2.9”)
IW4000	123mm (4.84”)	91mm (3.6”)

- Low Footprint
- Large Optic
- Maximum usability

Recap

- UL Recognized
  - UL50V
  - UL50
  - UL746C
  - UL94
- Type 3/12 (outdoor or indoor)
- IP65 (outdoor or indoor)
- HydroGARD™ protected multispectral optic; IR, UV and Visual
- Embedded intelligence
  - Downloadable transmission correction curves
  - RFID, Barcode and human readable identification
- iPhone connectivity
- Database and reporting software
- Quarter turn access
- Spring loaded cover

Thank you!

www.preditec.com
info@preditec.com
+34 976 200 969