



Fluke TiRx Inspector thermal imager for buildings



Entry-level imager shows building heat losses in highest detail

Our new entry-level TiRx Inspector thermal imager shows up building faults and energy waste instantly – and in unrivalled detail. The 160 x 120 pixel resolution is three times that of other entry-level imagers, showing images on a widescreen format LCD. Just point the imager and pull the trigger – the excellent 0.1 °C (NETD) thermal sensitivity at 30 °C highlights even small temperature differences.

Facility managers, building inspectors and energy assessors can all use the instrument to perform rapid building envelope and roofing inspections for restoration and repair. It shows problems like heat loss from HVAC (Heating, Ventilation and Air Conditioning systems), water leakage from pipes and radiators, air leakage from windows, moisture intrusion in insulation and the location of underfloor heating systems. And you can upgrade the TiRx Inspector to a full-featured Fluke TiR thermal imager with Fluke's IR-Fusion® for advanced analysis and reporting. IR-Fusion® shows a full thermal image, or one combined with a visual image to pinpoint potential faults.

Fluke TiRx Inspector thermal imager for buildings



- Rugged and reliable: Engineered to withstand a 2 m drop
- 9.1 cm (3.6 in) diagonal landscape color VGA (640 x 480) LCD
- Temperature range and thermal sensitivity optimized for building diagnostics applications
- Perfect for any application and budget
- Excellent thermal sensitivity for seeing even small temperature differences (which could indicate problems)
- Adjustable hand strap for left- or right-handed users
- Everything needed to get started is included.
Training DVD is now included free.



Fluke (U.K.) Ltd.



Fluke TiRx Inspector thermal imager for buildings

Detailed specifications		
Temperature	Temperature measurement range (not calibrated below -10 °C)	-20 °C to +100 °C (-4 °F to +212 °F)
	Accuracy	± 5 °C or 5 % (whichever is greater)
	Measurement modes	Smooth auto-scaling and manual scaling
Imaging performance	Field of view	23° x 17°
	Spatial resolution (IFOV)	2.5 mRad
	Minimum focus distance	Thermal lens: 15 cm (6 in)
	Focus	Manual
	Image frequency	9 Hz refresh rate
	Detector type	160 X 120 focal plane array, uncooled microbolometer
	Infrared lens type	20 mm F = 0.8 lens
	Thermal sensitivity (NETD)	≤ 0.1 °C at 30 °C (100 mK)
	Infrared spectral band	7.5 µm to 14 µm
Image presentation	Palettes	Ironbow, blue-red, high contrast, grey
	Level and span	Smooth auto-scaling and manual scaling of level and span
	Minimum span (in manual mode)	2.5 °C (4.5 °F)
	Minimum span (in auto mode)	5 °C (9 °F)
Image and data storage	Storage medium	SD memory card (2 GB memory card will store at least 1200 fully radiometric (.is2) IR or 3000 basic (.bmp) IR images)
	File formats	Non-radiometric (.bmp) or fully-radiometric (.is2) No analysis software required for non-radiometric (.bmp) files
	Export file formats w/SmartView™ software	JPEG, BMP, GIF, PNG, TIFF, WMF, EXIF, and EMF

General specifications	
Temperature	Operating: -10 °C to 50 °C (14 °F to 122 °F) Storage: -20 °C to +50 °C (-4 °F to 122 °F) without batteries
Relative humidity	10 % to 90 % non-condensing
Display	9.1 cm (3.6 in) diagonal landscape color VGA (640 x 480) LCD with backlight (selectable bright or auto)
Controls and adjustments	User selectable temperature scale (°C/°F) Language selection Time/date set
Software	SmartView™ full analysis and reporting software included
Power	Battery: Internal rechargeable battery pack (included) Battery life: 3 to 4 hours continuous use (assumes 50 % brightness of LCD) Battery charge time using ac adapter/charger or dc car charger: 2 hours for full charge
AC operation/charging	AC adapter/charger (110 V ac to 220 V ac, 50 Hz to 60 Hz). Charges battery while imager is operating. Universal ac mains adapters included.
Power saving	Sleep mode activated after 5 minutes of inactivity, automatic power off after 30 minutes of inactivity
Safety standards	CE Directive: IEC/EN 61010-1 2nd Edition Pollution Degree 2
Electromagnetic compatibility	EMC directive: EN61326-1 C-Tick: IEC/EN 61326 US FCC: CFR 47, Part 15 Class A
Vibration	2 G, IEC 68-2-29
Shock	25 G, IEC 68-2-29 {2 m (6.5 ft) drop, 5 sides}
Dimensions (HxWxL)	0.27 m x 0.13 m x 0.15 m (10.5 in x 5 in x 6 in)
Weight	1.2 kg (2.65 lb)
IP rating	IP54
Warranty	Two-years
Calibration cycle	Two-years (assumes normal operation and normal aging)
Supported languages	English, Italian, German, Spanish, French, Russian, Portuguese, Swedish, Turkish, Czech, Polish, Finnish, Simplified Chinese, Traditional Chinese, Korean, and Japanese



Fluke (U.K.) Ltd.

FLUKE

Fluke TiRx Inspector thermal imager for buildings

Model Name	Product Description	
Fluke TiRx	Thermal Imager Includes: <ul style="list-style-type: none">● Fluke TiRx Thermal Imager● AC power supply/battery charger (including mains adapters)● SD memory card● SD card reader (USB) for downloading images into your computer● SmartView™ software with free software upgrades for life● Rugged hard carrying case● Soft transport bag● Hand strap● Users manual● Warranty registration card● Training DVD	