

# PRODUCT ANNOUNCEMENT

# FLUKE®

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## Fluke TiR1 and TiR Thermal Imagers *Optimized for building envelope, restoration, and roofing applications!*

**Your wait for a rugged, reliable, complete thermal imaging solution is over.**

The new Fluke TiR1 and TiR Thermal Imagers are the perfect imagers for building envelope, restoration and remediation, inspection and roofing applications.



The only imagers with IR-Fusion® Technology both in camera and software, for easy identification and reporting of problems, combines visible (visual) image with IR image in full screen or picture-in-picture views.

### TiR1 and TiR Features and Benefits:

- IR-Fusion® Technology both in camera and software combines visible (visual) image with IR image in full screen or picture-in-picture views for easy identification and reporting of problems
- Rugged and Reliable: Engineered to withstand a 2 meter (6.6 feet) drop
- Excellent thermal sensitivity for seeing even small temperature differences (which could indicate problems)
- 640 x 480 large 3.6" diagonal color LCD display (landscape format)
- Temperature measurement range optimized for Building Diagnostics applications
- SmartView™ analysis and reporting software (with free upgrades through life of product)
- Removable 2 GB SD Memory Card for easy storage and transfer of thermal and visible images
- Complete solution includes hardware and software to get you going
- Two-year warranty

### Customer applications:

Who Uses It?	Where is it Used?
<ul style="list-style-type: none"> <li>▪ Building Diagnostics Professionals</li> <li>▪ Restoration and Remediation Specialists</li> <li>▪ Roofing Professionals</li> </ul>	<ul style="list-style-type: none"> <li>▪ Commercial buildings</li> <li>▪ Residential complexes</li> <li>▪ Industrial plants</li> </ul>

## Product specifications TiR1 and TiR:

	Fluke TiR1	Fluke TiR
<b>Imaging performance</b>		
Thermal: Field of View (FOV)	23° horizontal x 17° vertical	
Minimum focus distance	Thermal lens: 15 cm (approx. 6 in), Visible (visual) light lens: 46 cm (approx. 18 in)	
Thermal sensitivity (NETD)	<0.07 °C at 30 °C (70 mK)	<0.1 °C at 30 °C (100 mK)
Minimum span (Auto/Manual)	5 °C / 2.5 °C	5 °C / 2.5 °C
Focus	Manual	
Detector size	160 x 120	
Visual: On camera operating modes	Picture-in-Picture (Blending is user selectable between MAX, MED and MIN) and full screen IR (Blending is user selectable between MAX, MED and MIN)	Full Picture-in-Picture and full screen IR
Visual (Visible light) camera	640 x 480 pixels, full color	
<b>Temperature measurement</b>		
Temperature range	-20 °C to +100 °C (-4 °F to +212 °F), 2 ranges	-20 °C to +100 °C (-4 °F to +212 °F)
Accuracy	± 2 °C or 2 % (whichever is greater)	± 5 °C or 5 % (whichever is greater)
Measurement modes	Center point and hot and cold markers	Center point
On-screen emissivity correction	Yes	No
<b>Image presentation</b>		
Digital display	9.1 cm (3.6 in) diagonal landscape color VGA (640 x 480) LCD	
LCD backlight	Selectable bright or auto	
Palettes	Ironbow, blue-red, high contrast, amber, hot metal, grey	Ironbow, blue-red, high contrast, grey
<b>Image and data storage</b>		
Fully radiometric	Yes	
Storage medium	GB SD card stores up to 3000 .bmp IR images or 1200 .IS2 IR-Fusion images	
File formats supported	Exportable to JPEG, BMP, GIF, PNG, TIFF, WMF EXIF, and EMF	
Voice memo recorder (voice annotation)	Yes	No
<b>Software Controls and adjustments</b>		
Set-up controls	SmartView ; Full analysis and reporting software included	
Set-up controls	Date/time, °C/°F, language, emissivity, hot spot and cold spot on image	Date/time, °C/°F, language
Language selection	English, German, French, Spanish, Portuguese, Italian, Swedish, Finnish, Russian, Czech, Polish, Turkish, Simplified Chinese, Traditional Chinese, Korean, Japanese	
Image controls	Smooth auto scaling and manual scaling	
On-screen indicators	Battery status, real time clock and center point temperature, range and span indication and high and low alarm settings	
<b>Power</b>		
Battery type	Internal rechargeable battery (included)	
Battery operating time	3 to 4 hours continuous operation	
Battery charging	2 hours with ac charger or dc car charger (charges battery while operating)	
AC operation	AC adapter/charger 110/230 V ac, 50/60 Hz	

Power saving	Automatic shutdown and sleep modes (user specified)
<b>Environmental and mechanical design</b>	
Operating temperature	-10 °C to +50 °C (+14 °F to +122 °F)
Storage temperature	-20 °C to +50 °C (-4 °F to +122 °F)
Relative humidity	Operating and storage 10 % to 90 %, non-condensing
Water and dust resistant	IP54
Two meter (6.6 feet) drop test	Yes
Protective lens cover	Yes
Weight (including battery)	1.2 kg (2.6 lbs)
Imager size (HxWxD)	267 mm x 127 mm x 152 mm (10.5 in x 5.0 in x 6.0 in)
<b>Other</b>	
Warranty	Two-years
EN 61010-1 2nd edition and EN61326-1	Yes

### Included Accessories (all models):

- SmartView™ analysis and reporting software
- 2 GB SD Memory Card
- SD Card Reader for downloading images into your computer
- Rugged hard carry case and portable soft carry case
- Hand strap
- Rechargeable internal battery
- AC charger/power supply

### Optional Accessories (all models):

Thermal Imager Car Charger (Fluke TI-CAR CHARGER, CAR CHARGER FOR TIR/TIR1/TI110/TI20/TI25)