



Berg Engineering & Sales Co., Inc.  
 3893 Industrial Avenue • Rolling Meadows, IL • 60008  
 phone: (847) 577-3980 • fax: (847) 577-0474  
 www.bergeng.com • sales@bergeng.com

# Fluke Thermal Imager Comparison



Model Number	Ti10	Ti25	Ti32	TiR	TiR1	TiR32	TiS
Fluke Product Number	2822046	2823117	3472360	3032773	2823121	3472372	3801034
Pricing	Please contact Berg Engineering for Pricing						
<b>Other Features</b>							
Detector size	160 x 120	160 x 120	320 x 240	160 x 120	160 x 120	320 x 240	120 x 120
Detector type	Uncooled Microbolometer, Focal Plane Array	Uncooled Microbolometer, Focal Plane Array	Uncooled Microbolometer, Focal Plane Array	Uncooled Microbolometer, Focal Plane Array	Uncooled Microbolometer, Focal Plane Array	Uncooled Microbolometer, Focal Plane Array	Uncooled Microbolometer, Focal Plane Array
Field of View (FOV)	23° horizontal x 17° vertical	23° horizontal x 17° vertical	23° horizontal x 17° vertical	23° horizontal x 17° vertical	23° horizontal x 17° vertical	23° horizontal x 17° vertical	17° horizontal x 17° vertical
Spatial Resolution (IFOV)	2.5 mrad	2.5 mrad	1.25 mrad	2.5 mrad	2.5 mrad	1.25 mrad	2.50 mrad
Minimum Focus Distance	15 cm (approx. 6 in)	15 cm (approx. 6 in)	15 cm (approx. 6 in)	15 cm (approx. 6 in)	15 cm (approx. 6 in)	15 cm (approx. 6 in)	15 cm (approx. 6 in)
Thermal Sensitivity (NETD)	≤0.2 °C at 30 °C (200 mK)	≤0.1 °C at 30 °C (100 mK)	≤0.05 °C at 30 °C (50 mK)	≤0.1 °C at 30 °C (100 mK)	≤0.07 °C at 30 °C (70 mK)	≤0.05 °C at 30 °C (50 mK)	≤0.1 °C at 30 °C (100 mK)
Detector data acquisition/ Image Frequency	9 Hz	9 Hz	60 Hz or 9 Hz	9 Hz	9 Hz	60 Hz or 9 Hz	9 Hz
Focus	Manual, 1-hand focus	Manual, 1-hand focus	Manual, 1-handed SmartFocus	Manual, 1-hand focus	Manual, 1-hand focus	Manual, 1-handed SmartFocus	Manual, 1-handed SmartFocus
Spectral Band	7.5 μm to 14 μm	7.5 μm to 14 μm	7.5 μm to 14 μm	7.5 μm to 14 μm	7.5 μm to 14 μm	7.5 μm to 14 μm	7.5 μm to 14 μm
Transmission Correction (On Imager)	No	No	Yes	No	No	Yes	No
Reflected Background Temperature Correction (on Imager)	In Software Only	Yes	Yes	In Software Only	Yes	Yes	In Software Only
<b>Measurement Modes</b>							
Centerpoint	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Center box (area, min/max, average)	In Software Only	In Software Only	In Software Only	In Software Only	In Software Only	In Software Only	In Software Only
Advanced on-board analysis functions	No	No	No	No	No	No	No
User defined field/text annotations	No	No	No	No	No	No	No
Voice annotation	No	Yes	Yes	No	Yes	Yes	No
Automatic hot and cold point detection	In Software Only	Yes	Yes	In Software Only	Yes	Yes	In Software Only



Berg Engineering & Sales Co., Inc.  
 3893 Industrial Avenue • Rolling Meadows, IL • 60008  
 phone: (847) 577-3980 • fax: (847) 577-0474  
 www.bergeng.com • sales@bergeng.com

# Fluke Thermal Imager Comparison



Model Number	Ti10	Ti25	Ti32	TiR	TiR1	TiR32	TiS
<b>Image Presentation</b>							
Digital display	3.6" High Resolution LCD	3.6" High Resolution LCD	3.7" LCD	3.6" High Resolution LCD	3.6" High Resolution LCD	3.7" LCD	3.6" High Resolution LCD
Video output	No	No	No	No	No	No	No
Palettes	4	6	16 (8 Standard and 8 Ultra Contrast™)	4	6	16 (8 Standard and 8 Ultra Contrast™)	3
<b>Optional Lens</b>							
54 mm Telephoto	No	No	Yes	No	No	Yes	No
10.5 mm Wide angle lens	No	No	Yes	No	No	Yes	No
<b>Image and Data Storage</b>							
Storage medium	SD Memory Card (2 GB), Stores at least 1200 radiometric (.is2) Ir-Fusion Images or 3000 basic IR images (.bmp or .jpg)	SD Memory Card (2 GB), Stores at least 1200 radiometric (.is2) Ir-Fusion Images or 3000 basic IR images (.bmp or .jpg)	SD Memory Card (2 GB), Stores at least 1200 radiometric (.is2) Ir-Fusion Images or 3000 basic IR images (.bmp or .jpg)	SD Memory Card (2 GB), Stores at least 1200 radiometric (.is2) Ir-Fusion Images or 3000 basic IR images (.bmp or .jpg)	SD Memory Card (2 GB), Stores at least 1200 radiometric (.is2) Ir-Fusion Images or 3000 basic IR images (.bmp or .jpg)	SD Memory Card (2 GB), Stores at least 1200 radiometric (.is2) Ir-Fusion Images or 3000 basic IR images (.bmp or .jpg)	SD Memory Card (2 GB), Stores at least 1200 radiometric (.is2) Ir-Fusion Images or 3000 basic IR images (.bmp or .jpg)
On imager file formats	BMP, IS2	BMP, IS2	BMP, JPG, IS2	BMP, IS2	BMP, IS2	BMP, JPG, IS2	BMP, IS2
File formats supported in software	BMP, JPG, GIF, PNG, TIF, WMF, EXIF, EMF	BMP, JPG, GIF, PNG, TIF, WMF, EXIF, EMF	BMP, JPG, GIF, PNG, TIF, DIB, JPE, JFIF, JPEG, TIFF	BMP, JPG, GIF, PNG, TIF, WMF, EXIF, EMF	BMP, JPG, GIF, PNG, TIF, WMF, EXIF, EMF	BMP, JPG, GIF, PNG, TIF, DIB, JPE, JFIF, JPEG, TIFF	BMP, JPG, GIF, PNG, TIF, DIB, JPE, JFIF, JPEG, TIFF





Berg Engineering & Sales Co., Inc.  
 3893 Industrial Avenue • Rolling Meadows, IL • 60008  
 phone: (847) 577-3980 • fax: (847) 577-0474  
 www.bergeng.com • sales@bergeng.com

# Fluke Thermal Imager Comparison



Model Number	Ti10	Ti25	Ti32	TiR	TiR1	TiR32	TiS
<b>Applications</b>							
In plant electrical	Yes	Yes	Yes	No	No	Light Electrical	No
Electromechanical	Yes	Yes	Yes	No	No	Light Electomechanical	No
Mechanical systems	Yes	Yes	Yes	No	No	Light Mechanical	No
Process monitoring & installations	Yes	Yes	Yes	No	No		No
Building Diagnostics	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Electronics	Yes	Yes	Yes	No	No	No	No
Other	Yes	Yes	Yes	Yes	Yes	Yes	No
<b>IR-Fusion Technology</b>							
IR-Fusion Technology	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Full thermal	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Full visual light	In Software	In Software	In Software	In Software	In Software	In Software	No
Auto Blending	No	Yes	Yes	No	Yes	Yes	No
Picture in Picture	Yes	Yes	Yes	Yes	Yes	Yes	No
Color Alarm	In Software Only	In Software Only	Yes (Hi Temp)	In Software Only	In Software Only	Yes (Dew Point)	No
<b>Temperature Measurement</b>							
Temperature range	-20 °C to 600 °C (-4 °F to 1112 °F)	-20 °C to 350 °C in 2 ranges (-4 °F to 662 °F in 2 ranges)	-20 °C to 250 °C in 2 ranges (-4 °F to 482 °F in 2 ranges)	-20 °C to 100 °C (-4 °F to 212 °F)	-20 °C to 100 °C (-4 °F to 212 °F)	-20 °C to 150 °C (-4 °F to 302 °F)	-20 °C to 100 °C (-4 °F to 212 °F)
High Temperature Option	No	No	No	No	No	No	No
Accuracy	±5 °C or 5% whichever is greater	±2 °C or 2% whichever is greater	±2 °C or 2% whichever is greater	±5 °C or 5% whichever is greater	±2 °C or 2% whichever is greater	±2 °C or 2% whichever is greater	±5 °C or 5% whichever is greater
Emissivity correction	In Software Only	Yes	Yes	In Software Only	Yes	Yes	In Software Only