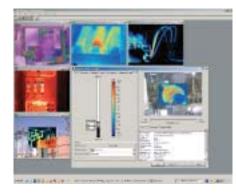


Ti40/Ti50 Series IR FlexCam[®] Thermal Imagers



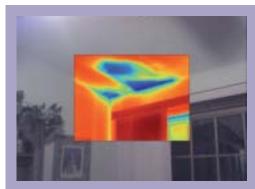
SmartView[™] Software

Fluke SmartView[™] software is included with each Fluke IR FlexCam[®] Thermal Imager. This powerful software is a modular suite of tools that annotates, views, edits and analyzes IR images. It also generates fully customizable and professional-looking reports in a few easy steps. The IR-Fusion technology is fully supported.



Complete package

The IR FlexCam thermal imagers are delivered as a complete package.



Building Diagnostics

Fluke also offers a line of thermal imagers for Building Diagnostics, the IR Insight and the TiR Series. Some typical applications are industrial roofing, moisture remediation, energy audits and home inspection. For more information on these thermal imagers please check the Fluke web.

	(Check the Fluk	e web for c	ietalied spe	ecifications)
	Ti40	Ti45	Ti50	Ti55
Thermal Imaging performance				
Field of view (FOV)*		23º horizonta	l x 17º vertica	ıl
Spatial resolution (IFOV)*	2.60	2.60 mrad 1.30 mrad		mrad
Min focus distance*		0.15 m		
Thermal sensitivity (NETD) at 30 °C	≤0.09 °C	≤0.08 °C	≤0.07 °C	≤0.05 °C
Detector data acquisition / Image frequency	30 Hz	/30 Hz	60 Hz	/60 Hz
Focus	SmartH	SmartFocus; one finger continuous focus		
IR digital zoom		2x	2x	2x, 4x. 8x
Detector size	160 :	x 120	320	x 240
Detector type	Focal Plane	Focal Plane Array, Vanadium Oxide (VOx) Uncooled Microbolometer		
Spectral band		8 µm to	o 14 µm	
Visual Imaging performance (Fusion models only)				
On-camera operating modes				
- Picture-in-Picture	•	•	•	•
- Full thermal, full visual light or merged thermal-visual images	Smartview	•	•	•
Visible light camera	1	280 x 1024 p	oixels, full col	or
Visible light digital zoom		2x	2x	2x, 4x. 8x
Temperature measurement		I	1	1
Calibrated temperature range	-20 to 350 °C	-20 to 600 °C	-20 to 350 °C	-20 to 600 °C
1200 °C High temperature option		•		
Accuracy	±2°	C or 2 % (whi	ichever is gre	ater)
Measurement modes				
- Centerpoint, center box (area min/max, average)	•	•	•	•
- Moveable spots/boxes		•		
		•		•
 Isotherms, automatic hot and cold point detection, 		•		•
 Isotherms, automatic hot and cold point detection, Visible color alarm above and below 		-		-
- Visible color alarm above and below		•	01 increments	•
- Visible color alarm above and below Emissivity correction		•	01 increments	•
- Visible color alarm above and below Emissivity correction Image presentation		• 0.1 to 1.0 (0.0		•
Visible color alarm above and below Emissivity correction Image presentation Digital display	5" lar	• 0.1 to 1.0 (0.0 ge high-resol	ution backlig	• • • • •
- Visible color alarm above and below Emissivity correction Image presentation	5" lar RS170 El/ Grayscale, gra	• • 0.1 to 1.0 (0.0 ge high-resol A/NTSC or CC: ayscale invert	ution backlig IR/PAL compo ed, blue red,	• • • • • • • • • • • • • • • • • • •
Visible color alarm above and below Emissivity correction Image presentation Digital display Video output Palettes	5" lar RS170 El/ Grayscale, gra	• 0.1 to 1.0 (0.0 ge high-resol A/NTSC or CC.	ution backlig IR/PAL compo ed, blue red,	• • • • • • • • • • • • • • • • • • •
Visible color alarm above and below Emissivity correction Image presentation Digital display Video output Palettes Optional lenses	5" lar RS170 EI/ Grayscale, gra hot met	• 0.1 to 1.0 (0.0 ge high-resol 4/NTSC or CC ayscale invert al, ironbow, a	ution backlig IR/PAL compo ed, blue red, mber, amber	• • bt LCD psite video high contrast, inverted
Visible color alarm above and below Emissivity correction Image presentation Digital display Video output Palettes Optional lenses 54 mm Telephoto lens	5" lar RS170 EI/ Grayscale, gra hot met	e 0.1 to 1.0 (0.0 ge high-resol A/NTSC or CC. ayscale invert al, ironbow, a gh precision (ution backlig IR/PAL compo ed, blue red, mber, amber Germanium le	the LCD the second se
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- Visible color alarm above and below Emissivity correction Image presentation Digital display Video output Palettes Optional lenses 54 mm Telephoto lens Field of view (FOV) Spatial resolution (IFOV)	5" lar RS170 EI/ Grayscale, gr hot met Hi	O.1 to 1.0 (0.0 ge high-resol A/NTSC or CC ayscale invert al, ironbow, a gh precision (9° horizontal mrad	ution backlig IR/PAL compo red, blue red, mber, amber Germanium le I x 6° vertical 0.47	the LCD the second se
Visible color alarm above and below Emissivity correction Image presentation Digital display Video output Palettes Optional lenses 54 mm Telephoto lens Field of view (FOV) Spatial resolution (IFOV) Min focus distance	S" lar RS170 EI/ Grayscale, gr hot met Hi 0.94	O.1 to 1.0 (0.0 ge high-resol A/NTSC or CC ayscale invert al, ironbow, a gh precision (9° horizontal mrad 0.6	ution backlig IR/PAL compr ed, blue red, mber, amber Germanium le I x 6° vertical 0.47 5 m	the LCD basite video high contrast, inverted ens mrad
Visible color alarm above and below Emissivity correction Image presentation Digital display Video output Palettes Optional lenses 54 mm Telephoto lens Field of view (FOV) Spatial resolution (IFOV) Min focus distance 10.5 mm wide angle lens	S" lar RS170 E1/ Grayscale, gr hot met Hi 0.94 Hi	O.1 to 1.0 (0.0 ge high-resol A/NTSC or CC ayscale invert al, ironbow, a gh precision (9° horizontal mrad 0.6 gh precision (ution backligi IR/PAL compo ed, blue red, mber, amber Germanium le 1 x 6° vertical 0.47 3 m Germanium le	the LCD bosite video high contrast, inverted mrad ens
Visible color alarm above and below Emissivity correction Image presentation Digital display Video output Palettes Optional lenses 54 mm Telephoto lens Field of view (FOV) Spatial resolution (IFOV) Min focus distance 10.5 mm wide angle lens Field of view (FOV)	5" lar RS170 EI/ Grayscale, gr hot met Hi 0.94 Hi	O.1 to 1.0 (0.0 ge high-resol [4/NTSC or CC ayscale invert al, ironbow, a gh precision (9° horizontal mrad 0.6 gh precision (42° horizontal	ution backligi IR/PAL compo ed, blue red, mber, amber Germanium le 1 x 6° vertical 0.47 5 m Germanium le 1 x 32° vertica	the LCD bosite video high contrast, inverted mrad mrad
Visible color alarm above and below Emissivity correction Image presentation Digital display Video output Palettes Optional lenses 54 mm Telephoto lens Field of view (FOV) Spatial resolution (IFOV) Min focus distance 10.5 mm wide angle lens Field of view (FOV) Spatial resolution (IFOV)	5" lar RS170 EI/ Grayscale, gr hot met Hi 0.94 Hi	O.1 to 1.0 (0.0 ge high-resol A/NTSC or CC ayscale invert al, ironbow, a gh precision (9° horizontal mrad O.6 gh precision (42° horizontal mrad	ution backlig IR/PAL compresent ed, blue red, mber, amber Germanium le 1 x 6° vertical 0.47 5 m Germanium le 1 x 32° vertica 2.45	the LCD bosite video high contrast, inverted mrad mrad
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Visible color alarm above and below Emissivity correction Image presentation Digital display Video output Palettes Optional lenses 54 mm Telephoto lens Field of view (FOV) Spatial resolution (IFOV) Min focus distance 10.5 mm wide angle lens Field of view (FOV) Spatial resolution (IFOV) Min focus distance Infage and data storage Storage medium	S" lar RS 170 EI/ Grayscale, gr hot met Hi 0.94 Hi 0.94 Compact flash	O.1 to 1.0 (0.0 ge high-resol A/NTSC or CC A/NTSC or CC A/NTSC or CC a/syscale invert al, ironbow, a gh precision (9° horizontal mrad 0.6 gh precision (42° horizontal mrad 0.3 a card (512Mb)	ution backlig IR/PAL compo ed, blue red, mber, amber Germanium le 1 x 6° vertical 0.47 5 m Germanium le 1 x 32° vertica 2.45 3 m stores over 1	the LCD basite video high contrast, inverted mrad mrad mrad 0000 IR images
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- Visible color alarm above and below Emissivity correction Image presentation Digital display Video output Palettes Optional lenses 54 mm Telephoto lens Field of view (FOV) Spatial resolution (IFOV) Min focus distance 10.5 mm wide angle lens Field of view (FOV) Spatial resolution (IFOV) Min focus distance Image and data storage Storage medium File formats supported Interface Included software Included software	S" lar RS 170 EI/ Grayscale, gr hot met Hi 0.94 Hi 0.94 Hi 0.94 Hi 0.94 Compact flash 14 bit measure Com	O.1 to 1.0 (0.0 ge high-resol A/NTSC or CC ayscale invert al, ironbow, a gh precision (9° horizontal mrad 0.6 gh precision (42° horizontal mrad 0.3 a card (512Mb) ement data inc	ution backlig IR/PAL compre- ed, blue red, mber, amber Germanium le I x 6° vertical 0.47 5 m Germanium le I x 32° vertica 2.45 3 m stores over 1 stores over 1 stores over 1 rd reader incl	the LCD osite video high contrast, inverted mrad mrad OOO IR images BMP, PCX, PNG luded
Visible color alarm above and below Emissivity correction Image presentation Digital display Video output Palettes Optional lenses 54 mm Telephoto lens Field of view (FOV) Spatial resolution (IFOV) Min focus distance 10.5 mm wide angle lens Field of view (FOV) Spatial resolution (IFOV) Min focus distance Indige and data storage Storage medium File formats supported Interface Included software Laser (IR-Fusion models only)	S" lar RS 170 EI/ Grayscale, gr hot met Hi 0.94 Hi 0.94 Hi 0.94 Hi 0.94 Compact flash 14 bit measure Com	O.1 to 1.0 (0.0 ge high-resol A/NTSC or CC ayscale invert al, ironbow, a gh precision (9° horizontal mrad 0.6 gh precision (42° horizontal mrad 0.3 a card (512Mb) ement data inc apact flash car ; Full analysis	ution backlig IR/PAL comp ed, blue red, mber, amber Germanium le I x 6° vertical 0.47 5 m Germanium le I x 32° vertica 2.45 3 m stores over 1 chuded. JPEG, 1 rd reader incl s and reportin	
- Visible color alarm above and below Emissivity correction Image presentation Digital display Video output Palettes Optional lenses 54 mm Telephoto lens Field of view (FOV) Spatial resolution (IFOV) Min focus distance 10.5 mm wide angle lens Field of view (FOV) Spatial resolution (IFOV) Min focus distance Image and data storage Storage medium File formats supported Interface Included software Included software	S" lar RS170 EI/ Grayscale, gr hot met Hi O.94 Hi O.94 Hi Compact flash 14 bit measure Com	O.1 to 1.0 (0.0 ge high-resol A/NTSC or CC ayscale invert al, ironbow, a gh precision (9° horizontal mrad 0.6 gh precision (42° horizontal mrad 0.3 a card (512Mb) ement data inc apact flash car ; Full analysis	ution backligi IR/PAL compresent ed, blue red,, mber, amber Germanium le 1 x 6° vertical 0.47 3 m Germanium le 1 x 32° vertice 2.45 3 m stores over 1 cluded. JPEG, 1 rd reader incl s and reportin ss II	

Controls and adjustm	ents
Set-up controls	
Image controls	
On-screen indicators	

*standard 20 mm Germanium lens

Battery life: 3 hours continuous operation (2 hours on FT models) Water and dust resistant: IP54 Size (HxWxD): 162 mm x 262 mm x 101 mm Weight: 1.85 kg Two Years Warranty





Battery Charger

Recommended Accessories



103232 Anti-glare Hood

104543 Car charger

Ti-SBP **Rechargeable Battery**

Specifications

2.5 HOHZOHIdi X 17 Vertical						
2.60 mrad		1.30 mrad				
0.15 m						
≤0.08 °C	≤0.07 °C	≤0.05 °C				
/30 Hz	60 Hz/60 Hz					
SmartFocus; one fing		s focus				
2x	2x	2x, 4x. 8x				
x 120	320 x	240				
Focal Plane Array, Vanadium Oxide (VOx) Uncooled Microbolometer						
8 µm to	ο 14 μm					
•	•	•				
•	٠	•				
280 x 1024 p	ixels, full colo	or				
2x	2x	2x, 4x. 8x				
-20 to 600 °C	-20 to 350 °C	-20 to 600 °C				
•						
C or 2 % (whi	chever is grea	ater)				
•	٠	•				
•		•				
•		•				
•		•				
0.1 to 1.0 (0.0	1 increments					
5" large high-resolution backlight LCD						
A/NTSC or CCI	IR/PAL compo	site video				
ayscale invert	ed, blue red,	high contrast,				
High precision Germanium lens						
9° horizontal x 6° vertical						
0.94 mrad		0.47 mrad				
0.6 m						
High precision Germanium lens						
42° horizontal x 32° vertical						
	2.45 mrad					
mrad	2.45	maa				
mrad 0.3						
1	m					
	mrad 0.18 ≤0.08 °C /30 Hz °ocus; one fing 2x x 120 Array, Vanadi Microbo 8 μm tc 280 x 1024 p 2x -20 to 600 °C 0 2x -20 to 600 °C 0 0 0 0 0 0 0 0 0 0 0 0 0	mrad 1.30 0.15 m ≤0.08 °C ≤0.07 °C /30 Hz 60 Hz, 60 Hz, /ocus; one finger continuou 2x 2x x 120 320 x Array, Vanadium Oxide (VC Microbolometer 8 µm to 14 µm • • • • • • • • • • • • • • • • • • • • • • • • • • 280 x 1024 pixels, full colo 22x 2x -20 to 600 °C -20 to 350 °C • C or 2 % (whichever is greater • • • • • • • • • • • • • • • • • • • • • • • • •				

Date/time, °C/°F, language, scale, LCD intensity Level, span, auto adjust (continuous/manual)

Battery status, emissivity, background temperature and real time clock

Pack