THERMAL IMAGING INFRARED CAMERA

MODEL 1950 & 1954

Versatile tool for performing infrared thermography Indispensable means for ensuring safety in industrial application

SPECIFICATIONS

MODEL	1950	1954				
IR DETECTOR	1350	1554				
Туре	LIEPA mic	crobolometer				
Spectral Range						
Resolution	8~14µm 80 x 80 120 x 160					
IMAGING PERFORMANCE		120 / 100				
NETD	80mK @ 86°F (30°C)					
Frequency		9Hz				
Field of View	20° x 20°	28° x 38°				
IFOV (spatial resolution)	4.4mrad	4.1mrad				
Minimal Focal Distance	1.3 ft (0.4m), fixed focus	0.98ft (0.3m), fixed focus				
FOCUSING						
Adjustment	F	Fixed				
VISUAL IMAGE						
Resolution	240 x 320 pixels	480 x 640 pixels				
Minimal Focal Distance	2" (0.05cm), fixed focus					
PRESENTATION OF IMAGES						
Images Displayed	Infrared image, visual image with automatic parallax compensation.					
• • • •	Merging of both images is possible with included PC software					
LCD Screen	2.8" (7.1cm)					
Display Colors	Pseudo-colors, multiple palettes					
FUNCTIONS						
Image Freezing	Animated or fixed image					
	2GB Micro SD card included (approx. 4,000 images). Replaceable with up to 32 GB SD card					
MEASUREMENT						
Temperature Range	-4°F to 482°F (-20°C to 250°C)					
Accuracy	$\pm 3.6^{\circ}$ F ($\pm 2^{\circ}$ C) or $\pm 2\%$ of reading					
ANALYSIS FUNCTIONS						
Measurement Tools	Manual cursor, automatic detection, min/max/avg on adjustable area, temperature profile, and isotherm					
Adjustment	Automatic or manual adjustment palette min-max					
Parameter Settings	Emissivity, environmental temperature, distance, relative humidity					
Isotherm Display	Color display of a temperature range adjustable by the user					
Voice Recordings	via Bluetooth headset (included)					
ENVIRONMENTAL SPECIFIC	CATIONS					
Operating Temperature	-4° to 122°F (-15° to 50°C); 95% RH					
Storage Temperature	-40° to 158°F (-40° to 70°C)					
Humidity	10% to 95%					
Drop Resistance	6' (2m) on all sides					
Impact Resistance	25G					
Vibration Resistance	2G					
Ingress Protection	IP54					
LASER POINTER						
Туре	-	Class 2 645-655nm power: 1mW				
GENERAL SPECIFICATIONS						
Start Up	Less than 3 seconds	Less than 10 seconds				
Safety Dewer Supply	EN 61326-1: 2006, EN 61010-1 Ed.02 4 x AA NiMH rechargeable batteries with external charger included					
Power Supply Laser	4 x AA NIMH rechargeable batte	Ŭ.				
Laser Laser Output	-	Class 2 < 1mW				
	-					
Laser Wavelength Software	- 645-655nm					
Tripod Mounting	CAmReport [®] software included, for data analysis and report generation					
Battery Life	1/4" insert on camera (tripod not included)					
Dimensions/Weight	13.30 hrs typical (11 hours minimum) 9 hrs typical (7 hours minimum) 8.86 x 4.92 x 3.27" (225 x 125 x 83mm) / 24.7oz (700g) with rechargeable batteries					
Bluetooth Product		407, 607 clamps, MTX3292 and MTX3293 and				
Communication	407, 607 clamps and MTX3293 dmm	logger models 1110, 1200 and 1800 Series				



MODEL 1954 Thermo Resolution 120 x 160

MODEL 1950 Thermo Resolution 80 x 80



FEATURES

- Focus-free with 20°x 20° field of view (model 1950) and 28°x 28° field of view (model 1954)
- Automatic brightness control
- Exceptionally long battery life
- Quick startup in 3 to 10 seconds (model dependent)
- User configurable emissivity table
- User configurable cursor and trigger functions
- User selectable color palette
- Captures thermal and real image simultaneously
- Verbally record your comments directly to the image using included Bluetooth[®] headset
- Wirelessly connect to AEMC[®] Clamp-on Meters and Multimeters, and environmental meters (model dependent) and record their measurements simultaneously with your thermograms
- Comprehensive CAmReport[®] software included that offers all the necessary functions for reliable analysis of the measurement results and report generation

ACCESSORIES

Carrying Case with Foam Insert Cat. #2121.60 Cable - USB (Type A to 5-pin Mini-B) Cat. #2126.49





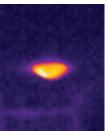
A comprehensive set of easy access menus are available on screen. You can use the function and navigation keys to easily configure the camera for your specific needs. Trigger functions can be programmed, color palettes can be selected, cursor tools can be configured as well as environmental conditions including ambient temperature and humidity, distance and emissivity.



SELECTABLE CURSOR TOOLS

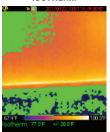
User programmable cursors provide a comprehensive set of options for evaluating thermal profiles





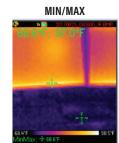
No cursor display, temperature evaluation is determined by color palette only.

ISOTHERM



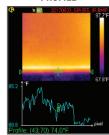
Displays points that fall in the same temperature range in the same color. User picks green, red or brown as the display color and defines the range and tolerance.



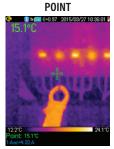


Automatically displays the cold and hot spot values at the Min and Max cursor positions.

PROFILE

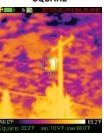


Displays the temperature profile of a horizontal line defined by the cursor. Cursor can be moved along the line to get an individual temperature.



Displays the value at the cursor. Cursor is movable using the navigation keys.

SQUARE



Displays the Min/Max and mean values within the box. Box size and location is user adjustable.

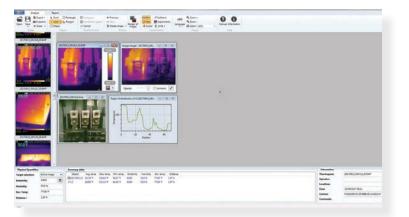
THERMAL IMAGING INFRARED CAMERA (CONTINUED)

CAMREPORT® SOFTWARE FOR ANALYZING THERMOGRAMS

This comprehensive software offers all the necessary functions for effective analysis of the measurement results and report generation

Operator :	Location :	Equipment:	Date :	
John Doe	Foxborough, MA	CA 1950	950 9/13/2017 9:14:12 AM	
Infrared im	age Digital i	image	Merged image	
			RBB	
0.07 °F	154.81 °F	60.07	°F 154.81 °F	
(8) (Feller	154.81 °F	- s-	154.81 %	
Image properties	20170913_091412_IR.BM		154,81 %	
Image properties Image name		-	154,81 %	
Image properties Image name Emissivity:	20170913_091412_IR.BMF		154,81 %	
Image properties Image name Emissivity: Humidity Environment temperature	20170913_091412_IR.BMF 0.88		154.81 °F	
Image properties Image name Emissivity: Humidity Environment	20170913_091412_IR.BMF 0.88 55.0 %		1945	
Image properties Image name Emissivity: Humidity Environment temperature	20170913_091412_IR.BMF 0.88 55.0 % 74.00 °F 1.75 ft		1945	

Report creation is automatic, using one of three available templates. Reports can be exported in Word or PDF format. This makes it simple to print and/or archive them.



Typical analysis tab screen

Thermal Imaging IR Camera Model 1950 (Resolution 80 x 80)

Thermal Imaging IR Camera Model 1954 (Resolution 120 x 160)

DESCRIPTION



FEATURES

- Transfer measurements from your camera to the software by USB cable, or transportable SD card
- Drag-and-drop measurement images from the storage directory to the analysis window in the software
- Includes thermal and real images automatically
- Superimpose thermal images over real images for better visual analytical results
- Locate Min/Max and mean temperatures of the image or an area of the image
- User selectable color palette from seven different types
- Summary table automatically displays environmental parameters and statistical results of the measurement
- Include dictated audio comments into the report with the Bluetooth[®] headset
- Includes multiple analytical tools for assessing thermal images
- Manually enter measurement analysis findings, site characteristics and operator information to your report.
- Add graphics such as logos to your reports
- Correct the measurement results using built-in or user configured emissivity tables
- Include multiple measurements in any report
- Save reports as a Word or PDF document

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CATALOG NO.

2121.40

2121.41