# 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			
Туре	UFPA microbolometer		
Spectral Range	8~14μm		
Resolution	80 x 80	120 x 160	
IMAGING PERFORMANCE			
NETD	80mK @ 86°F (30°C)		
Frequency	9Hz		
Field of View	20° x 20°	28° x 38°	
IFOV (spatial resolution)	4.4mrad	4.1mrad	
<b>Minimal Focal Distance</b>	1.3 ft (0.4m), fixed focus	0.98ft (0.3m), fixed focus	
FOCUSING			
Adjustment	Fixed		
VISUAL IMAGE			
Resolution	240 x 320 pixels	480 x 640 pixels	
Minimal Focal Distance	•	n), fixed focus	
PRESENTATION OF IMAGES			
		h automatic parallax compensation.	
Images Displayed	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	$\pm 3.6^{\circ}F(\pm 2^{\circ}C) \text{ or } \pm 2\% \text{ of reading}$		
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			
Operating Temperature		5° 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		06, EN 61010-1 Ed.02	
Power Supply		eries with external charger included	
Laser	-	Class 2	
Laser Output	_	< 1mW	
Laser Wavelength	-	645-655nm	
Software	CAmReport <sup>®</sup> software included, for data analysis and report generation		
Tripod Mounting	1/4" insert on camera (tripod not included)		
Battery Life	13.30 hrs typical (11 hours minimum) 9 hrs typical (7 hours minimum)		
Dimensions/Weight	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<sup>®</sup> headset
- Wirelessly connect to AEMC<sup>®</sup> Clamp-on Meters and Multimeters, and environmental meters (model dependent) and record their measurements simultaneously with your thermograms
- Comprehensive CAmReport<sup>®</sup> 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





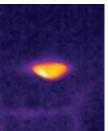
A comprehensive set of easy access menus are available on screen. You can use the function and navigation keys to easily configure the camera for your specific needs. Trigger functions can be programmed, color palettes can be selected, cursor tools can be configured as well as environmental conditions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



#### SELECTABLE CURSOR TOOLS

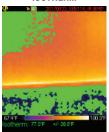
User programmable cursors provide a comprehensive set of options for evaluating thermal profiles





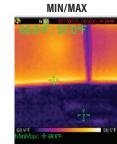
No cursor display, temperature evaluation is determined by color palette only.

#### ISOTHERM



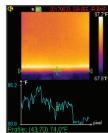
Displays points that fall in the same temperature range in the same color. User picks green, red or brown as the display color and defines the range and tolerance.



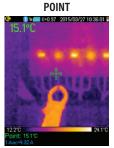


Automatically displays the cold and hot spot values at the Min and Max cursor positions.

PROFILE

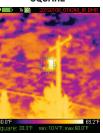


Displays the temperature profile of a horizontal line defined by the cursor. Cursor can be moved along the line to get an individual temperature.



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

**SQUARE** 

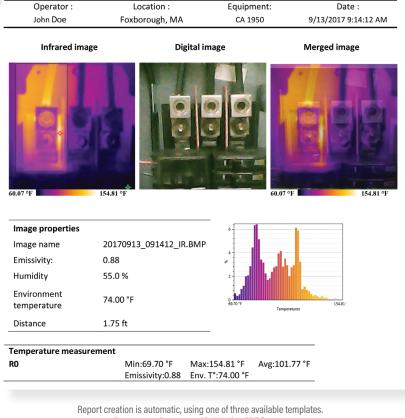


Displays the Min/Max and mean values within the box. Box size and location is user adjustable.

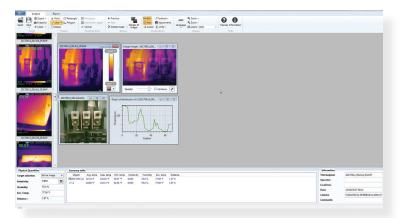
# THERMAL IMAGING INFRARED CAMERA (CONTINUED)

# **CAMREPORT® SOFTWARE FOR ANALYZING THERMOGRAMS**

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



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

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## **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<sup>®</sup> 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

CATALOG NO.	DESCRIPTION	
2121.40	Thermal Imaging IR Camera Model 1950 (Resolution 80 x 80)	
2121.41	Thermal Imaging IR Camera Model 1954 (Resolution 120 x 160)	