# THERMAL IMAGING CAMERAS INFRARED CAMERAS

## MODELS 1950 & 1954

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

# **SPECIFICATIONS**

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MODEL	1950	1954		
IR DETECTOR				
Туре	UFPA microbolometer			
Spectral Range	8~14μm			
Resolution	80 x 80	120 x 160		
MAGING PERFORMANCE				
NETD	80mK	@ 86°F (30°C)		
Frequency		9Hz		
ield of View	20° x 20°	28° x 38°		
FOV (spatial resolution)	4.4mrad	4.1mrad		
Minimal Focal Distance	1.3 ft (0.4m), fixed focus	0.98 ft (0.3m), fixed focus		
OCUSING				
Adjustment		Fixed		
/ISUAL IMAGE				
Resolution	240 x 320 pixels	480 x 640 pixels		
Minimal Focal Distance	2" (0.05	icm), fixed focus		
PRESENTATION OF IMAGES				
mages Displayed	Infrared image, visual image	with automatic parallax compensation		
		possible with included PC software		
.CD Screen	2.8" (7.1cm)			
Display Colors	Pseudo-colo	ors, multiple palettes		
ASER POINTER				
ype	_	Class 2 645-655nm power: 1mW		
UNCTIONS				
mage Freezing	Animated or fixed image			
Data Storage		cluded (approx. 4,000 images) ith up to 32 GB SD card		
MEASUREMENT	Treplaceable w	iii up to 32 db 3b caid		
emperature Range	-4°F to 482°F (-20°C to 250°C)			
Accuracy	±3.6°F (±2°C) or ±2% of reading			
ANALYSIS FUNCTIONS		o, o. ==/0 o. rodag		
Weasurement 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, and relative humidity			
sotherm Display	Color display of a temperature range adjustable by the user			
loice Recordings	via Biuetoot	h headset (included)		
ENVIRONMENTAL	40 to 4000E /	450 to 5000), 050/ BH		
Operating Temperature	-4° to 122°F (-15° to 50°C); 95% RH			
Storage Temperature	-40° to 158°F (-40° to 70°C)			
lumidity	10% to 95%			
Orop Resistance	6' (2m) on all sides			
mpact Resistance /ibration Resistance	25G			
		2G		
ENERAL	Loss than 2 seconds	Loss than 10 seconds		
Start Up	Less than 3 seconds	Less than 10 seconds		
Power Supply		tteries with external charger included		
.aser/Output/Wavelength	-/-/-	Class 2 / < 1mW / 645-655nm		
Tripod Mounting		mera (tripod not included)		
Battery Life	13.30 hrs typical (11 hours minimum)	9 hrs typical (7 hours minimum)		
Dimensions/Weight  Bluetooth Communication	407, 607 clamps and DMMs MTX 3292B-BT and MTX 3293B-BT	m) / 24.7oz (700g) with rechargeable batteries 407, 607 clamps, DMMs MTX 3292B-BT an MTX 3293B-BT and logger models 1110,		
Cofety Deting / ID Dretection		1200 and 1800 Series		



**THERMO RESOLUTION** 1950: 80 X 80 I 1954: 120 X160









## **FEATURES**

- Focus-free with 20° x 20° field of view (1950) and 28° x 38° field of view (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, 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/ REPLACEMENTS

CATALOG #2121.60

Carrying case with foam insert

CATALOG #2126.49

USB cable Type A to 5-pin Mini-B

Consult factory for NIST Calibration prices



# THERMAL IMAGING CAMERAS INFRARED CAMERAS



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.





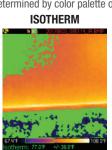




# SELECTABLE CURSOR TOOLS

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

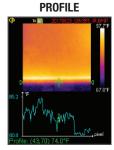
No cursor display, temperature evaluation is determined by color palette only.



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.

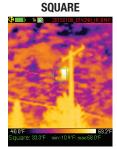


Displays the temperature profile of a horizontal line defined by the cursor. Cursor can be moved along the line to get an individual temperature.

www.GlobalTestSupply.com



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



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



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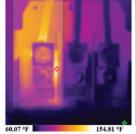
# THERMAL IMAGING CAMERAS INFRARED CAMERAS

# CAMREPORT® SOFTWARE FOR ANALYZING THERMOGRAMS

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









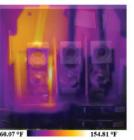
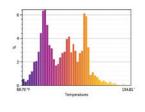


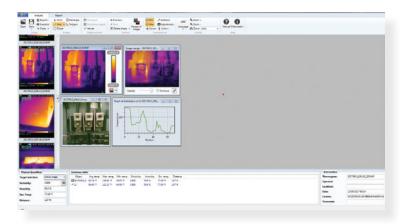
Image properties	
Image name	20170913_091412_IR.BMF
Emissivity:	0.88
Humidity	55.0 %
Environment temperature	74.00 °F
Distance	1.75 ft



Temperature measurement			
RO	Min:69.70 °F	Max:154.81 °F Env. T°:74.00 °F	Avg:101.77 °F
	Emissivity:0.88	ENV. 1 :/4.00 F	

Report creation is automatic, using one of three available templates.

Reports can be exported in Word or PDF format making it simple to print and/or archive them.



Typical analysis tab screen

## **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

## PRODUCT INCLUDES

Carrying case, USB cable, external battery charger (*Cat. # 2121.41 only*), (4) NiMH rechargeable batteries, micro SD card with adapter, Bluetooth headset, printed quick start guide, and a USB drive with CAmReport software, and user and software manuals.

CATALOG NO.	DESCRIPTION
2121.40	Thermal Imaging IR Camera Model 1950 (Resolution 80 x
2121 41	Thermal Imaging IR Camera Model 1954 (Resolution 120)



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