THERMAL IMAGING CAMERA

INFRARED CAMERA

MODEL 1954

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

THERMO RESOLUTION
(120 X 160) Pixels

FEATURES

- Focus-free with (28 x 38) ° field of view
- Automatic brightness control
- Exceptionally long battery life
- Quick startup in less than 10 seconds
- 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® Instruments Clamp-on Meters, and Environmental Meters 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

CAT. #2121.60 Carrying case with foam insert
CAT.#2126.49 USB cable Type A to 5-pin Mini-B

MODEL	1954
IR DETECTOR	
Type	UFPA microbolometer
Spectral Range	8~14 µm
Resolution	(120 x 160) pixels
IMAGING PERFORMANCE	
NETD	< 80 mK @ 86 °F (30 °C)
Frequency	9 Hz
Field of View	(28 x 38) °
IFOV *(spatial resolution)*	4.1 mrad
Minimal Focal Distance	0.98 ft (0.3 m), fixed focus
FOCUSING	
Adjustment	Fixed
VISUAL IMAGE	
Resolution	(480 x 640) pixels
Minimal Focal Distance	2 in (5 cm), 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 in (7.1 cm)
Display Colors	Pseudo-colors, multiple palettes
LASER POINTER	
Type	Class 2 645-655 nm power: 1 mW
FUNCTIONS	
Image Freezing	Animated or fixed image
Data Storage	2 GB Micro SD card included *(approximately 4000 images)* Replaceable with up to 32 GB SD card
MEASUREMENT	
Temperature Range	(-4 to 482) °F (-20° to 250) °C
Accuracy	± 3.6 °F (± 2 °C) or ± 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, and relative humidity
Isotherm Display	Color display of a temperature range adjustable by the user
Voice Recordings	via Bluetooth® headset *(included)*
ENVIRONMENTAL	
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 ft (2 m) on all sides
Impact Resistance	25 G
Vibration Resistance	2 G
GENERAL	
Start Up	Less than 10 s
Power Supply	(4) AA NiMH rechargeable batteries with external charger included
Laser / Output / Wavelength	Class 2 / < 1 mW / 645-655 nm
Tripod Mounting	1/4 in insert on camera *(tripod not included)*
Battery Life	9 h typical *(7 h minimum)*
Dimensions / Weight	(8.86 x 4.92 x 3.27) in (225 x 125 x 83) mm / 24.7 oz (700 g) with rechargeable batteries
Bluetooth® Communication	407, 607 Clamps, and Logger Models 1110, 1200 and 1800 Series
Safety Rating	EN 61326-1: 2006, EN 61010-1 Ed.02

Consult factory for NIST Calibration prices.

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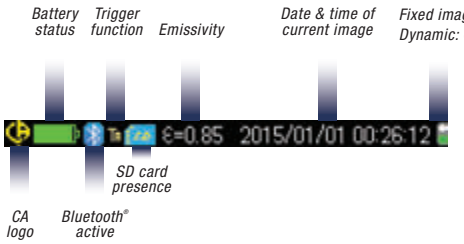
DISPLAY & MENU CONTENTS

STATUS BAR



MENU
Selectable using navigation keys

CONTEXTUAL HELP
This display area updates based on the menu item selected

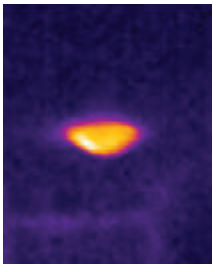
FUNCTION KEYS
Linked to selected menu choice or camera image

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

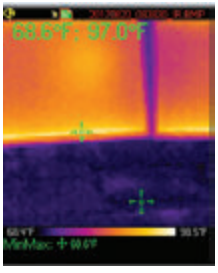
User programmable cursors provide a comprehensive set of options for evaluating thermal profiles

NONE



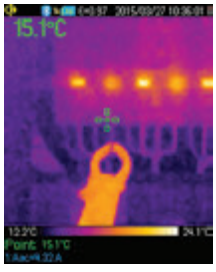
No cursor display, temperature evaluation is determined by color palette only.

MIN/MAX



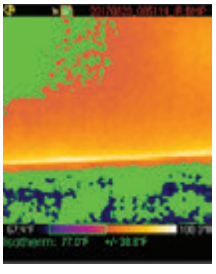
Automatically displays the cold and hot spot values at the Min and Max cursor positions.

POINT



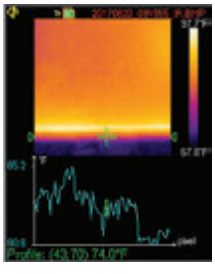
Displays the value at the cursor. Cursor is movable using the navigation keys.

ISOTHERM



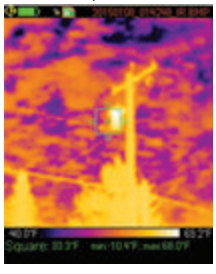
Displays points that fall in the same temperature range in the same color. User picks green, red or brown as the display color and defines the range and tolerance.

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.

SQUARE



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

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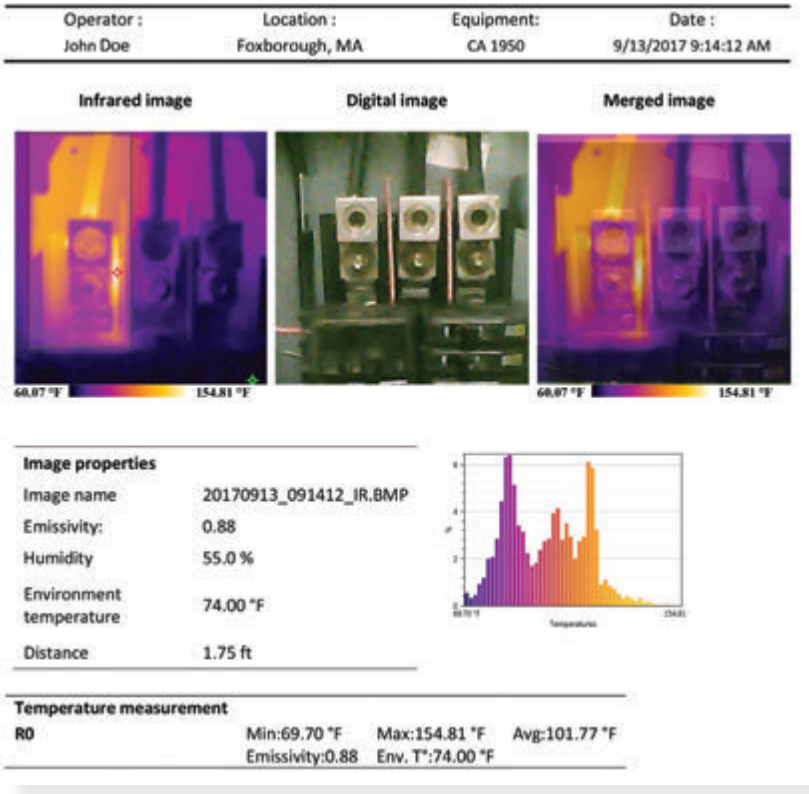
CAmReport SOFTWARE FOR ANALYZING THERMOGRAMS

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

USB drive with software and manuals

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



Operator :	Location :	Equipment:	Date :
John Doe	Foxborough, MA	CA 1950	9/13/2017 9:14:12 AM

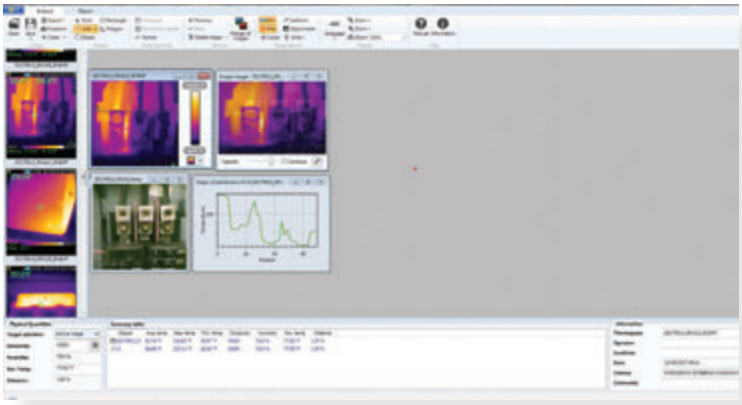
Infrared image | Digital image | Merged image

60.07 °F 154.81 °F | 60.07 °F 154.81 °F

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

Temperature measurement			
R0	Min:69.70 °F	Max:154.81 °F	Avg:101.77 °F
	Emissivity:0.88	Env. T°:74.00 °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

PRODUCT INCLUDES

Carrying case, USB cable, external battery charger, (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.

CAT. #	DESCRIPTION
2121.41	Thermal Imaging IR Camera Model 1954 (Resolution 120 x 160)