Special product features ▼

FOCUS FREE

13 HOUR BATTERY LIFE

AUTO TEMP DRIFT COMPENSATION

Model 1950

Versatile tool for performing infrared thermography

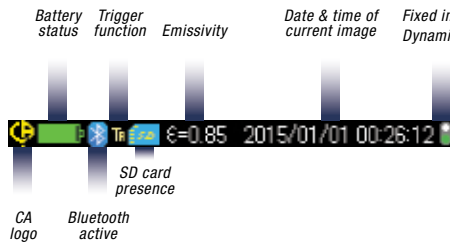## Indispensable means for ensuring safety in industrial production

NEW!

▶ **SPECIFICATIONS**

MODEL	1950
IR Detector	
Type	UFPA microbolometer
Spectral Range	8~14µm
Resolution	80 x 80
IR Imaging Performance	
NETD	80mK at 86°F (30°C) [0.1° at 30°C]
Frequency	9Hz
Field View	20° x 20°
IFOV (Spatial Resolution)	4.4mrad
Min Focal Distance	15.6" (39.6cm)
Focusing	
Adjustment	Focus free
Visual Image	
Built-in Digital Video	240 x 240 pixels
Min Focal Distance	2" (5cm)
Presentation of Images	
Images Displayed	Infrared image, real image
LCD Screen	2.8" (7.1cm) (240 x 240 pixels)
Image Display	Multiple palettes selectable
Functions	
Image Freezing	Moving or frozen image
Storage	Micro SD and SD HC card
Measurement	
Temperature Range	-4° to 482°F (-20° to 250°C)
Accuracy	±2°C (±3.6°F) or ±2%
Analysis Functions	
Analysis Tools	Point cursor, area cursor, temperature profile, minimum/maximum, cursor and isothermal
Adjustment	Automatic or manual adjustment of the minimum/maximum palette
Correction	Emissivity, distance, ambient temperature, relative humidity
Isotherm Display	Color display of a temperature range adjustable by the user
Voice Recordings	Via *Bluetooth* headset
Software	CAmReport analysis & report writing software
Power Source	NiMH, low self-discharge battery; Battery Life: 13h30 typical (11h min)
Safety	EN61326-1, EN61010-1-Ed.02
Environmental Specifications	
Operating Temperature	-4° to 122°F (-15° to 50°C)
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
Protection	IP54
Dimensions/Weight	8.86 x 4.92 x 3.27" (225 x 125 x 83mm)/25oz (700g)

IP 54 Rated   CE   ▣   Bluetooth   USB

▶ **FEATURES**

- Focus-free with 20°x 20° field of view

- Automatic brightness control

- Exceptional 13-hour battery life

- Quick startup in under 3 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 Clamp-on Meters and Multimeters and record electrical 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

Technical Assistance (800) 343-1391

AEMC®
INSTRUMENTS

Status Bar

Battery status | Trigger function | Emissivity | Date & time of current image | Fixed image: ● Dynamic: ●

€=0.85   2015/01/01 00:26:12

SD card presence

CA logo | Bluetooth active

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.

Select Cursor measurements or palette.

Use arrow keys to select a character and press F2 to add it to the new filename. Press F1 to validate the input.

Activate user influence parameters correction or the default one.

Press F2 to start recording the voice message. F3 to exit (no file will be created).
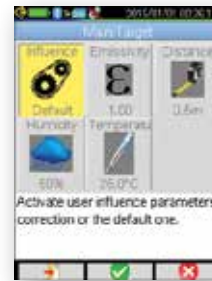
Selectable Cursor Tools

User programmable cursors provide a comprehensive set of options for evaluating thermal profiles
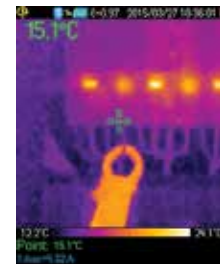
NONE

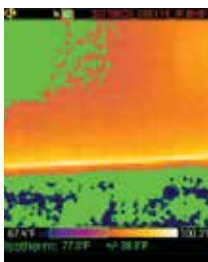*No cursor display, temperature evaluation is determined by color palette only.*

MIN/MAX
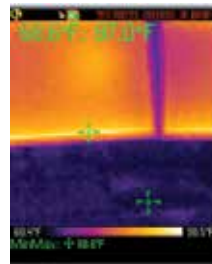
Automatically displays the cold and hot spot values at the Min and Max cursor positions.
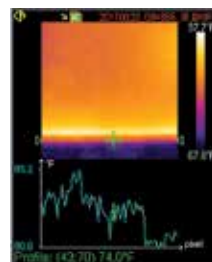
POINT

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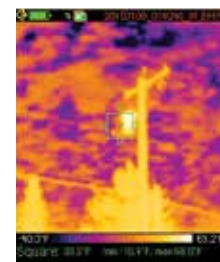
ISOTHERM

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.

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.
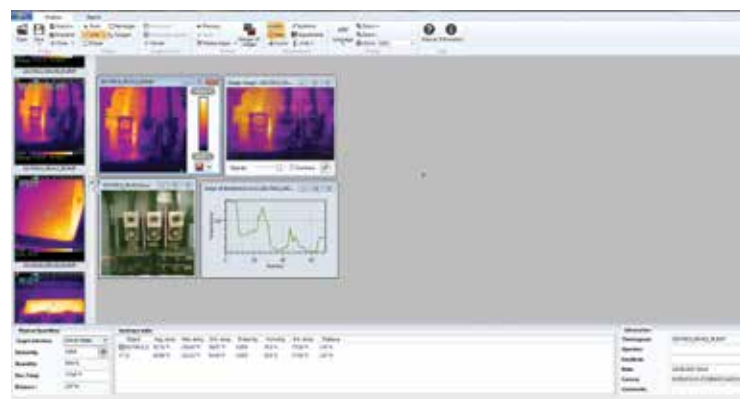
Typical analysis tab screen

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

CATALOG NO.	DESCRIPTION
2121.40	Thermal Imaging IR Camera Model 1950