



## DT-9868

### Economical Thermal Imager

The device is a professional Infrared 32x31 pixels imager thermometer with 2.2" color TFT LCD Display, 32x31 pixels imager & a Micro SD card for capturing images (BMP) for viewing on your PC, providing fast, easy and accurate reading for most surface temperature measurement. This product combines the convenience of an infrared thermometer with the visual advantage of a thermal imager creating a brand new tool category -a troubleshooting camera with infrared heat map.



#### FEATURES

- 2.2" 320x240 TFT LCD Display
- IR Temperature Measurement with Resolution 32x31 pixels
- Image Capture Frequency 9Hz
- Thermal Sensitivity (NETD)  $\leq 150\text{mK}$
- Hot Spot and Cold Spot Traking
- Visual Camera & Images Capature (BMP)
- Micro SD Memory Card
- Date / Time Setup Controls, Adjustable Emissivity & Trigger lock
- Li-Ion Rechargeable Battery
- USB Interface for Charge and download Image form SD Memory

### SPECIFICATIONS

Temperature	
Temperature Measurement Range	-20°C to + 300°C
Temperature Measurement Accuracy	±2% ± 2°C as tested (at 25°C)
On-Screen Emissivity Correction	Yes
On-Screen Reflected Background Temperature Compensation	Yes
Image Performance	
Image Capture Frequency	9 Hz
Detector Type	Uncooled pyroelectric ceramic
Thermal Sensitivity (NETD)	≤150 mK
Infrared Spectral Band	6.5 μm to 14 μm
Visual Camera	48608 pixels
Field of View	38 x 38 Degrees
Focus Mechanism	Fixed Focus
Image Presentation	
Palettes	Hot Metal, Ironbow, Rainbow, Rainbow High Contrast, Grayscale (white hot) and Grayscale (black hot)
Level and Span	Auto
Blending Information	
Parallax Correction of Visual and IR Blending	0.5m, 1.0m, 2.0m, 3.0m
View Options	Blending of the visual and the infrared from full infrared to full visual in 25% steps
Hot Spot and Cold Spot Tracking	Yes
Image capture and data storage	
Image Capture	Image available for review before a save
Storage Medium	Micro SD memory card, stores up to 6,000 images / GB
File Format	BMP
Memory Review	Scroll through all saved images and view on-screen
Operating Temperature	0°C to + 50°C
Storage Temperature	-20°C to + 60°C
Relative Humidity	10% to 90% non-condensing
Display	2.2 in diagonal 320*240 TFT LCD
Overload Display	-

**32  
X  
31**

IR resolution  
32x31 pixels

**NETD  
0.15°C**

Thermal sensitivity  
0.15°C (0.27°F)  
@ 1Hz and 100°C



JPG images/3GP videos



Fold reading on the images



USBinterface &  
Micro SD memory Card

### INCLUDED ACCESSORIES:

Instruction Manual, Battery, Battery Charger,  
USB Cable, Carrying Case, Test Report

