



THT33

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Infrared camera with 80x80pxl and Bluetooth connection

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The **THT33** model is a basic infrared camera with 80x80pxl resolution with Bluetooth connection in order to connect to mobile devices by using the dedicated APP **HTMercury**



**1. IMAGING PERFORMANCE**

Detector type	UFPA
Spectral range	8 ÷ 14µm
Resolution / Pxl size	80x80 pxl / 34µm
Thermal sensitivity	<0.1 °C @ 30°C
Field of View (FOV)	21° x 21° (7.5mm lens)
Minimum focal distance	0.5m
IFOV (@1m)	4.53mrad
D:S ratio:	74:1
Focusing	Automatic
Image frequency	50Hz
Color palettes	5 (Iron, Rainbow, Grey, Grey Inverted, Feather)
Display type	2.8" TFT color 320x240pxl

2. TEMPERATURE MEASUREMENT

Range	Resolution	Accuracy (*)
-20°C ÷ 380.0°C	0.1°C	±2%rdg or ±2°C (higher value)
-4.0°F ÷ 716.0°F	0.1°F	±2%rdg or ±3.6°F (higher value)

(*) Accuracy referred to environmental temperature within 10°C and 35°C and object temperature >0°

3. TEMPERATURE MEASUREMENT SCREENING MODE

Range	Resolution	Accuracy
32.0°C ÷ 42.0°C	0.1°C	±0.5°C
89.6°F ÷ 107.6°F	0.1°F	±0.9°F

4. GENERAL FEATURES

Measurement cursors	3 (MIN, MAX, FIXED)
Measurement modes	Automatic / Manual
Emissivity correction	0.01 ÷ 1.00
Measurement features	Automatic correction based on emissivity
Alarm condition	Visible alarm at display
Temp. Compensation	only for Screening mode
Operating temperature	-10°C ÷ 45°C (14°F ÷ 113°F)
Operating humidity	<80%RH
Storage temperature	-20°C ÷ 60°C C (-4°F ÷ 140°F)
Storage humidity	<80%RH
Encapsulation	IP54 according with IEC529
Drop test	2m (7ft)
Dimensions (L x W x H)	180 x 60 x 75mm (7 x 3 x 3in)
Weight(battery included)	260g (9 ounces)

5. IMAGE STORAGE AND EXTERNAL INTERFACE

Internal memory	Max 20 location
File format	BMP
External interface	Bluetooth BLE 4.0

6. MAINS SUPPLY

Battery type	Rechargeable Li-ION, 3,7V 1300mAh
Charging system	Micro USB interface on camera
Battery life	5 hours (Bluetooth OFF), 4 hours (Bluetooth ON)
External power	External adapter 100/240VAC (50/60Hz) / 5VDC

**This instrument complies with Directive EMC 2014/35/EU
This instrument satisfies the requirements of European Directive 2011/65/EU (RoHS) and 2012/19/EU (WEEE)**