



# 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°C

## 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)
Built-in illuminator	White light LED
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)**