



THT45

Rel. 1.00 - 27/11/14

Entry level camera with 80x80pxl resolution

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The **THT45** model is a basic infrared camera with 80x80pxl resolution extremely easy to use designed for “entry level” thermograph operators.





1. IMAGING PERFORMANCE

Thermal	
Detector type	UFPA
Spectral range	8 \pm 14 μ m
Resolution / Pxl size	80x80 pxl / 34 μ m
Thermal sensitivity	<0.1 °C @ 30°C
Field of View (FOV)	17° x 17° (9mm lens)
Minimum focal distance	0.5m
IFOV (@1m)	3.78mrad
Focusing	Manual on lens
Image frequency	50Hz
Color palettes	4 (Iron, Rainbow, Grey, Grey Inverted)
Visible	
Integrated camera	1.3Mpxl, FOV 59°

2. IMAGING / IR VIDEO DISPLAY

Display type	2.8" LCD, color 320x240pxl
Infra PiP Fusion	IR image inside Visible
IR/Visible Video	Recording and saving on micro SD card MPEG4 format
Video output	HDMI
Electronic zoom	x1 \div x32

3. MEASUREMENT

Temperature range	-20°C \div 350°C
Measurement unit	°C, °F, °K
Accuracy	\pm 2%rdg or \pm 2°C
Measurement cursors	3 (MIN, MAX, FIXED)
Laser pointer	Class 2 according with IEC 60825-1
Built-in illuminator	White light LED
Measurement modes	Automatic / Manual
Emissivity correction	0.01 \div 1.00 + internal table with common materials
Measurement features	Automatic correction based on emissivity and reflexed temperature

4. IMAGE STORAGE AND PC INTERFACE

Memory	Micro SD card 8GB
File format	JPEG standard
Memory size	> 2000 images
PC interface	USB 2.0 (for video and image transfer)

5. POWER SYSTEM

Battery type	Rechargeable Li-ION, 3,7V 2000mAh
Charging system	In camera
Battery life	4 hours of continuous use
External power	External adapter 100/240VAC (50/60Hz)/5VDC



6. GENERAL SPECIFICATIONS

Operating temperature	-20°C ÷ 50°C
Operating humidity	10% ÷ 90%HR
Storage temperature	-40°C ÷ 70°C
Storage humidity	10% ÷ 90%HR
Encapsulation	IP50 according with IEC529
Shock	25G, according with IEC60068-2-29
Vibrations	2G, according with IEC60068-2-6
Drop test	2m
Dimensions (L x W x H)	224 x 77 x 96mm
Weight(battery included)	0.5kg