

TECHNICAL  
DATA  
SHEET



Rel. EN 2-00 - 09/06/22

# THT400

PROFESSIONAL IR  
CAMERA 640x480pxl  
WITH TOUCH-SCREEN

**640x480**  
PIXEL



TEMPERATURE  
RANGE  
-20°\550°



FUSION  
PiP

**THT400** is the new professional thermal imaging camera equipped with a high resolution 640 x 480pxl IR sensor which makes it suitable for use in electrical, mechanical, plumbing, ventilation and refrigeration systems.



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### 1. IMAGING PERFORMANCE

#### THERMAL

Detector type	UFGA
Spectral range	8 ±14µm
Resolution / Pxl size	640 x 480pxl / 17µm
Thermal sensitivity/NETD	<0.05°C @ 30°C / 50mK
Field of View (FOV)	31.9° x 25.7°
Focal lens / F-number	13.5mm / 1.0
Minimum focal distance	0.5m
IFOV	1.26mrad
Focusing	Automatic
Image frequency	25Hz
Color palettes	8 Standard + 4 Isotherms

#### VISIBLE

Integrated camera	2Mpxl, FOV 65°
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### 2. IMAGING/IR VIDEO DISPLAY

Display type	3.5" TFT color, capacitive touch-screen, high brightness
Image mode	IR, Visible, Fusion PiP, Auto Fusion
IR Video	Recording and saving MP4 format
Electronic zoom	x1 ÷ x32 in continuous way

### 3. TEMPERATURE MEASUREMENT

RANGE	RESOLUTION	ACCURACY (*)
-20°C ÷ 550.0°C	0.1°C	±2%rdg or ±2°C (higher value)
-4.0°F ÷ 1022.0°F	0.1°F	±2%rdg or ±3.6°F (higher value)

(\*) Ambient temperature: 10°C ÷ 35°C, Object temperature: >0°C

### 4. 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



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### 5. GENERAL SPECIFICATIONS

Measurement cursors	4 (1 fixed central + 3 freely positionable on image)
Measurement modes	Automatic / Manual / Histogram
Emissivity correction	0.01 ÷ 1.00 + internal table with common materials
Measurement functions	Automatic correction based on distance, relative humidity, ambient temperature, reflexed temperature, offset
Advanced analysis	Spots (max3), Lines (max 2), Areas (max 3), "Hot/Cold" points, Face mode temperature detection (max 10 persons)
Alarm on temperature	Associated to measurements spots
Temp. Compensation	only Screening mode
Operating temperature	-15°C ÷ 50°C
Operating humidity	10%RH ÷ 90%RH
Storage temperature	-40°C ÷ 70°C
Storage humidity	10%RH ÷ 90%RH
Encapsulation	IP54 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)	240 x 100 x 110mm
Weight(battery included)	480g

### 6. IMAGE STORAGE AND EXTERNAL INTERFACE

Memory	Internal memory (3.4GB) + Micro SD card 16GB (max 32GB)
File format	JPEG standard (snapshots), HIR (radiometric)
Memory size	1000 pics/45min video (internal memory), >6000 pics (micro SD)
Textual annotation	With internal virtual keyboard
PC interface	USB-C (download IR images/videos to PC)
WiFi connection	For connection to mobile devices through HTProCamera APP

### 7. POWER SUPPLY

Battery type	Rechargeable Li-ION, 3,7V 2600mAh
Charging system	In camera
Battery life	Approx. 4 hours (stand-by and WiFi off)
External power	External adapter 100/240VAC (50/60Hz)/5VDC, 2400mA

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

