

# TECHNICAL DATA SHEET



Rel. EN 2-00 - 21/01/22

## THT80

POCKET IR CAMERA  
120X90PXL WITH  
TOUCH-SCREEN



**120x90**  
PIXEL



**TEMPERATURE  
RANGE**  
-20°\550°



**FUSION  
PiP**



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#### 1. IMAGING PERFORMANCE

##### THERMAL

Detector type	UFPA
Spectral range	8 $\pm$ 14 $\mu$ m
Resolution / Pxl size	120 x 90pxl / 17 $\mu$ m
Thermal sensitivity/NETD	<0.05°C @ 30°C / 50mK
Field of View (FOV)	50° x 37°
Focal lens / F-number	2.3mm / 1.13
Minimum focal distance	0.5m
IFOV (@1m)	7.3mrad
Focusing	Automatic
Image frequency	50Hz
Color palettes	8 Standard + 4 Isotherms

##### VISIBLE

Integrated camera	2Mpxl, FOV 59°
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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 $\div$ x32 in continuous way

#### 3. TEMPERATURE MEASUREMENT

RANGE	RESOLUTION	ACCURACY (*)
-20°C $\div$ 550.0°C	0.1°C	$\pm$ 2%rdg or $\pm$ 2°C (higher value)
-4.0°F $\div$ 1022.0°F	0.1°F	$\pm$ 2%rdg or $\pm$ 3.6°F (higher value)

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

#### 4. TEMPERATURE MEASUREMENT SCREENING MODE

RANGE	RESOLUTION	ACCURACY
32.0°C $\div$ 42.0°C	0.1°C	$\pm$ 0.5°C
89.6°F $\div$ 107.6°F	0.1°F	$\pm$ 0.9°F

#### 5. GENERAL SPECIFICATIONS

Measurement cursors	4 (1 fixed central + 3 freely positionable on image)
Measurement modes	Automatic / Manual / Histogram
Emissivity correction	0.01 $\div$ 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
Operating temperature	-15°C $\div$ 50°C
Operating humidity	10%RH $\div$ 90%RH
Storage temperature	-40°C $\div$ 70°C
Storage humidity	10%RH $\div$ 90%RH
Encapsulation	IP54 according with IEC529
Shock	25G, according with IEC60068-2-29
Vibrations / Drop test	2G, according with IEC60068-2-6 / 2m
Dimensions (L x W x H)	133 x 87 x 24mm
Weight(battery included)	200g



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### 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 1500mAh
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)

