

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 μ m
Resolution / Pxl size	120 x 90pxl / 17 μ 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)

