



Simply everything. Light capacitive Optical Laser Visual Built-in Touch Screen Interchangeable* Pointer* image camera* Flash LED* Lenses THT70 TATE / 384×288 Г_{-ф-} COLUMN TWO IS NOT 60x120 50 hz i x e l Up to 3 High resolution High resolution P.I.P. fusion overlay Areas with independent even for of thermal graphical independent for very clear moving elements cursors cursors pictures + visual picture* 0,06°C Top thermal sensitivity** Connectivity Memory Temperature Automatic SPAN Micro Range -20 → +400 °C adjustment UNIVERSAL SERIAL BUS 2 rechargeable IR video recording Audio notes Text notes Preset selection batteries recorging of material + charger* properties

* THT70 and THT60 only. $\hfill \hfill \hfi$



Simply ahead.

Industry, electric or costruction. The best, wherever you need it.

The new THT range is based on a highly innovative and reliable technology.

These cameras are headed to different sectors ranging from industrial to safety, building sector etc. Thanks to innovative wide capacitive touch screen and icon display as well as high infrared resolution 384x288 pixel and 160x120pixel, it is easier and more intuitive to detect problems which are not visible to the naked eye.

New THT cameras are provided with Flash LED, laser pointer, camera for visual and PIP pictures, interchangeable optional lenses. Hundreds of photos can be taken as cameras are provided with 2 GB memory so enabling to draw up reports complete with pictures, sound and text notes. Thermal graphical analysis will be simple and fast from now on



Dont be shy. **Touch me.**

A very gifted one.

- > 1. Optional interchangeable lenses*
- > 2. Flash LED*
- > 3. Visual image camera*
- 4. Laser pointer*

New THT cameras can carry out tests under any condition up to 400° C while offering top flexibility with optional interchangeable 11mm, 22mm and 38mm lenses. Flash LED, laser pointer and visual image camera will enable you to find your way under poor light conditions.

* THT70 and THT60 only.



Best display ever.

- > 3,5" Capacitive touchscreen
- > Wide ed extra bright
- > Superior **sharpness** and image quality
- > Oversampling tecnology

New THT cameras are provided with capacitive touch-screen LCD of the latest generation. Thanks to "oversampling" technology pictures will be always clear with a degree of detail, with the best display even in the full light.



Stay connected.

- > USB 2.0 PC connection
- > Microphone input for audio notes
- > Video output
- > MicroSD data saving
- > DC 12V plug for recharge/power supply.

With the new THT cameras you'll be able to effect simultaneously:

- Thermographical inspections while camera is powered by12V DC plug
- Projection of videos in real time through built-in Video Out.
- Saving hundreds of photos on 4GB MicroSd card .





Unstoppable. Unbreakable.

- > Two 4V 2700mAh Li-ION rechargeable batteries**
- > Up to 4 and a half hours of continuous use per pack
- > Built-in charger and external charger
- > Hard carrying case* to carry both camera and accessories

Continuous use is possible. Camera is provided with 2 Li-ION batteries each granting 4.5 hours of continuous use. A 12 volt input can anyway be used both for charging the battery while it is inserted, and for longer duration (for example using a tripod).

*Soft carrying case for THT47 ** 1 battery pack THT47.



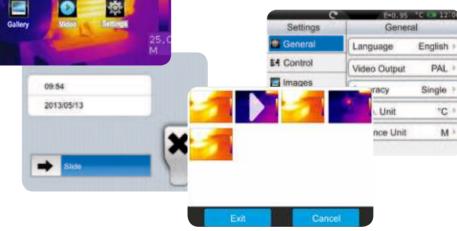


All answers. In one software.



Simply smart.

- Innovative display
- > New icon menu
- > Simple and smart interface
- > Fast access to all commands
- > Easy and **fast updates**



Your choice.

- > Fixed pointer + 2 mobile pointers for MIN and MAX temperature
- > Creation of several areas with pointers and independent emissivity

All necessary temperatures will be monitored thanks to a central cursor as well as independent cursors which will position themselves automatically on minimum and maximum temperatures. The average area temperature is no longer troublesome, it will be enough to create a new area to get minimum, average and maximum temperature.

Any decision will be up to you.



Central, Min and Max, Cursor display.



Area creation.

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Additional Cursors.



Spot 1 Mode

Aanual

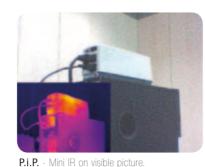
Not just infrared.

- > Picture in Picture tecnology*
- Visible spectrum thermal imaging overlap*
- > Video IR recording*
- > Audio notes
- > Text notes

Finding a way? It is no longer troublesome. Thanks to PiP technology thermal and visual pictures can be overlapped and mixed. Sound and text notes can be added, making each test complete and thorough. You can test easily as you are using a high performance tester.

IR video recording will enable you to monitor guickly and effectively temperature over a some period of time.

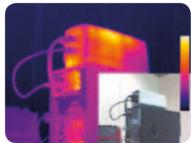
* THT60 and THT70 only



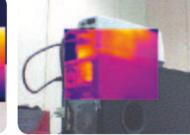




P.i.P. - Mini visible picture FUSION on IR. 1. Add text notes 2. Add audio notes



P.i.P. - Mini visible picture on IR.

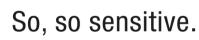


P.i.P. - Mini IR FUSION on visible picture.



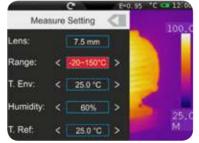
IR Video recording option.





- > Thermal sensitivity **0,06°C***
- > Temperature range -20/+400°C
- > Temperature alarm setting
- > Picture frequency **50Hz**

Thermal sensitivity? It's hot today, temperature is 35.06°C. Never been so accurate! Temperature range from -20°C to 400°C with thermal sensitivity of 0.06°C is very powerful thanks to a 50Hz updating frequency. After setting an alarm temperature threshold THT camera will warn user as soon as such a threshold is overcome.



Setting of temperature range.



Automatic setting of temperature alarms.



Extremely fluid 50 Hz frequency picture.



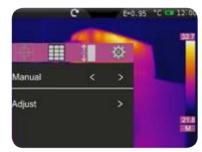
* THT60 and THT47 = 0.08 °C.

It's a matter of SPAN.

- > Automatic and manual SPAN adjustment
- > Creation of customized colour palettes
- > Selection of **temperature range**
- > Setting of Isoteherm

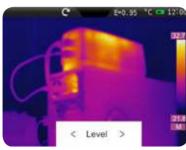
Don't you want to worry about?

SPAN adjustment will enable you to decide which temperature is to be displayed. You will have the opportunity of clearing screen fromunwanted objects so carrying out a quick and clean inspection. Through ISOTHERM function it will be easy to highlight the intended temperatures.

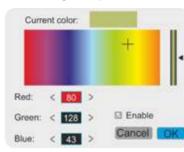


SPAN - AUTO or MANUAL setting.





SPAN - Change of temperature scale.



< Level >

SPAN -Temperature scale limited by user.



ISOTHERM setting.

Setting of customized colour palette.

Customized colour palette.

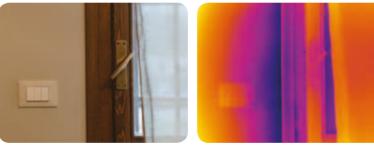
All that glitters ain't gold!

- Selection of material to be inspected to set automatic emissivity.
- > Pre-set table of material

For accurate temperature measurements it will be very easy to set emissivity. Everything is now in place, you just need to select material to be inspected, as for the rest THT will work automatically.

Cancel Select M	laterial	100.
Custom	~	
Water	0.96	
Stainless steel	0.14	
Aluminum plate	0.09	
Asphalt	0.96	25.
Concrete	0.97	M

Pre-set table of material emissivity.



Camera will calibrate emissivity automatically depending on the target material you set.



THTLink. That's it.

- > Thorough analysis
- > Picture Adjustment
- > Creation of **professional reports**

New software THT Link will enable you to make out thorough and professional reports quickly and easily. Adding pointers, creating areas, lines, polygons will be extremely easy and this thanks to new THT Link interface.













Tech specs

→ 1. IMAGING PERFORMANCE

Thermal

Detector type	UFPA	UFPA	UFPA
Spectral range	8 ÷14µm	8 ÷14µm	8 ÷14µm
Resolution / Pxl size	384 x 288 pxl / 25µm	160 x 120 pxl / 25µm	160 x 120 pxl / 25µm
Thermal sensitivity	<0.06 °C @ 30°C	<0.08 °C @ 30°C	<0.08 °C @ 30°C
Field of view (FOV)	24.6° x 18.6° (22mm lens)	29,8° x 22,6° (7.5 mm lens)	29.8° x 22.6° (7.5 mm lens)
Minimum focal distance	0.3m	0.2m	0.2m
IFOV (@1m)	1.14mrad	3.33mrad	3.33mrad
Focusing	Manual on lens	Manual on lens	Manual on lens
Image frequency	50Hz	50Hz	50Hz
Color palettes	8 (Standard) + 10 (Customized)	8 (Standard) + 10 (Customized)	8 (Standard) + 10 (Customized)
Visible			
Integrated camera	CMOS sensor 640x480 pxl, FOV 62.3°	CMOS sensor 640x480 pxl, FOV 62.3°	

> 2. IMAGING / IR VIDEO DISPLAY

Display type	3.5" TFT color, capacitive touch-screen, high brightness	3.5" TFT color, capacitive touch-screen, high brightness	3.5" TFT color, capacitive touch-screen, high brightness
Infra PiP Fusion	IR image inside visible & visible image inside IR	IR image inside visible & visible image inside IR	
IR Video	Recording and saving on Micro SD card MPEG4 file format	Recording and saving on Micro SD card MPEG4 file format	Recording and saving on Micro SD card MPEG4 file format
Video output	PAL / NTSC	PAL / NTSC	PAL / NTSC
Electronic zoom	x1 ÷ x20 in continuous way	$x1 \div x20$ in continuous way	x1 ÷ x20 in continuous way
Image rotation	0° ÷ 360° in step of 1°	$0^{\circ} \div 360^{\circ}$ in step of 1°	$0^{\circ} \div 360^{\circ}$ in step of 1°

→ 3. MEASUREMENT

Temperature range	-20°C ÷ 400°C	-20°C ÷ 400°C	-20°C ÷ 400°C
Measurement unit	°C, °F, °K	°C, °F, °K	°C, °F, °K
Accuracy	± 2 % reading or ± 2 °C	$\pm 2\%$ reading or $\pm 2^{\circ}C$	±2% reading or ±2°C
Measurement cursors	3 (selection temperature MIN, MAX, Customized position on image)	3 (selection temperature MIN, MAX, Customized position on image)	3 (selection temperature MIN, MAX, Customized position on image)
Laser pointer	Class 2 according to IEC 60825-1	Class 2 according to IEC 60825-1	
Built-in illuminator	White light LED	White light LED	
Measurement modes	Automatic / Manual / Histogram	Automatico / Manuale / Istogramma	Automatico / Manuale / Istogramma
Emissivity correction	0.01 ÷ 1.00 + built-in table with common materials	0.01 ÷ 1.00 + built-in table with common materials	0.01 ÷ 1.00 + built-in table with common materials
Measurements features	Automatic correction based on distance, relative humidity, atmospheric temperature, offset	Automatic correction based on distance, relative humidity, atmospheric temperature, offset	Automatic correction based on distance, relative humidity, atmospheric temperature, offset
Advanced analysis	Spots (max 3), Lines (max 2), Areas (max 3), Isotherm	Spots (max 3), Lines (max 2), Areas (max 3), Isotherm	Spots (max 3), Lines (max 2), Areas (max 3), Isotherm
Alarm on temperature	Associated to measurements spots	Associated to measurements spots	Associated to measurements spots

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MORE

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→ 4. IMAGE STORAGE AND PC INTERFACE

Memory	Micro SD card 4GB	Micro SD card 4GB	Micro SD card 4GB
File format	JPEG standard	JPEG standard	JPEG standard
Memory size	> 1000 images	> 1000 images	> 1000 images
Voice notes	60" / image	60" / image	60" / image
Text notes	With internal virtual keyboard	With internal virtual keyboard	With internal virtual keyboard
PC interface	USB 2.0 (for video and image transfer)	USB 2.0 (for video and image transfer)	USB 2.0 (for video and image transfer)

> 5. POWER SYSTEM

Battery type	Rechargeable Li-ION - 7,4V 2700mAh	Rechargeable Li-ION - 7,4V 2700mAh	Rechargeable Li-ION - 7,4V 2700mAh
Charging system	In camera or in base charger	In camera or in base charger	In camera or in base charger
Battery life	4.5 hours of continuous use	4.5 hours of continuous use	4.5 hours of continuous use
External power	External adapter 100/240VAC (50/60Hz)/12VDC	External adapter 100/240VAC (50/60Hz)/12VDC	External adapter 100/240VAC (50/60Hz)/12VDC

→ 6. GENERAL SPECIFICATIONS

Operating temperatures	-20°C ÷ 50°C	-20°C ÷ 50°C	$-20^{\circ}C \div 50^{\circ}C$
Operating humidity	10% ÷ 90%HR	10% ÷ 90%HR	10% ÷ 90%HR
Storage temperature	-40°C ÷ 70°C	-40°C ÷ 70°C	-40°C ÷ 70°C
Storage humidity	10% ÷ 90%HR	10% ÷ 90%HR	10% ÷ 90%HR
Encapsulation	IP65 according to IEC529	IP65 according to IEC529	IP65 according to IEC529
Shock	25G, according to IEC60068-2-29	25G, according to IEC60068-2-29	25G, according to IEC60068-2-29
Vibrations	2G, according to IEC60068-2-6	2G, according to IEC60068-2-6	2G, according to IEC60068-2-6
Drop test	2m	2m	2m
Dimensions (L x W x H)	243 x 103 x 160mm	243 x 103 x 160mm	243 x 103 x 160mm
Weight (battery included)	0.92kg	0.92kg	0.92kg

> 7. ACCESSORIES

Standard lens	22 mm f/1.0	7,5 mm f/1.0	7,5 mm f/1.0
Optional lenses	11 / 38 mm	11 / 22 / 33 mm	
Micro SD Card	•	•	•
Rechargeable Li-ION battery	2x	2x	1x
USB cable	•	•	•
Video cable	•	•	•
AC/DC power/recharge unit	•	•	•
Headset + Microphone	•	•	•
Usage manual	•	•	•
Hard carrying case	•	•	Soft carrying case
Battery charger	•	•	•
Tripod adapter	•	•	Optional
Hood	•	•	ортіолаї у ЧНОЕ Ортіолаї У ЧНОЕ Сруппа компаний





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