Industrial, electrical or construction. Excellent in any sector.

The new THT range makes use of a highly innovative technology to deliver performance at affordable prices. The use of IR technology today applies to many sectors, from industry to construction, from systems to installation. Thanks to the innovative icon display, the wide capacitive touch screen display and the very high infrared resolution with 384x288 pixels and 160x120 pixels (80x80 pixels for THT45), identifying those problems which are not visible to the naked eye becomes simpler and more intuitive.

The new THT thermal cameras are provided with Flash Led*, Laser pointer*, photo-camera for visual images and PiP* and optional interchangeable optics**. With the provided 4GB memory card, with which you will be able to take hundreds of pictures, it will be possible to prepare reports complete with images, audio and text comments. With the new THT thermal cameras, thermographic analysis will be simple and quick.

* THT70, THT60 and THT45. ** Only THT60 and THT70. *** The THTview App is available for free download in the Apple Store™ and Google Play™ systems.
### CHARACTERISTICS OF IR OPTICS AND BUILT-IN PHOTO CAMERA

<table>
<thead>
<tr>
<th>Feature</th>
<th>THT70</th>
<th>THT60</th>
<th>THT46</th>
<th>THT45W</th>
<th>MERCURY</th>
<th>THT32</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field of view (FOV)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24.6° x 18.6° (provided optics)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>23.8° x 22.6° (provided optics)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25° x 19°</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17° x 17°</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21° x 21°</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>38° x 38°</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Focus width of standard lens</td>
<td>22mm</td>
<td>7mm</td>
<td>9mm</td>
<td>9mm</td>
<td>7.5mm</td>
<td></td>
</tr>
<tr>
<td>Resolution and FOV of visual camera</td>
<td>640 x 480pixl, FOV 62.3°</td>
<td>640 x 480pixl, FOV 62.3°</td>
<td>1.3Mpixl, FOV 59°</td>
<td>1.3Mpixl, FOV 59°</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Interchangeable optics</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
| FUNCTIONS
| Fusion PP function for combination of thermal and visual images | - | - | - | - | - | (Blending) |
| 3 cursors: Central, Min, Max          | •      | •      | •      | •      | •       | -      |
| Advanced analysis: Spots, Lines, Areas on images and bottom line function | - | - | - | - | - | - |
| Detection according to distance, reflected temperature and relative humidity | - | - | •      | Only reflected temperature | Only reflected temperature | Only reflected temperature |
| Colour palettes                       | 8 standard | 8 standard | 4 standard | 4 standard | 5 standard | 5 standard |
| Integrated table with emissivity values of common materials | - | - | - | - | - | - |
| Alarm thresholds on temperature measurement | - | - | - | - | - | - |
| Readings in °C, °F, °K                | -      | -      | -      | -      | -       | -      |
| Class 2 laser pointer                 | •      | •      | •      | •      | •       | •      |
| Integrated white light illuminator    | •      | •      | •      | •      | •       | •      |
| Digital zoom                          | 1x x 20x | 1x x 20x | 1x x 32x | 1x x 32x | -       | -      |
| Manual and automatic open             | •      | •      | •      | •      | Auto only | Auto only |
| Vertical and horizontal lines         | 50Hz   | 50Hz   | 50Hz   | 50Hz   | 50Hz    | 9Hz    |

### DATA SAVING

<table>
<thead>
<tr>
<th>Feature</th>
<th>THT70</th>
<th>THT60</th>
<th>THT46</th>
<th>THT45W</th>
<th>MERCURY</th>
<th>THT32</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard format of saved images: JPEG</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Saving of IR videos and audio comments in MPEG4 format</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Voice and text annotation</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>
| ADDITIONAL CHARACTERISTICS
| Capacitive touch-screen colour display | •      | -      | -      | -      | -       | -      |
| Power supply with rechargeable battery | •      | •      | •      | •      | •       | •      |
| USB interface to PC and THTLink software | •      | •      | -      | -      | -       | -      |
| PAL/NTSC video output                 | •      | •      | HDMI   | HDMI   | -       | -      |
| WiFi function for connection to mobile devices | •      | -      | -      | -      | -       | -      |
| Bluetooth function for connection to mobile devices | •      | -      | -      | -      | -       | -      |
| POWER SUPPLY
| Battery type                           | rechargable Li-ION 7.4V 2700mAh | rechargable Li-ION 7.4V 2700mAh | rechargable Li-ION 3.7V 2000mAh | rechargable Li-ION 3.7V 2000mAh | rechargable Li-ION 3.7V 2300mAh | rechargable Li-ION 3.7V 1300mAh |
| Recharging system                      | On thermal camera or external recharging base | On thermal camera or external recharging base | On thermal camera | On external recharging base | On thermal camera | On thermal camera |
| Duration                               | 4.5 hours | 4.5 hours | 4 hours | 4 hours | 2 hours | 2 hours |
| External power supply                  | External power supply 100/240VAC/50/60Hz/1000WAC/230VAC/1000WAC | External power supply 100/240VAC/50/60Hz/1000WAC/230VAC/1000WAC | External power supply 100/240VAC/50/60Hz/1000WAC/230VAC/1000WAC | External power supply 100/240VAC/50/60Hz/1000WAC/230VAC/1000WAC | External power supply 100/240VAC/50/60Hz/1000WAC/230VAC/1000WAC | External power supply 100/240VAC/50/60Hz/1000WAC/230VAC/1000WAC |
| GENERAL CHARACTERISTICS
| Operating temperature                  | -20°C x 50°C | -20°C x 50°C | -15°C x 50°C | -15°C x 50°C | -15°C x 50°C | -15°C x 50°C |
| Operating humidity                     | 10% - 90%RH | 10% - 90%RH | 10% - 90%RH | 10% - 90%RH | 10% - 90%RH | 10% - 90%RH |
| Storage temperature                    | -40°C x 70°C | -40°C x 70°C | -40°C x 70°C | -40°C x 70°C | -40°C x 70°C | -40°C x 70°C |
| Storage humidity                       | 10% - 90%RH | 10% - 90%RH | 10% - 90%RH | 10% - 90%RH | 10% - 90%RH | 10% - 90%RH |
| ingress protection                     | IP54 in compliance with IEC529 | IP54 in compliance with IEC529 | IP54 in compliance with IEC529 | IP54 in compliance with IEC529 | IP54 in compliance with IEC529 | IP54 in compliance with IEC529 |

### ORDER CODE

<table>
<thead>
<tr>
<th>Model</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>THT70</td>
<td>HH000070</td>
</tr>
<tr>
<td>THT60</td>
<td>HH000060</td>
</tr>
<tr>
<td>THT46</td>
<td>HH000046</td>
</tr>
<tr>
<td>THT45W</td>
<td>HH000045</td>
</tr>
<tr>
<td>MERCURY</td>
<td>HH000MER</td>
</tr>
<tr>
<td>THT33</td>
<td>HH000033</td>
</tr>
<tr>
<td>THT32</td>
<td>HH000032</td>
</tr>
</tbody>
</table>
### Functions and characteristics

**THT70 THT60**

**Characteristics of IR image**
- IR sensor resolution: 80x60pxl
- Temperature range: -5°C to +50°C
- Thermal sensitivity: <0.09°C @ 30°C
- NETD: <75mK
- IF0V (1m) 3.5mrad
- Spectrum range 8-14µm
- Field of View (FOV) 24.6° x 18.6°
- IFOV (@1m) 1.14mrad 3.33mrad
- Image resolution 640x480pxl
- Field of view 25° x 19° 17° x 17°
- Sensor type IR UFPA

**Additional characteristics**
- Manual IR optical system focus
- Standard lens focal length 9 mm
- Field of view 25° x 19° 17° x 17°
- Sensor type IR UFPA
- Frequency 50Hz

**Functions**
- Rechargeable battery
- Powering with rechargeable battery
- Charging with mains power

**Included accessories**
- IR sensor with resolution 384x288pxl (THT70) and 160x120pxl (THT60)
- Display with high brightness and a drop-down menu
- Integrated table with emissivity of materials
- User manual on CD-ROM + quick guide

**Optional accessories**
- Headset with microphone
- User manual on CD-ROM + quick guide
- User manual on CD-ROM + quick guide
- User manual on CD-ROM + quick guide
- User manual on CD-ROM + quick guide

**Data saving**
- Standard format of saved images JPEG
- Saving of IR images with the standard JPEG format
- Video and text annotation
- Power supply with rechargeable battery
- USB interface to PC
- PAL/NTSC video output

**Additional features**
- Saving of IR images in MPEG4 format
- Power supply with rechargeable battery
- USB interface to PC
- PAL/NTSC video output
- Data saving
- Additional features
- Powering with rechargeable battery
- USB port for PC connection
- Type of sensor IR UFPA
- Frequency 50Hz

**Functions and characteristics**

**THT46 THT45W**

**Advanced infrared thermal camera with touch screen**

**Characteristics of IR image**
- IR sensor resolution: 80x60pxl
- Temperature range: -5°C to +10°C
- Thermal sensitivity: <0.09°C @ 30°C
- NETD: <75mK
- IF0V (1m) 3.5mrad
- Spectrum range 8-14µm
- Field of View (FOV) 24.6° x 18.6°
- IFOV (@1m) 1.14mrad 3.33mrad
- Image resolution 640x480pxl
- Field of view 25° x 19° 17° x 17°
- Sensor type IR UFPA

**Additional characteristics**
- Manual IR optical system focus
- Standard lens focal length 9 mm
- Frequency 50Hz

**Functions**
- Rechargeable battery
- Powering with rechargeable battery
- Charging with mains power

**Included accessories**
- IR sensor with resolution 384x288pxl (THT70) and 160x120pxl (THT60)
- Display with high brightness and a drop-down menu
- Integrated table with emissivity of materials
- User manual on CD-ROM + quick guide

**Optional accessories**
- Headset with microphone
- User manual on CD-ROM + quick guide
- User manual on CD-ROM + quick guide
- User manual on CD-ROM + quick guide
- User manual on CD-ROM + quick guide

**Data saving**
- Standard format of saved images JPEG
- Saving of IR images with the standard JPEG format
- Video and text annotation
- Power supply with rechargeable battery
- USB interface to PC
- PAL/NTSC video output

**Additional features**
- Saving of IR images in MPEG4 format
- Power supply with rechargeable battery
- USB interface to PC
- PAL/NTSC video output
- Data saving
- Additional features
- Powering with rechargeable battery
- USB port for PC connection
- Type of sensor IR UFPA
- Frequency 50Hz

**Functions and characteristics**

**THT45W**

**Compact infrared thermal cameras with function PiP**

**Characteristics of IR image**
- IR sensor resolution: 80x60pxl
- Temperature range: -5°C to +10°C
- Thermal sensitivity: <0.09°C @ 30°C
- NETD: <75mK
- IF0V (1m) 3.5mrad
- Spectrum range 8-14µm
- Field of View (FOV) 24.6° x 18.6°
- IFOV (@1m) 1.14mrad 3.33mrad
- Image resolution 640x480pxl
- Field of view 25° x 19° 17° x 17°
- Sensor type IR UFPA

**Additional characteristics**
- Manual IR optical system focus
- Standard lens focal length 9 mm
- Frequency 50Hz

**Functions**
- Rechargeable battery
- Powering with rechargeable battery
- Charging with mains power

**Included accessories**
- IR sensor with resolution 384x288pxl (THT70) and 160x120pxl (THT60)
- Display with high brightness and a drop-down menu
- Integrated table with emissivity of materials
- User manual on CD-ROM + quick guide

**Optional accessories**
- Headset with microphone
- User manual on CD-ROM + quick guide
- User manual on CD-ROM + quick guide
- User manual on CD-ROM + quick guide
- User manual on CD-ROM + quick guide

**Data saving**
- Standard format of saved images JPEG
- Saving of IR images with the standard JPEG format
- Video and text annotation
- Power supply with rechargeable battery
- USB interface to PC
- PAL/NTSC video output

**Additional features**
- Saving of IR images in MPEG4 format
- Power supply with rechargeable battery
- USB interface to PC
- PAL/NTSC video output
- Data saving
- Additional features
- Powering with rechargeable battery
- USB port for PC connection
- Type of sensor IR UFPA
- Frequency 50Hz
THT32
COMPACT INFRARED CAMERA WITH 32X31PXL IR RESOLUTION AND PIP FUNCTION

THT32 is the entry level thermal imaging camera for anyone who wants to enter the world of thermographic inspection for the first time. The device is extremely simple and features an intuitive menu that allows you to set up measurement solutions till now available only on expensive equipment. For example, you can read all maximum or minimum temperature values by choosing to display on display either a visual image or an infrared image. The images can be saved and opened later.

An interesting feature of THT32 is the ability to gradually mix the visual image with the infrared image (PiP). That’s why it represents a handy solution for everyone. Last but not least, THT32 is equipped with a rechargeable battery, via Mini USB, to charge the battery in any condition (Network, PC, Car).

Functions and features

IR image features
- IR sensor resolution: 32x31pxl
- Temperature range: -20°C ÷ 300°C
- Thermal sensitivity: <0.15°C @ 25°C
- NETD: <150mK
- Spectral range: 6.5 ÷ 14µm
- IFOV (@1m):
- IR sensor type: UPC
- Frequency: 9Hz

IR and integrated optical system features
- Field of view (FOV): 38°x 38°
- Standard lens focal length:
- Focus: automatic

Functions
- Fusion (Blending) function with adjustable distance
- 3 cursors: Central, Max, Min
- Object emissivity adjustable from 0.10 to 1.00
- Reflected temperature correction
- Readout in °C, °F
- Automatic read lock (HOLD)

Data saving
- BMP format of saved images
- Save to micro SD card (max 6000 images)
- Download of images to mobile devices via Bluetooth and APP HTMercury

Additional features
- Power supply with rechargeable Li-ION battery
- USB port

Included accessories

BAT32
Rechargeable Li-ION battery
- Battery charger power supply
- USB cable
- Tripod
- Transport bag
- Micro SD card 4GB + reader
- User manual

Funzioni e caratteristiche

Caratteristiche di IR e di ottica integrale
- Campo visuale (FOV): 21°x 21°
- Fine focale automatica

Funzioni
- 3 cursors: Central, Max, Min
- Emissività regolabile da 0.10 a 1.00
- Colori paletti
- Leggibilità in °C, °F
- Funzione HOLD

Salvataggio dei dati
- FORMATO BMP delle immagini salvate
- Salvataggio nel memoria interna (max 20 immagini)
- Scaricamento delle immagini su dispositivi mobili tramite Bluetooth e APP HTMercury

Caratteristiche aggiuntive
- Fornitura di una batteria ricaricabile Li-ION
- Fornitura di un caricabatterie
- Fornitura di un cavo USB
- Fornitura di una custodia
- Fornitura di una certificazione ISO 9000

Included accessories

Built-in rechargeable Li-ION battery
- Battery charger power supply
- USB cable for battery recharge
- Carrying bag
- Non-slip strap
- User Manual
- ISO9000 calibration certificate