TEMPMED is a body temperature measurement system, without contact, based on high-precision infrared thermography.

It allows a quick and accurate measurement of body temperature, and alerts about those that exceed an established maximum body temperature, thus detecting possible cases of fever and avoiding putting at risk the health of third parties.

TEMPMED complies with the IEC 80601-2-59: 2019 standard providing highly reliable measurements. This standard establishes the particular requirements for safety and essential operation of thermographic systems used for the detection of feverish human temperature.

Advantages of the NIT system

- The TEMPMED system is robust, reliable, and easy to install.
- Development of proprietary software.
- Systems with cameras 640x480px or 384x288px.
- Ensures its accuracy by not allowing measuring more than one person simultaneously.
- Blackbody system to ensure the measurement’s accuracy.
- Quick identification of the tear of the eye.
- In accordance with the standard, it does not allow measuring people with glasses or mask.

The system incorporates a double verification that increases the robustness of the measurement.

TEMPMED maintains the privacy of the users in accordance with the GDPR.

Terms of use

- Measurement time: less than 3 seconds.
- Distance indicators for correct identification.
- Automatic recognition of the tear of the eye (only correct area to measure the temperature).

The positioning of the face is guided by a visible camera that helps avoid placement errors, while the head must remain immobile. The system does not provide a reading if the person is wearing glasses and/or a mask.

TEMPMED is a unique system among the rest of the existing technologies in the market, thanks to the combination of all its characteristics and the strict monitoring of IEC 80601-2-59: 2019.

TEMPMED is a system fully developed by the only company producing infrared detectors in Spain.
Installation, software and use of the system

Easy installation system
PLUG & PLAY

Quick measurement process,
less than 3 seconds

Optional modules to
communicate with other systems

Friendly software, intuitive
and easy to use.

Option to take one picture
at the moment.

Possibility of multicamera
installation.

System components

- Calibrated thermal imaging camera
  with high precision for measurement
  of facial temperature.
  Resolution: 640x480 px
  High sensitivity: 60 mK

- Integrated video camera
  (RGB Full HD)

- Reference blackbody
  Radiometric precision: ± 0,25 °C
  Stability: less than 0.1 °C
  Includes traceable calibration certificate

- Dual display screen (position &
  reference, control & measure)

- Portable system (tripods)

- High precision system <±0.5°C

- Stickers with indications for use
  and proper positioning

- Analysis software and system
  configuration with the following
  functions:
  Image fusion algorithm that allows
  viewing both images (thermal and visible)
  on screens
  Generation of alarms with notification on
  screen
  Real-time hot spot analysis
  Option for simultaneous recording of video
  and thermal images
  Easy integration with other systems

Why choose NIT?

NIT, a world leading company in infrared
sensing, has a deep understanding of the scope
of infrared sensors and their applications.

High volume manufacturing capacity in
collaboration with our partner
Revenga Smart Solutions (> 200 employees).

NIT has received national and international
awards for its products.

It is the only company in Spain that
manufactures infrared detectors and markets its
products in the 5 continents.

NIT offers its clients custom developments to
taylor the the needs of each client.

More than 15 years of experience in the market.