Xenics
Infrared Solutions

Imagine the invisible

Raven-384

Preventing the spread of infectious diseases

Xenics infrared thermography cameras help to prevent the spreading of infectious diseases.

Infectious diseases, causing fever, can easily spread due to international travelling. Early detection of elevated body temperature, fever, is crucial to avoid this spreading. An effective disease-prevention strategy with infrared thermography needs to be in place:

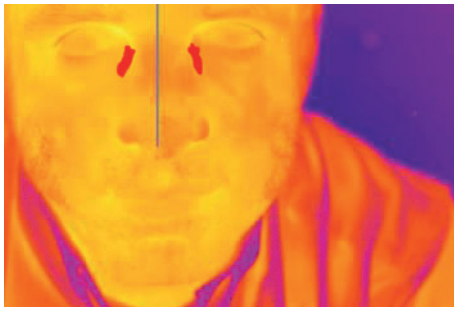
Infrared cameras detect the heat emitted from the skin which produces a temperature map of a person in real time. Totally harmless and non intrusive, just the way a normal camera records a video clip.
The result is a coloured image where the colours represent temperature. Temperatures higher than a certain threshold can be highlighted.

Reliable measurement from Xenics

To detect a disease in an early stage, the Xenics' Raven-384 infrared camera offers a solution that is simple, reliable and stable at places of incoming travellers such as airports, bus and railway stations, metros. The pedestrian flow will not be influenced thanks to the high frame rate. Temperature differences as small as 0.050°C can be distinguished.
In addition Xenics' eliminates the stability problem all microbolometer cameras cope with using the reference method. You just need to put a precisely controlled temperature reference in the field of view to provide reliable screening.
The high definition image quality permits accurate fever detection of both individuals and crowds.

Minimal set up and examination time

You can easily mount the Raven-384 on a tripod and control the infrared camera from a PC over the standard Ethernet interface for temporary screening. At places with long queues such as passport or customs control points, where you can screen people on an individual basis, you can also have a fixed installation.
We recommend that you check the body temperature at the corner of the individuals' eye, where the temperature approaches the core temperature. The examination takes no longer than a fraction of a second.



Automatic detection of hot parts above adjustable threshold.

Raven-384

Screening people on an individual basis at places with long queues such as passport or customs control points. The examination takes no longer than a fraction of a second.

Easy installation for detecting individuals and crowds.

System Specification Raven-384

Array type	uncooled microbolometer
# Pixels	384 x 288
Spectral band	8-14 µm
Sensitivity (NETD)	< 0.05°C
Frame rate	50/60 Hz (9Hz as an option when export licence is required)
Power	110/220 V AC converted to 9-12 V DC
Camera control	Ethernet (TCP/IP)
Operating temperature range	-20°C to +50°C
Analog out	PAL or NTSC
Lenses	18 mm, 25 mm, 50 mm, 75 mm

Features Raven-384

- **Easy installation**
  You can connect the Raven-384 directly to a laptop with a standard Ethernet cable.
- **Minimum operator training**
  You only need less than an hour of training to be operational.
- **Crowd screening**
  You can detect infected individuals in crowds from a distance with high definition images.
- **Automatic alerts**
  Adjustable threshold set at 1°C above average temperature, with visual and audible alarms.
- **Fast and discrete**
  You have no influence on the pedestrian flow with 50 Hz framerate.
- **Accurate and stable temperature measurement**
  Precise controlled black body reference for improved accuracy and stability.

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