WORKSHELL MEDICAS

THERMAL CAMERA FOR FACE TEMPERATURE SCANNING

IEC and ISO compliant

The camera is compliant with ISO/TR 13154:2017, meets the requirements of IEC and follows the WHO and FDA guidelines for elevated body temperature screening.

GDPR compliant

Human temperature is analyzed real-time without the need of data storing. Administrator has a possibility to set up video or image recording if needed.
### MEDICAS Key features description

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
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<tbody>
<tr>
<td>Dual camera face monitoring</td>
<td>Visual and Thermal camera face scanning in <strong>real-time with calibration</strong></td>
</tr>
<tr>
<td>No PC needed for connection</td>
<td>MEDICAS Software for full real-time temperature scanning and control</td>
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<tr>
<td>Software onboard in MEDICAS</td>
<td>- operating system ensures the full access to all camera functions</td>
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<td></td>
<td>- easy camera control via Bluetooth USB keyboard or Ethernet</td>
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<tr>
<td>Accurate measurement</td>
<td><strong>Black body radiation</strong> source included in the package for accurate and</td>
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<tr>
<td></td>
<td>stable measurement in all time, real-time recalibration every 2s</td>
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<tr>
<td>Thermal camera and Black Body specification</td>
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<tr>
<td>IR camera resolution</td>
<td>640 x 512 pixels</td>
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<tr>
<td>Temperature range</td>
<td>0 °C to +50 °C (31 °F to 122 °F) calibrated for human face scanning</td>
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<tr>
<td>Temperature sensitivity</td>
<td>Standard resolution 0.03 °C (30mK) for thermal differences</td>
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<tr>
<td>Accuracy</td>
<td>± 0.3 °C (±0.54 °F) - according to blackbody at 80cm (2.6 ft), 4m (13.1 ft) or</td>
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<td></td>
<td>8m (26.2 ft) focus distance and Black body calibration ROI region</td>
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<tr>
<td>Frame rates</td>
<td>Exportable version worldwide (commercial) or dual use (commercial)</td>
</tr>
<tr>
<td>Spectral range / detector</td>
<td>7.5 – 13.5 μm / Uncooled VOx microbolometer</td>
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<tr>
<td>Black body calibration source</td>
<td>Standard Black body accuracy better than ± 0.09°C</td>
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<td></td>
<td>High emissivity 100mm diameter surface with precision digital PID</td>
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<td></td>
<td>Continuous camera recalibration every 2s via black body</td>
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<td></td>
<td>Special pyramid surface for decreasing the reflection</td>
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<tr>
<td>Lens (field of view)</td>
<td>45° x 37° (spatial resolution 1.308 mrad), f/1.25</td>
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<tr>
<td>Number of people per minute</td>
<td>Unlimited – all people are measured in the field of view in real-time or in</td>
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<td></td>
<td>separate Multi-ROI for face evaluation, DIO interface available for alarms</td>
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<tr>
<td>Digital visual camera</td>
<td></td>
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<tr>
<td>Resolution</td>
<td>1 920 x 1 080 pixels, 1/3” sensor for FULL HD images</td>
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<tr>
<td>Noise reduction</td>
<td>Special 3D noise reduction function</td>
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<tr>
<td>Focus</td>
<td>Autofocus</td>
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<tr>
<td>Memory and data recording</td>
<td></td>
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<tr>
<td>Memory</td>
<td>Internal high-speed SSD 256GB for image and video recording</td>
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<tr>
<td></td>
<td>External slot for Micro SD card for taking images</td>
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<tr>
<td>Image and video formats (as the option in ADMIN mode)</td>
<td>Radiometric JPEG images and Digital camera Full HD JPEG images</td>
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<td>Digital camera h.264 encode video HD recording</td>
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<tr>
<td></td>
<td>Encoded h.264 IR recording</td>
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<tr>
<td>Interfaces &amp; real-time remote control</td>
<td></td>
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<tr>
<td>Ethernet (RJ-45) port</td>
<td>Video streaming and camera control via MEDICAS SDK</td>
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<td>TCP/IP server, RTSP server and FTP server available on the camera</td>
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<tr>
<td>DIO interface cable</td>
<td>DIO interface accessories (4x digital outputs, 4x digital inputs, CANH, CANL,</td>
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<tr>
<td></td>
<td>Max inductive load 2A, Max resistive load 5A, power supply +24V</td>
</tr>
<tr>
<td>Micro USB 2.0 port</td>
<td>Mass storage access</td>
</tr>
<tr>
<td>USB 2.0 port</td>
<td>Direct keyboard connection for MEDICAS camera control</td>
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</tbody>
</table>

**All pictures are only for illustration. Real values may vary, version 1.8**
### Micro HDMI video output
1 280 x 720 pixels (720p), Aspect ratio 16:9, Micro HDMI video output

### Remote control system
MEDICAS OS ensures real-time control of all camera functions

### Camera functions
- **Real-time temperature correction via black body radiation source**
- **Measurement functions:** Automatic hot spot detection
- **Temperature range settings:** Manual to set the best visualization option
- **Two-level advanced alarm for illness detection with 2 different colors**
- **Camera modes:** Dual IR and Visible mode with real-time two-level alarms
- **Color palettes:** 6 different color palettes
- **Temperature units:** Celsius and Fahrenheit

### Software & SDK
- **Camera software**
  On board camera firmware for online temperature alarms and analysis
- **Ethernet SDK**
  Ethernet SDK for camera integration via TCP/IP or RTSP

### Power supply, weight & dimensions
- **Input supply voltage**
  230VAC / 110VAC
- **Power dissipation (avg.)**
  24W (with 24VDC power supply adapter, 1 Amps)
- **Camera weight**
  < 500 grams camera
- **Dimensions (L x W x H)**
  83 mm x 85 mm x 68 mm
- **Mounting holes**
  2 x 1/4-20 UNC thread (1x bottom side, 1x top side)
- **Housing material**
  Durable aluminium body for long-time measurement stability

### Environmental conditions
- **Ambient temperature range**
  15 °C to +30 °C (59 °F – 86 °F) - no dusty, windy and foggy environment
- **Relative humidity**
  < 90% non-condensing
- **Storage temperature range**
  -30 °C to +60 °C (59 °F – 140 °F)

### In the package
- Camera head with lens, focus tool, Lens protection cap, Stationary Black body, Black body Calibration certificate, Black body ball adapter, Micro SD card, 5 m Micro HDMI cable, 2 x Power supply adapter, 1x Software license for analysis, Wireless Keyboard, USB micro OTG Cable, Quick start guide, Hard transport case

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**Variable distance**
80 cm - 12 m
2.6 ft - 39 ft

**Dual camera**
Thermal
Full HD

**Automatic detection**
Real-time
Without delay

**Operability**
Unmanned
24/7

**High resolution**
640 x 512 px
327 680 points

**Precision**
± 0.3 °C
± 0.54 °F
Contact information
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