



- THERMAL SCAN
- 640PX THERMAL RESOLUTION
- 0.3 °C ACCURACY
- REAL-TIME CALIBRATION
- 0.03°C SENSITIVITY
- FULL HD CAMERA
- MADE IN EU  
EU  
QUALITY GUARANTEED
- TUV SUD  
ISO 1801

# WORKSWELL 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 **realtime** without the need of data storing. Administrator has a possibility to **set up video or image recording** if needed.

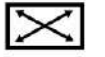


# MEDICAS technical specification

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



|  |  |
|--|--|
| <b>Micro HDMI video output</b>               | 1 280 x 720 pixels (720p), Aspect ratio 16:9, Micro HDMI video output  |
| <b>Remote control system</b>                 | MEDICAS OS ensures real-time control of all camera functions   |
| <b>Camera functions</b>                      | <b>Real-time temperature correction via black body radiation source</b><br><b>Measurement functions:</b> Automatic hot spot detection<br><b>Temperature range settings:</b> Manual to set the best visualization option<br><b>Two-level advanced alarm for illness detection with 2 different colors</b><br><b>Camera modes:</b> Dual IR and Visible mode with real-time two-level alarms<br><b>Color palettes:</b> 6 different color palettes<br><b>Temperature units:</b> Celsius and Fahrenheit |
| <b>Software &amp; SDK</b>                    |  |
| <b>Camera software</b>                       | On board camera firmware for online temperature alarms and analysis  |
| <b>Ethernet SDK</b>                          | Ethernet SDK for camera integration via TCP/IP or RTSP   |
| <b>Power supply, weight &amp; dimensions</b> |  |
| <b>Input supply voltage</b>                  | 230VAC / 110VAC  |
| <b>Power dissipation (avg.)</b>              | 24W (with 24VDC power supply adapter, 1 Amps)  |
| <b>Camera weight</b>                         | < 500 grams camera   |
| <b>Dimensions (L x W x H)</b>                | 83 mm x 85 mm x 68 mm  |
| <b>Mounting holes</b>                        | 2 x 1/4-20 UNC thread (1x bottom side, 1x top side)  |
| <b>Housing material</b>                      | Durable aluminium body for long-time measurement stability   |
| <b>Environmental conditions</b>              |  |
| <b>Ambient temperature range</b>             | 15 °C to +30 °C (59 °F – 86 °F) - no dusty, windy and foggy environment  |
| <b>Relative humidity</b>                     | < 90% non-condensing   |
| <b>Storage temperature range</b>             | -30 °C to +60 °C (59 °F – 140 °F)  |
| <b>In the package</b>                        | 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  |

|   |   |   |
|---|---|---|
| <br><b>Variable distance</b><br><b>80 cm - 12 m</b><br><b>2.6 ft - 39 ft</b> | <br><b>Dual camera</b><br><b>Thermal</b><br><b>Full HD</b> | <br><b>High resolution</b><br><b>640 x 512 px</b><br><b>327 680 points</b> |
| <br><b>Automatic detection</b><br><b>Real-time</b><br><b>Without delay</b>   | <br><b>Operability</b><br><b>Unmanned</b><br><b>24/7</b>   | <br><b>Precision</b><br><b>± 0.3 °C</b><br><b>± 0.54 °F</b>                |



# Contact information

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