



- THERMAL SCAN
- 640PX THERMAL RESOLUTION
- 0.2 °C / 0.36 °F ACCURACY
- REAL-TIME CALIBRATION
- 0.03°C SENSITIVITY
- FULL HD CAMERA
- MADE IN EU
EU
QUALITY GUARANTEED
- TUV SUD
ISO 9001

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 | |
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| Dual camera face monitoring | Visual and Thermal camera face scanning in real-time with calibration |
| Onboard software in MEDICAS with real-time measurement | MEDICAS Software for full real-time temperature scanning and control - operating system ensures the full access to all camera functions - temperature measurement between 80 cm – 11 meters (2.6 ft – 36 ft) |
| Accurate measurement | Black body radiation source included in the package for accurate and stable measurement in all time, real-time recalibration every 2s |
| LED and Buzzer alarm | Front LED Alarm signalization and Buzzer Sound Alarm in camera |
| Thermal camera and Black Body specification | |
| IR camera resolution | 640 x 512 pixels |
| Temperature range | 0 °C to +50 °C (31 °F to 122 °F) calibrated for human face scanning |
| Temperature sensitivity | Standard resolution 0.03 °C (30mK) for thermal differences |
| Accuracy | ± 0.2 °C (± 0.36 °F) - blackbody installation at 150 cm (4.9 ft) or at 4 m (13.1 ft) for long-term precise measurement |
| Frame rates | Exportable version worldwide (commercial) or dual use (commercial) |
| Spectral range / detector | 7.5 – 13.5 μm / Uncooled VOx microbolometer |
| Black body calibration source | Standard Black body accuracy better than ± 0.07°C High emissivity 100mm diameter surface with precision digital PID Continuous camera recalibration every 2s via black body Special pyramid surface for decreasing the reflection |
| Lens (field of view) | 45° x 37° (spatial resolution 1.308 mrad), f/1.25 |
| Number of people per minute | Unlimited – all people are measured in the field of view in real-time or in separate Multi-ROI for face evaluation, DIO interface external connection |
| Digital visual camera | |
| Resolution | 1 920 x 1 080 pixels, 1/3" sensor for FULL HD images |
| Noise reduction | Special 3D noise reduction function |
| Focus | Autofocus |
| Memory and data recording | |
| Memory | Internal high-speed SSD 256GB for image and video recording External slot for Micro SD card for taking images |
| Image and video formats (as the option in ADMIN mode) | JPEG images and Digital camera Full HD JPEG images Digital camera h.264 encode video HD recording Encoded h.264 IR recording |
| Interfaces & real-time remote control | |
| Ethernet (RJ-45) port | Video streaming and camera control via MEDICAS SDK TCP/IP server, RTSP server and FTP server available on the camera |
| DIO interface cable | DIO interface accessories (4x digital outputs, 4x digital inputs, CANH, CANL), Max inductive load 2A, Max resistive load 5A, power supply +24V |
| USB and Micro USB port | Keyboard connection for MEDICAS camera control, mass storage function |



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| 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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|  <p>Variable distance 80 cm - 11 m 2.6 ft - 39 ft</p> |  <p>Dual camera Thermal Full HD</p> |  <p>High resolution 640 x 512 px 327 680 points</p> |
|  <p>Automatic detection Real-time Without delay</p> |  <p>Operability Unmanned 24/7</p> |  <p>Precision ± 0.2 °C ± 0.36 °F</p> |



Contact information

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