



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 1001

# 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 Software onboard in MEDICAS</b>	MEDICAS Software for full real-time temperature scanning and control - operating system ensures the full access to all camera functions - 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 High emissivity 100mm diameter surface with precision digital PID Continuous camera recalibration every 2s via black body 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 External slot for Micro SD card for taking images
<b>Image and video formats (as the option in ADMIN mode)</b>	Radiometric 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	
<b>Ethernet (RJ-45) port</b>	Video streaming and camera control via MEDICAS SDK 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> <b>Measurement functions:</b> Automatic hot spot detection <b>Temperature range settings:</b> Manual to set the best visualization option <b>Two-level advanced alarm for illness detection with 2 different colors</b> <b>Camera modes:</b> Dual IR and Visible mode with real-time two-level alarms <b>Color palettes:</b> 6 different color palettes <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

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



# Contact information

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