




THERMAL SCAN	640PX THERMAL RESOLUTION
0.3 °C ACCURACY	REAL-TIME CALIBRATION
0.03°C SENSITIVITY	FULL HD CAMERA
	

# WORKSWELL MEDICAS

## THERMAL CAMERA FOR FACE TEMPERATURE SCANNING



## Datasheet

# MEDICAS technical specification

MEDICAS Key features description	
Dual camera face monitoring	Visual and Thermal camera face scanning in <b>real-time with calibration</b>
No PC needed for connection Software onboard in MEDICAS	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
Accurate measurement	<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	
IR camera resolution	640 x 512 pixels
Temperature range	0 °C to +50 °C specifically calibrated for human face scanning
Temperature sensitivity	Standard resolution 0.03 °C (30mK) for thermal differences
Accuracy	± 0.3 °C (temperature accuracy according to reference blackbody at 4m or 8m focus distance and Black body calibration ROI region)
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 ± 0.09°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
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
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	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	
Ethernet (RJ-45) port	Video streaming and camera control via MEDICAS SDK TCP/IP server, RTSP server and FTP server available on the camera
AUX output interface	Camera digital interface cable for external relay DO unit (4 independent banks with 4 x 2 relay outputs, up to 230 VAC, max. 2A)
Micro USB 2.0 port	Mass storage access
USB 2.0 port	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>	<p><b>Real-time temperature correction via black body radiation source</b></p> <p><b>Measurement functions:</b> Automatic hot spot detection</p> <p><b>Temperature range settings:</b> Manual to set the best visualization option</p> <p><b>Two-level advanced alarm for illness detection with 2 different colors</b></p> <p><b>Camera modes:</b> Dual IR and Visible mode with real-time two-level alarms</p> <p><b>Color palettes:</b> 6 different color palettes</p> <p><b>Temperature units:</b> Celsius and Fahrenheit</p>
<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 (no dusty, windy and foggy environment)
<b>Relative humidity</b>	< 90% non-condensing
<b>Storage temperature range</b>	-30 °C to +60 °C
<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

KOORTSDETECTOR.NL



**0.3 °C**  
ACCURACY

**640px**  
THERMAL  
RESOLUTION

**FULL HD**  
CAMERA

**HDMI™**



## De Height Technologies **Plug&Play** zuil

- Zuil voor medicas system
- Camera system met lens
- Focus tool
- Lens beschermkap
- Losstaande Black body
- Black body kalibratie certificaat
- Black body bevestigingsadapter
- Micro SD kaart
- Software licentie
- Draadloos toetsenbord
- USB micro OTG kabel
- Quick start handleiding
- Transportkoffer voor camera
- 27" LCD scherm op zuil
- extra 27"LCD scherm
- HDMI-LAN adapter
- Levering en installatie op locatie
- Instructie op locatie
- Gepersonaliseerd design\*

\*De in **ORANJE** aangegeven vlakken kunnen wij geheel in uw gewenste stijl opmaken.  
De opmaak en productie is in de prijs inbegrepen.

