

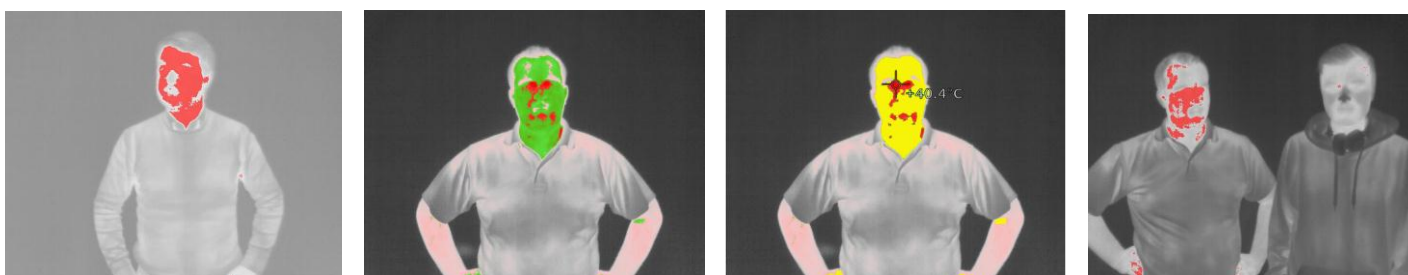


- THERMAL SCAN
- VISUAL SCAN
- REAL-TIME CALIBRATION
- SW MEDICAS
- 0.3 °C ACCURACY
- 0.03°C SENSITIVITY



# WORKSWELL MEDICAS

## THERMAL CAMERA FOR FACE SCANNING



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# Datasheet

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Release date: 30<sup>th</sup> January 2020

Revision Number: 1.0

# 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>Operating onboard software No PC needed for connection</b>	MEDICAS Software for full real-time temperature streaming and control - operating system ensures the full access to all camera functions - easy camera control via USB keyboard or Ethernet (on request)
<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 5s
Thermal camera specification	
<b>IR camera resolution</b>	640 x 512 pixels
<b>Temperature range</b>	0 °C to +50 °C specifically calibrated for human face scanning
<b>Temperature sensitivity</b>	Standard 0.03 °C (30 mK)
<b>Accuracy</b>	± 0.3 °C (temperature accuracy according to reference blackbody)
<b>Frame rate</b>	Exportable version worldwide (commercial use)
<b>Spectral range / detector</b>	7.5 – 13.5 μm / Uncooled VOx microbolometer
<b>Black body calibration source</b>	Continues camera recalibration every 5s via blackbody
<b>Lens</b>	45°
<b>Protective filter on lens</b>	Filter protects the lens against external damage and dust
<b>IR Digital zoom</b>	1 – 14x continuous
Digital visual camera	
<b>Resolution</b>	1 920 x 1 080 pixels (Full HD), 1/3" sensor, Auto white balance, Wide dynamic range, Backlight compensation, Exposure and Gamma control
<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</b>	Radiometric JPEG images and Digital camera Full HD JPEG images Digital camera h.264 encode video HD recording Radiometric full-frame IR recording (raw data recording)
Interfaces & real-time remote control	
<b>Ethernet (RJ-45) port</b>	Video streaming and camera control (on request)
<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



Camera functions	<b>Real-time temperature correction via Black body radiation source</b> <b>Measurement functions:</b> Hot spot face detection, center point <b>Temperature range settings:</b> Manual <b>Two-level advanced alarm for illness detection</b> <b>Camera modes:</b> real-time visualization in Picture-Picture mode with alarms <b>Temperature units:</b> Celsius and Fahrenheit
<b>Software &amp; SDK</b>	
Camera software	On board camera software for online temperature alarms and analysis
Ethernet SDK	Ethernet SDK for camera integration (on request)
<b>Power supply, weight &amp; dimensions</b>	
Input supply voltage	230VAC / 110VAC
Power dissipation (avg.)	12 W
Camera weight	< 450 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 upper side)
Housing material	Durable aluminium body for long-time measurement stability
<b>Environmental conditions</b>	
Ambient temperature range	15 °C to +30 °C (no dusty, windy and foggy environment)
Relative humidity	< 90% non-condensing
Storage temperature range	-30 °C to +60 °C
In the package	MEDICAS camera head, Blackbody radiation source, internal software MEDICAS OS, calibration certificate, power supply, hard transport case

Workswell MEDICAS



REAL-TIME  
CALIBRATION

0.3 °C  
ACCURACY





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