

# HUMAN BODY TEMPERATURE MEASUREMENT SYSTEM **TPC-BF2221-HTM+TPC-HBB-CHW** DAHUA

Net: **3 662.53 EUR** Gross: **4 504.91 EUR**

The camera together with the BLACK BODY module is used for precise measurement of body temperature and in case of exceeding the set threshold, to trigger the preset alarm action. The possibility of superimposing a thermal image on a visual image results in much greater readability compared to traditional thermal imaging cameras.

Thanks to the 1080p resolution, detailed supervision can be carried out, and the use of the BLACKBODY standard (an additional element of the system) ensures high temperature measurement accuracy of  $\pm 0.3^{\circ}\text{C}$ . The BLACK BODY module allows temperature measurement with high precision and very good stability.

The kit consists of a thermal imaging camera TPC-BF2221-HTM and Black Body TPC-HBB-CHW.



## SPECIFICATION

Sensor:	Uncooled VOx microbolometer
Matrix size:	256 x 192 px
Pixel pitch:	17 $\mu\text{m}$
Thermal sensitivity (NETD):	< 50 mK @ F1.0
Spectral range:	8 $\mu\text{m}$ ... 14 $\mu\text{m}$
Temperature measurement range:	30 $^{\circ}\text{C}$ ... 45 $^{\circ}\text{C} \pm 0.3^{\circ}\text{C}$ - with the Black body module
Color palettes:	18
Lens:	7.5 mm
View angle:	32 $^{\circ}$
Resolution:	1280 x 960 - 1.3 Mpx, 1024 x 768, 640 x 480

### VIDEO CAMERA:

Sensor:	1/2.8 " Progressive Scan CMOS
Matrix size:	2.1 Mpx
Lens:	6 mm
View angle:	53 $^{\circ}$
Optical zoom:	—
Digital zoom:	—
Min. illumination:	<ul style="list-style-type: none"> <li>• 0.01 Lux (color)</li> <li>• 0.001 Lux (B/W)</li> </ul>
Range of IR illumination:	50 m
Resolution:	1920 x 1080 - 1080p 1280 x 720 - 720p

Video output:	—
RS-485 interface:	✓
Memory card slot:	Micro SD memory cards up to 256GB support (possible local recording)
Image compression method:	H.265 / H.264M / H.264H / H.264B
Alarm inputs / outputs:	1 / 1
Audio:	<ul style="list-style-type: none"> <li>• External microphone input</li> <li>• Audio output</li> <li>• Speaker built-in</li> <li>• Bi-directional audio streaming support</li> </ul>
Bitrate:	640 ... 8192 kbps - H.264
Main stream frame rate:	25 fps @ 1280 x 960 25 fps @ 1080p
Network interface:	10/100 Base-T (RJ-45)
Network protocols:	IPv4/IPv6, HTTP, HTTPS, TCP, ARP, RTSP, RTP, UDP, RTCP, SMTP, FTP, DHCP, DNS, DDNS, PPPoE, SNMP, QoS, UPnP, NTP, Multicast, SFTP, IEEE 802.1x
WEB Server:	Built-in
Max. number of on-line users:	20
ONVIF:	✓
Mobile phones support:	Port 37777 <ul style="list-style-type: none"> <li>• Android: Free application <a href="#">DMSS</a></li> <li>• iOS (iPhone): Free application <a href="#">DMSS</a></li> </ul>
Default IP address:	192.168.1.108
Default admin user / password:	admin / - The administrator password should be set at the first start
Web browser access ports:	80, 37777
PC client access ports:	37777
Mobile client access ports:	37777
Port ONVIF:	80
RTSP URL:	rtsp://admin:hasło@192.168.1.108:554/cam/realmonitor?channel=1&subtype=0 - Main stream rtsp://admin:hasło@192.168.1.108:554/cam/realmonitor?channel=1&subtype=1 - Sub stream
Main features:	<ul style="list-style-type: none"> <li>• The possibility of overlapping the image from a thermal imaging camera in a classic image</li> <li>• 2D-DNR, 3D-DNR - Digital Noise Reduction</li> <li>• ROI - improve the quality of selected parts of image</li> <li>• WDR - Wide Dynamic Range</li> <li>• BLC/HLC - Back Light / High Light Compensation</li> <li>• ICR - Movable InfraRed filter</li> <li>• AGC - Automatic Gain Control</li> <li>• Sharpness - sharper image outlines</li> <li>• Mirror - Mirror image</li> <li>• Auto White Balance</li> </ul>
Power supply:	<ul style="list-style-type: none"> <li>• PoE (802.3af),</li> <li>• ePoE</li> <li>• 12 V DC / 1.5 A</li> </ul>
Power consumption:	≤ 18 W
Housing:	Compact - Metal
Color:	White
"Index of Protection":	IP67
Operation temp:	10 °C ... 30 °C



Weight:	1.4 kg
Dimensions:	365 x 175 x 176 mm
Supported languages:	English
Manufacturer / Brand:	DAHUA
Guarantee:	2 years

Black body:

Operation temp:	35 °C
Measurement resolution:	0.1 °C
Measurement stability:	± 0.1 °C ... ± 0.2 °C / 30 minutes
The surface of the radiator:	70 x 70 mm
Effective emission:	0.97
Ambient temperature:	5 °C ... 50 °C
Permissible relative humidity:	0 % ... 80 %
Weight:	2.6 kg
Dimensions:	184 x 125 x 125 mm
Guarantee:	2 years

**PRESENTATION**

Camera:



Black Body:



Schematic diagram (principle of operation):

