

Code: TPC-BF2221-HTM+TPC-HBB-CHW

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

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.



|                                |  |
|--------------------------------|--|
| 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: | —                             |



# DATA SHEET

|                                |   |
|--------------------------------|---|
| 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<br>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<br>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<br><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 / -<br>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<br>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                            |