

Code: TPC-BF2221-B7F8

## IP HYBRID THERMAL IMAGING CAMERA **TPC-BF2221-B7F8** 7.0 mm - 960p, 8.0 mm - 1080p DAHUA

The TPC-BF2221-B7F8 Dual Thermal Imaging Camera is a modern solution that allows to detect the presence of people, animals and vehicles regardless of the prevailing vision conditions. The device is equipped with sensitive VOx microbolometer that allows to observe the objects in fog, smoke and in the absence of illumination. An additional advantage of the TPC series cameras is the ability to detect fire and send a signal to the alarm control panel when it occurs.



|                             |                                                                          |
|-----------------------------|--------------------------------------------------------------------------|
| Sensor:                     | Uncooled VOx microbolometer                                              |
| Matrix size:                | 256 x 192 px                                                             |
| Pixel pitch:                | 12 µm                                                                    |
| Thermal sensitivity (NETD): | < 50 mK                                                                  |
| Spectral range:             | 8 µm ... 14 µm                                                           |
| Color palettes:             | 18                                                                       |
| Lens:                       | 7.0 mm                                                                   |
| View angle:                 | 24 °                                                                     |
| Resolution:                 | 1280 x 960 - 960p ,<br>1024 x 768 px ,<br>640 x 480 px ,<br>256 x 192 px |

### VIDEO CAMERA:

|                           |                               |
|---------------------------|-------------------------------|
| Sensor:                   | 1/2.8 " Progressive Scan CMOS |
| Matrix size:              | 2.1 Mpx                       |
| Scanning system:          | Progressive                   |
| Lens:                     | 8.0 mm                        |
| View angle:               | 40 °                          |
| Optical zoom:             | —                             |
| Digital zoom:             | x 16                          |
| Range of IR illumination: | 50 m                          |



# DATA SHEET

|                                |                                                                                                                                                                                 |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Resolution:                    | 1920 x 1080 - 1080p<br>1280 x 720 - 720p<br>704 x 576 - D1                                                                                                                      |
| General information:           |                                                                                                                                                                                 |
| Standard:                      | TCP/IP, CVBS                                                                                                                                                                    |
| Video output:                  | CVBS - 1 Vpp / 75 Ω, BNC                                                                                                                                                        |
| RS-485 interface:              | ✓                                                                                                                                                                               |
| Memory card slot:              | Micro SD memory cards up to 256GB support (possible local recording)                                                                                                            |
| Image compression method:      | H.265 / H.264 / MJPEG                                                                                                                                                           |
| Alarm inputs / outputs:        | 2 / 2                                                                                                                                                                           |
| Audio:                         | <ul style="list-style-type: none"><li>• External microphone input</li><li>• Audio output</li></ul>                                                                              |
| 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, TCP, ARP, RTSP, RTP, UDP, RTCP, SMTP, FTP, DHCP, DNS, DDNS, PPPoE, IPv4/IPv6, SNMP, QoS, UPnP, NTP                                                             |
| WEB Server:                    | Built-in, NVR compliance                                                                                                                                                        |
| 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 |

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| 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>• D-WDR - Wide Dynamic Range</li> <li>• ROI - improve the quality of selected parts of image</li> <li>• 2D-DNR, 3D-DNR - Digital Noise Reduction</li> <li>• F-DNR (Defog) - Reduction of image noise caused by precipitation</li> <li>• BLC/HLC - Back Light / High Light Compensation</li> <li>• PIP - Picture In Picture</li> <li>• ICR - Movable InfraRed filter</li> <li>• AGC - Automatic Gain Control</li> <li>• Mirror - Mirror image</li> <li>• Motion Detection</li> <li>• Configurable Privacy Zones</li> <li>• Audio detection</li> <li>• Sharpness - sharper image outlines</li> <li>• IVS analysis : crossing the line (tripwire), intrusion, abandoned/missing object, object detection (people, vehicle), fire detection - The IVS analysis functions can be defined independently for the thermal imaging camera and the vision camera</li> </ul> |
| Power supply:          | <ul style="list-style-type: none"> <li>• ePoE,</li> <li>• PoE (802.3af),</li> <li>• 12 V DC / 1 A</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Power consumption:     | ≤ 12 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Housing:               | Compact - Metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Color:                 | White                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| "Index of Protection": | IP67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Operation temp:        | -30 °C ... 60 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Dimensions:            | 96 x 104 x 280 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Weight:                | 1.4 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Supported languages:   | English                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Manufacturer / Brand:  | DAHUA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Guarantee:             | <b>3 years</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |