

Warning!

Please read the user manual included in this work as it contains important information related with safety of installation and use of the device.

Only persons who read the user manual may use the device.

The user manual must be kept because it may be required in the future. The device is to be used exclusively for purposes specified in this user manual.

The device must be unpacked prior to starting-up. After removing the packaging make sure the device is in working order. If the product has defects, it should not be used until it is repaired.

The product is intended for use at home and commercial use and may not be used for other than intended use.

The manufacturer is not liable for damages resulting from not adhering to the rules contained in the user manual, therefore, we recommend to follow the aforementioned safety rules for operation and maintenance of the device. In this way you will ensure yourself safety and avoid causing damage to the device.

The manufacturer and the supplier are not liable for losses or damages arising out of the product, including financial or intangible losses, loss of profits, income, data, pleasure from use of the product or other products related with it - indirect, incidental or consequential loss or damage. The above provisions apply whether the loss or damage concerns:

1. Deterioration of quality or the lack of operation of the products or products related with it due to damage as well as the lack of access to the product when it is undergoing repair, which results in stoppage the loss of user's time or a break in business activity; 2. Improper results of operation of the product or products related with it;

3. It applies to losses and damages according to any legal category, including negligence and other losses, termination of a contract, expressed or implied guarantee and strict liability (even if the manufacturer or the supplier was notified about the possibility of occurrence of such damages).

Safety measures:

Particular attention at designing was directed to quality standards of the device where ensuring safety of operation is the most important factor.

The device must be secured against contact with caustic, staining and viscous fluids.

The device was designed in such a way that it restarts operation when power supply is restored after a break.

Attention! We recommend using protections to further protect the device from possible overvoltages in installations. Surge protectors are effective protection against accidental pass to the device voltages higher than the rated. Damages caused by pass the voltages higher than specified in manual, are not under warranty.

Turn off the device before transporting it.

Prior to connecting the device to a power source check whether the supplied voltage is consistent with rated voltage specified in the user manual.

Proper product disposal:

A marking of a crossed out waste bin indicates that the product may not be disposed together with other household waste in the entire EU. To avoid possible damage to the natural environment of health due to uncontrolled waste disposal, therefore, it should be handed over for recycling, propagating in this way sustainable use of natural resources.

To return a worn-out product, use a collection and disposal system of this type of equipment or contact a seller from whom it was purchased. He will then be recycled in an environmentally-friendly way.







The DH-TPC-PT8320P-T100 Thermal Imaging Camera is a modern solution that allows to detect the presence of people, animals and vehicles regardless of 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:	336 x 256 px
Pixel pitch:	17 µm
Thermal sensitivity (NETD):	< 40 mK @ F1.0
Spectral range:	7 µт 14 µт
Color palettes:	14
Lens:	100 mm
View angle:	3.3 °
Resolution:	1280 x 1024 - 1.4 Mpx , 1280 x 720 - 720p , 640 x 512 - 0.3 Mpx
Operation modes:	Main and sub streams may be in any configuration Firmware 2.401.0000.1.R.3019.9A.NR, build : 2016-08-02 • Main stream : 1280 x 1024, 1280 x 720 • Sub stream : 640 x 512, 320 x 252
Temperature measurement:	• Spot • Line • Area max. 8 positions



DELTA-OPTI Monika Matysiak; https://www.delta.poznan.pl POL; 60-713 Poznań; Graniczna 10 e-mail: delta-opti@delta.poznan.pl; tel: +(48) 61 864 69 60



User Manual

Code: DH-TPC-PT8320P-T100 IP HYBRID THERMAL IMAGING CAMERA **DH-TPC-PT8320P-T100** 100 mm - 1.4 Mpx, 6 ... 180 mm -1080p DAHUA

Temperature measurement range:	• -40 °C +160 °C • -40 °C +550 °C
VIDEO CAMERA:	
Sensor:	1/1.9 " Progressive Scan Exmor CMOS
Matrix size:	2.1 Mpx
Scanning system:	Progressive
Lens:	6 180 mm
View angle:	61 ° 2.32 °
Optical zoom:	x 30
Digital zoom:	x 16
Min. illumination:	0.001 Lux (color) @ F1.5 0.0001 Lux (B/W) @ F1.5
S/N ratio:	> 56 dB (AGC off)
Resolution:	1920 x 1080 - 1080p 1280 x 720 - 720p 704 x 576 - D1
	Main and sub streams may be in any configuration
Operation modes:	Firmware 2.401.0000.1.R.3019.9A.NR, build : 2016-08-02 • Main stream : 1920 x 1080, 1280 x 720, 704 x 576 • Sub stream : 704 x 576, 353 x 288
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 128GB support (possible local recording)
Image compression method:	H.264 / MJPEG
Alarm inputs / outputs:	7/2
Audio:	External microphone inputAudio output
Bitrate:	1280 14336 kbps - H.264
Main stream frame rate:	25 fps @ 1280 x 1024 25 fps @ 1080p
Network interface:	10/100 Base-T (RJ-45)
Network protocols:	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x Radius
WEB Server:	Built-in, NVR compliance
Max. number of on-line users:	20
ONVIF:	2.42



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Mobile phones support:	Port 37777 • Android: Free application <u>DMSS</u> • iOS (iPhone): Free application <u>DMSS</u>
Default IP address:	192.168.1.108
Default admin user / password:	admin / admin
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
Preset rotation speed:	 160 °/s (horizontal) 60 °/s (vertical)
Rotation speed (manual control):	• 0.1 °/s 160 °/s (horizontal) • 0.1 °/s 60 °/s (vertical)
Horizontal rotation range:	360 ° - continuous
Vertical rotation range:	-40 ° 90 °
Protocols:	DH-SD, Pelco-P, Pelco-D
Number of presets:	300
Horizontal scan:	✓
Route settings:	5
Main features:	 DDE (Digital Detail Enhancement) - for high dynamic images, it automatically adjusts the contrast of the image to the temperature parameters. The DDE function is the ideal tool for quick and accurate testing of electrical installations. Thanks to it the image is much more detailed and sharpened FFC (Flat Field Correction) - background correction function - typically, it allows to raise the image intensity to x2. It compensates the lighting non-uniformities on the sensor ROI - improve the quality of selected parts of image 3D-DNR - Digital Noise Reduction AGC - Automatic Gain Control Motion Detection Configurable Privacy Zones PIP - Picture In Picture IVS analysis : crossing the line (tripwire), intrusion, abandoned/missing object, object detection (people, vehicle), fire detection WDR - 120 dB - Wide Dynamic Range BLC/HLC - Back Light / High Light Compensation Intelligent Object Tracking Motion Detection Sharpness - sharper image outlines Mirror - Mirror image Day/Night mode (color/b&w/auto) ICR - Movable InfraRed filter Wiper The device has a built-in heater
Power supply:	24 V AC / 2900 mA (power adapter included)



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Power consumption:	≤ 70 W
"Index of Protection":	IP66
Color:	White
Operation temp:	-40 °C 70 °C
Weight:	13.2 kg
Dimensions:	252 x 360 x 464 mm
Supported languages:	English
Manufacturer / Brand:	DAHUA
Guarantee:	3 years

Front view:



Side view:







Internal view, after remove the cover:







Camera dimensions:



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DH-TPC-PT8320P-T100





In the kit:



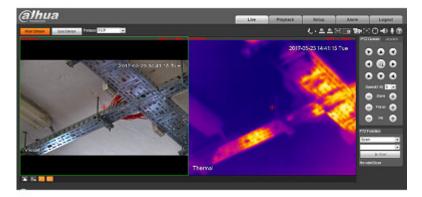
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Example captures of device interface:



PACKAGE

Dimensions (L x W x H): 0x0x0 mm Gross Weight: 0 kg

