

Code: DS-2TD1228T-2/QA

## IP HYBRID THERMAL IMAGING CAMERA **DS-2TD1228T-2/QA** 2.1 mm - 720p, 2.2 mm - 4 Mpx Hikvision

The DS-2TD1228T-2/QA 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 DS-2TDxxxx 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):	≤ 40 mK @ F1.0
Spectral range:	8 μm ... 14 μm
Color palettes:	✓
Lens:	2.1 mm
View angle:	90 °
Optical zoom:	—
Digital zoom:	2x, 4x
Resolution:	1280 x 720 - 720p , 704 x 576 640 x 512 320 x 240
Temperature measurement:	<ul style="list-style-type: none"> <li>• Spot</li> <li>• Line</li> <li>• Area</li> </ul> max. 21 positions
Temperature measurement range:	-20 °C ... 550 °C
Accuracy of temperature measurement:	± 2 °C

VIDEO CAMERA:



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Sensor:	1/2.7 " Progressive Scan CMOS
Matrix size:	4 Mpx
Lens:	2.2 mm
View angle:	117.8 °
Optical zoom:	—
Digital zoom:	—
Range of IR illumination:	15 m
White light LED illuminator range:	30 m
Resolution:	2688 x 1520 - 4 Mpx 1920 x 1080 - 1080p 1280 x 720 - 720p

## General information:

Standard:	IP
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.264 / MJPEG
Alarm inputs / outputs:	1 / 1
Audio:	<ul style="list-style-type: none"><li>• External microphone input / Audio input,</li><li>• Audio output,</li><li>• Bi-directional audio streaming support,</li><li>• Speaker built-in</li></ul>
Main stream frame rate:	25 fps @ 4 Mpx
Network interface:	10/100 Base-T (RJ-45)
WEB Server:	Built-in
Max. number of on-line users:	32
ONVIF:	✓
Mobile phones support:	Port no.: 8000 or access by a cloud (P2P) <ul style="list-style-type: none"><li>• Android: Free application <a href="#">iVMS-4500</a> or <a href="#">Hik-Connect</a></li><li>• iOS (iPhone): Free application <a href="#">iVMS-4500</a> or <a href="#">Hik-Connect</a></li></ul>
Default IP address:	192.168.1.64
Default admin user / password:	admin / - The administrator password should be set at the first start
Web browser access ports:	80
PC client access ports:	Port no.: 8000 or access by a cloud (P2P) - iVMS-4200 application
Mobile client access ports:	8000
Port ONVIF:	80



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RTSP URL:	<ul style="list-style-type: none"><li>• Main stream VIDEO CAMERA : rtsp://user:password@192.168.1.64:554/Streaming/Channels/101/ THERMAL IMAGING CAMERA : rtsp://user:password@192.168.1.64:554/Streaming/Channels/201/</li><li>• Sub stream VIDEO CAMERA : rtsp://user:password@192.168.1.64:554/Streaming/Channels/102/ THERMAL IMAGING CAMERA : rtsp://user:password@192.168.1.64:554/Streaming/Channels/202/</li></ul>
Intelligent image analysis:	<ul style="list-style-type: none"><li>• IVS analysis : crossing the line (tripwire), intrusion, detection of entry into the area / exit from the area</li><li>• Smoke detection</li><li>• fire detection</li><li>• object detection (people, vehicle)</li></ul>
Main features:	<ul style="list-style-type: none"><li>• WDR - 120 dB - Wide Dynamic Range</li><li>• 3D-DNR - Digital Noise Reduction</li><li>• AGC - Automatic Gain Control</li><li>• WB - White Balance (ATW/AWB/manual/indoor/outdoor)</li><li>• ICR - Movable InfraRed filter</li><li>• Day/night mode</li><li>• DDE (Digital Detail Enhancement) - the function automatically optimizes the contrast of the thermal image in high-dynamic scenes - small differences in the temperature distribution of the examined object are highlighted</li><li>• The possibility of overlapping the image from a thermal imaging camera in a classic image</li><li>• PIP - Picture In Picture</li><li>• Sun-reflection filter</li><li>• Temperature measurement</li><li>• Intelligent alarm linked to turning on white light and loudspeaker</li><li>• NAS - Network Attached Storage support - allows to connect memory resources directly to the computer network</li><li>• The ANR (Automatic Network Replenishment) function - ensures integrity of recording data in the event of network failures. It bases on automatic saving the recording data to microSD card inserted inside the camera, and after failure is end, the recorded data are automatically synchronized with the recorder</li></ul>
Protections:	<ul style="list-style-type: none"><li>• Protection against lightning discharges : 4 kV</li><li>• Overvoltage limiter, Overvoltage protection</li></ul>
Power supply:	<ul style="list-style-type: none"><li>• PoE (802.3af),</li><li>• 12 V DC / 500 mA</li></ul>
Power consumption:	<ul style="list-style-type: none"><li>≤ 6 W @ 12 V DC</li><li>≤ 6.5 W @ PoE (802.3af)</li></ul>
Housing:	Dome - Metal
Color:	White
"Index of Protection":	IP67
Mechanical protection class:	—
Operation temp:	-40 °C ... 65 °C
Weight:	0.94 kg
Dimensions:	Ø 138.3 x 123.1 mm
Supported languages:	Polish, English, Bulgarian, Croatian, Czech, Danish, Estonian, Finnish, French, Greek, Spanish, Dutch, Lithuanian, Latvian, German, Norwegian, Portuguese, Russian, Romanian, Serbian, Slovak, Slovenian, Swedish, Turkish, Hungarian, Italian
Manufacturer / Brand:	Hikvision
SAP Code:	305401679



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Guarantee:

**3 years**