



	<a href="#">IP HYBRID THERMAL IMAGING CAMERA DS-2TD1228-2/QA</a> <a href="#">2.1 mm - 720p, 2.2 mm - 4 Mpx Hikvision</a>	<a href="#">CABLE GLAND D/M-20X1.5</a> <a href="#">IP68 M20 x 1.5</a>
		
	828.85 EUR 828.85 EUR	0.53 EUR 0.53 EUR
Type (size)	...	M20 x 1.5
Pixel pitch	12 µm	...
Cable diameter	...	Ø 6 ... 12 mm
Material	...	Plastic
Thermal sensitivity (NETD)	≤ 40 mK @ F1.1	...
Spectral range	8 µm ... 14 µm	...
Color palettes	✓	...
Temperature measurement	• Spot • Line • Area max. 21 positions	...
Temperature measurement range	-20 °C ... 150 °C	...
Accuracy of temperature measurement	± 8 °C	...
Sensor	Uncooled VOx microbolometer 1/2.7 " Progressive Scan CMOS	...
Matrix size	256 x 192 px 4 Mpx	...
Lens	2.1 mm 2.2 mm	...
View angle	90 ° 117.8 °	...
Optical zoom	— —	...
Digital zoom	2x, 4x —	...
Range of IR illumination	15 m	...
White light LED illuminator range	30 m	...

Resolution	1280 x 720 - 720p , 704 x 576 640 x 512 320 x 240 2688 x 1520 - 4 Mpx 1920 x 1080 - 1080p 1280 x 720 - 720p	...
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	...
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 :</li> <li>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 :</li> <li>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>• 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>• 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 : 6 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	IP68
Mechanical protection class	—	...
Operation temp	-40 °C ... 65 °C	...
Weight	0.94 kg	0.01 kg
Dimensions	Ø 138.3 x 123.1 mm	37 x 29 x 29 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	305401564	...
Guarantee	3 years	...