



	<a href="#">IP HYBRID THERMAL IMAGING CAMERA DS-2TD2628-10/OA 9.7 mm - 720p, 8 mm - 4 Mpx Hikvision</a>	<a href="#">IP HYBRID THERMAL IMAGING CAMERA TPC-SD2241-TB7F8-S2 7 mm - 960p, 8 mm - 4 Mpx DAHUA</a>
		
	3448.00 PLN 3448.00 PLN	10401.00 PLN 10401.00 PLN
Pixel pitch	12 µm	12 µm
Thermal sensitivity (NETD)	≤ 40 mK @ F1.0	≤ 40 mK
Spectral range	8 µm ... 14 µm	8 µm ... 14 µm
Color palettes	✓	18
Temperature measurement	<ul style="list-style-type: none"> <li>• Spot</li> <li>• Line</li> <li>• Area</li> </ul> max. 21 positions	<ul style="list-style-type: none"> <li>• Spot</li> <li>• Line</li> <li>• Area</li> </ul> max. 12 positions
Temperature measurement range	-20 °C ... 150 °C	<ul style="list-style-type: none"> <li>• -20 °C ... +150 °C</li> <li>• 0 °C ... +550 °C</li> </ul>
Accuracy of temperature measurement	± 8 °C	...
Sensor	Uncooled VOx microbolometer 1/2.7 " Progressive Scan CMOS	Uncooled VOx microbolometer 1/2.7 " Progressive Scan CMOS
Matrix size	256 x 192 px 4 Mpx	256 x 192 px 4 Mpx
Lens	9.7 mm 8 mm	7 mm 8 mm
View angle	18 ° 39.4 °	24 ° 33.4 °
Optical zoom	— —	—
Digital zoom	2x, 4x —	—
Range of IR illumination	30 m	50 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	1280 x 960 - 960p , 1024 x 768 px , 640 x 480 px , 256 x 192 px 2336 x 1752 - 4 Mpx , 1920 x 1080 - 1080p , 1280 x 720 - 720p , 704 x 576 - D1
Standard	IP	IP, CVBS
Video output	CVBS, SPOT output : 1.0 Vpp / 75 Ω	CVBS - 1 Vpp / 75 Ω, BNC
RS-485 interface	✓	✓
Memory card slot	Micro SD memory cards up to 256GB support (possible local recording)	Micro SD memory cards up to 256GB support (possible local recording)
Image compression method	H.265 / H.264 / MJPEG	H.265 / H.264 / H.264H
Alarm inputs / outputs	2 / 2	2 / 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>	<ul style="list-style-type: none"> <li>• 1 pcs Input</li> <li>• 1 pcs Output</li> <li>• Bi-directional audio streaming support</li> </ul>
Main stream frame rate	25 fps @ 4 Mpx	25 fps @ 1280 x 960 25 fps @ 4 Mpx
Network interface	10/100 Base-T (RJ-45)	...
Interface	...	10/100 Base-T (RJ-45)

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WEB Server	Built-in	Built-in, NVR compliance
Max. number of on-line users	32	10
ONVIF	✓	✓
Mobile phones support	Port no.: 8000 or access by a cloud (P2P) • Android: Free application <a href="#">Hik-Connect</a> • iOS: Free application <a href="#">Hik-Connect</a>	Port 37777 • Android: Free application <a href="#">DMSS</a> • iOS (iPhone): Free application <a href="#">DMSS</a>
Default IP address	192.168.1.64	192.168.1.108
Default admin user / password	admin / - The administrator password should be set at the first start	admin / - The administrator password should be set at the first start
Web browser access ports	80	80, 37777
PC client access ports	Port no.: 8000 or access by a cloud (P2P) - iVMS-4200 application	37777
Mobile client access ports	8000	37777
Port ONVIF	80	80
Preset rotation speed	...	• 240 °/s (horizontal) • 200 °/s (vertical)
RTSP URL	• 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/ • 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/	rtsp://admin:hasio@192.168.1.108:554/cam/realmonitor?channel=1&subtype=0 • Main stream rtsp://admin:hasio@192.168.1.108:554/cam/realmonitor?channel=1&subtype=1 • Sub stream
Rotation speed (manual control)	...	• 0.1 °/s ... 200 °/s (horizontal) • 0.1 °/s ... 120 °/s (vertical)
Horizontal rotation range	...	360 ° - continuous
Vertical rotation range	...	-15 ° ... 90 °
Protocols	...	DH-SD, Pelco-P, Pelco-D - Auto detection
Number of presets	...	300
Horizontal scan	...	✓
Route settings	...	8
Protections	• Protection against lightning discharges : 6 kV • Overvoltage limiter, Overvoltage protection	...
Intelligent image analysis	• IVS analysis : crossing the line (tripwire), intrusion, detection of entry into the area / exit from the area • object detection (people, vehicle) • fire detection • Smoke detection	• IVS analysis : crossing the line (tripwire), intrusion • Smoke detection • fire detection • object detection (people, vehicle) • intelligent tracking of warmest / coldest point
Mechanical protection class	IK10	...



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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>	<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>• F-DNR (Defog) - Reduction of image noise caused by precipitation</li> <li>• ROI - improve the quality of selected parts of image</li> <li>• D-WDR - Wide Dynamic Range</li> <li>• BLC/HLC - Back Light / High Light Compensation</li> <li>• AGC - Automatic Gain Control</li> <li>• EIS - Electronic Image Stabilization</li> <li>• WB - White Balance (ATW/AWB/manual/indoor/outdoor)</li> <li>• Day/night mode</li> <li>• ICR - Movable InfraRed filter</li> <li>• AutoFocus</li> <li>• DDE - Digital Detail Enhancement</li> <li>• PIP - Picture In Picture</li> <li>• Motion Detection</li> <li>• Temperature measurement</li> <li>• Intelligent alarm linked to turning on white light and loudspeaker</li> <li>• 6kV protection of the camera and its structure against the effects of lightning</li> <li>• Protection against electrostatic discharge - Contact/Air (ESD/EMP) : 8 / 15 kV</li> </ul>
Power supply	<ul style="list-style-type: none"> <li>• PoE (802.3af),</li> <li>• 12 V DC,</li> <li>• 24 V AC</li> </ul>	<ul style="list-style-type: none"> <li>• 12 V DC / 1.62 A</li> <li>• PoE+ - IEEE 802.3at</li> <li>• ePoE</li> </ul>
Power consumption	≤ 8.5 W	<ul style="list-style-type: none"> <li>≤ 19.6 W @ PoE</li> <li>≤ 19,4 W @ 12 V DC</li> </ul>
Housing	Compact - Metal	Speed Dome
Color	White	White
"Index of Protection"	IP67	IP66
Operation temp	-40 °C ... 65 °C	-30 °C ... 60 °C
Weight	1.76 kg	3.2 kg
Dimensions	358.3 x 113.5 x 115.2 mm	Ø 160 x 295 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	English
Manufacturer / Brand	Hikvision	DAHUA
SAP Code	305401575	...
Guarantee	3 years	3 years