




	<a href="#">IP SPEED DOME CAMERA OUTDOOR SD5A232GB-HNR - 1080p 4.5 ... 144 mm DAHUA</a>	<a href="#">IP SPEED DOME CAMERA OUTDOOR TC-H344S SPEC:25X/I/E+/AV3.0 - 3.7 Mpx 4.8 ... 120 mm TIANDY</a>	<a href="#">IP CAMERA DS-2CD1347G2H-LIU(2.8MM) Smart Hybrid Light - 4 Mpx Hikvision</a>
			
	6676.00 PLN 6676.00 PLN	4111.00 PLN 4111.00 PLN	827.00 PLN 827.00 PLN
Standard	TCP/IP	IP	IP
Matrix size	2.1 Mpx	...	...
Sensor	1/2.8 " STARVIS™ CMOS	1/2.7 " Progressive Scan CMOS	1/3 " Progressive Scan CMOS
Resolution	1920 x 1080 - 1080p , 1280 x 960 1.3 Mpx , 1280 x 720 720p	2560 x 1440 - 3.7 Mpx , 2304 x 1296 - 3 Mpx , 1920 x 1080 - 1080p , 1280 x 720 - 720p	2560 x 1440 - 4 Mpx , 1920 x 1080 - 1080p 1280 x 720 - 720p
White light LED illuminator range	...	...	30 m
Lens	4.5 ... 144 mm	4.8 ... 120 mm	2.8 mm
View angle	• 58 ° ... 3 ° (manufacturer data) • 56 ° ... 3 ° (our tests result)	58 ° ... 2.8 °	96 °
Optical zoom	x 32	x 25	...
Digital zoom	x 16	x 16	...
Range of IR illumination	150 m	150 m	30 m
Video output	—	—	...
Preset rotation speed	• 400 °/s (horizontal) • 300 °/s (vertical)	• 240 °/s (horizontal) • 180 °/s (vertical)	...
Rotation speed (manual control)	• 0.1 °/s ... 300 °/s (horizontal) • 0.1 °/s ... 200 °/s (vertical)	• 0.1 °/s ... 200 °/s (horizontal), • 0.1 °/s ... 120 °/s (vertical)	...
Horizontal rotation range	360 ° - continuous	360 ° - continuous	...
Interface	...	...	10/100 Base-T (RJ-45)
Vertical rotation range	-15 ° ... 90 °	-16 ° ... 90 °	...
RS-485 interface	—	✓	...
Number of presets	300	500	...
Horizontal scan	✓	✓	...
Route settings	8	8	...
Image compression method	H.265+ / H.265 / H.264+ / H.264 / MJPEG	S+265 / H.265 / H.264 / MJPEG	H.265+ / H.265 / H.264+ / H.264 / MJPEG
Alarm inputs / outputs	2 / 1	1 / 1	—
Audio	• External microphone input • Audio output • Bi-directional audio streaming support • Audio detection • Compliance with the AAC standard	• Audio input • Audio output	• Microphone built-in • Audio transmission via network • Compliance with the AAC standard • Noise and echo reduction
Main stream frame rate	25 fps @ 1080p	25 fps @ 3.7	20 fps @ 4 Mpx 25 fps @ 1080p
Network interface	10/100 Base-T (RJ-45)	10/100 Base-T (RJ-45)	...
Access from PC	...	Port no.: 3000 or access by a cloud (P2P) - PC: Free application <a href="#">Easy7 Smart Client Express</a>	...
Network protocols	HTTP, HTTPS, TCP, IPv4/IPv6, RTSP, UDP, SMTP, NTP, DHCP, DNS, DDNS, IEEE 802.1x, QoS, FTP, UPnP, ICMP, SNMP, SNMPv1/v2c/v3(MIB-2), IGMP, ARP, RTP, RTCP, RTP, RTMP, PPPoE, SSL	...	...
Mechanical protection class	...	...	—
WEB Server	Built-in	Built-in	Built-in
Max. number of on-line users	20	7	6

DELTA-OPTI Monika Matysiak / VAT:PL5251295225 / 60-713 Poznań, ul. Graniczna 10  
Tel:+48 61 864 69 60 / GSM:+48 607 60 11 66 / Fax:+48 61 864 69 65 / e-mail: info@delta.poznan.pl  
Monday-Friday: 8.00-19.00 / Saturday: 8.00-14.00

Intelligent image analysis	...	<ul style="list-style-type: none"> <li>• classification of people and vehicles</li> <li>• crossing the line (tripwire)</li> <li>• double crossing the line</li> <li>• intrusion</li> <li>• abandoned/missing object</li> <li>• illegal parking</li> <li>• people counting</li> <li>• detection of people gathering</li> <li>• heat map</li> <li>• detection of loitering in a given area</li> <li>• running</li> <li>• protective helmet detection</li> <li>• detection of persons on duty</li> <li>• face detection</li> <li>• video tampering</li> <li>• Intelligent Object Tracking</li> </ul>	...
ONVIF	21.12	✓	✓
Memory card slot	Micro SD memory cards up to 512GB support (possible local recording)	Micro SD card support up to 512GB	—
Mobile phones support	Port no.: 37777 or access by a cloud (P2P) • Android: Free application <a href="#">DMSS</a> • iOS (iPhone): Free application <a href="#">DMSS</a>	Port no.: 3000 or access by a cloud (P2P) • Android: Free application <a href="#">EasyLive Plus</a> • iOS (iPhone): Free application <a href="#">EasyLive Plus</a>	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>
Default IP address	192.168.1.108	192.168.1.2	192.168.1.64
SAP Code	...	...	311325148
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	admin / - The administrator password should be set at the first start
Web browser access ports	80, 37777	80, 443, 3000, 3001, 3002, 23002	80
PC client access ports	37777	3000, 3001	Port no.: 8000 or access by a cloud (P2P) - iVMS-4200 application
Mobile client access ports	37777	3000, 3001	8000
Port ONVIF	80	80	80
RTSP URL	rtsp://admin:haslo@192.168.1.108:554/cam/realmonitor?channel=1&subtype=0 - Main stream rtsp://admin:haslo@192.168.1.108:554/cam/realmonitor?channel=1&subtype=1 - Sub stream	...	<ul style="list-style-type: none"> <li>• Main stream : rtsp://user:password@192.168.1.64:554/Streaming/Channels/101/</li> <li>• Sub stream : rtsp://user:password@192.168.1.64:554/Streaming/Channels/102/</li> </ul>



Main features	<ul style="list-style-type: none"> <li>• Intelligent Object Tracking</li> <li>• WDR - 120 dB - Wide Dynamic Range</li> <li>• 2D-DNR, 3D-DNR - Digital Noise Reduction</li> <li>• EIS - Electronic Image Stabilization</li> <li>• ROI - improve the quality of selected parts of image</li> <li>• F-DNR (Defog) - Reduction of image noise caused by precipitation</li> <li>• SMD 4.0 - searching for an object classified as: human, motor vehicle - increased detection distance and resistance to false alarms</li> <li>• Quick Pick - AI technology enabling, together with the recorder, quick identification of interesting objects (people/vehicles) based on an artificial intelligence algorithm. It allows to extract and compare the colors of clothes and vehicles</li> <li>• BLC - Back Light Compensation</li> <li>• Motion Detection</li> <li>• Privacy zones - max. 24</li> <li>• Day/night mode</li> <li>• ICR - Movable InfraRed filter</li> <li>• AGC - Automatic Gain Control</li> <li>• Auto White Balance</li> <li>• Sharpness - sharper image outlines</li> <li>• Filtering of false alarms based on the recognition of persons and vehicles (tripwire, intrusion)</li> <li>• Smart motion detection (with recognizing people and vehicles)</li> <li>• IVS analysis : crossing the line (tripwire), intrusion, abandoned/missing object, linkage tracking, fast moving, parking detection, detection of people gathering, loitering detection, face detection - advanced face capture features, supports 6 types of facial attributes extraction</li> </ul>	<ul style="list-style-type: none"> <li>• WDR - 120 dB - Wide Dynamic Range</li> <li>• 2D-DNR, 3D-DNR - Digital Noise Reduction</li> <li>• ROI - improve the quality of selected parts of image</li> <li>• F-DNR (Defog) - Reduction of image noise caused by precipitation</li> <li>• ANR - Automatic Network Replenishment allows to save image to the card when the network connection with DVR is break (network failure) and next synchronize its</li> <li>• NAS - Network Attached Storage support - allows to connect memory resources directly to the computer network</li> <li>• BLC/HLC - Back Light / High Light Compensation</li> <li>• Day/night mode</li> <li>• ICR - Movable InfraRed filter</li> <li>• Motion Detection</li> <li>• Image rotation and mirror</li> <li>• Adaptive adjusting of the IR illuminator power to the lens zoom and outdoor light conditions</li> </ul>	<ul style="list-style-type: none"> <li>• Smart Hybrid Light technology - IR or LED illuminator works in night mode, White light will turn on automatically only when an object is detected in the monitored area, which effectively improves image quality</li> <li>• Possibility to turn off the LED illuminator</li> <li>• WDR - 120 dB - Wide Dynamic Range</li> <li>• 3D-DNR - Digital Noise Reduction</li> <li>• ROI - improve the quality of selected parts of image</li> <li>• BLC - Back Light Compensation</li> <li>• HLC - High Light Compensation (spot)</li> <li>• Possibility to change the resolution, quality and bit rate</li> <li>• Image rotation and mirror</li> <li>• Sharpness - sharper image outlines</li> <li>• video tampering</li> <li>• Configurable Privacy Zones</li> <li>• Smart motion detection (with recognizing people and vehicles)</li> </ul>
Power supply	<ul style="list-style-type: none"> <li>• PoE (802.3at),</li> <li>• 24 V DC / 2.5 A (power adapter included)</li> </ul>	<ul style="list-style-type: none"> <li>• PoE (802.3at),</li> <li>• 12 V DC</li> </ul>	<ul style="list-style-type: none"> <li>• PoE (802.3af),</li> <li>• 12 V DC / 500 mA</li> </ul>
Power consumption	max. 22 W	≤ 19.4 W	<ul style="list-style-type: none"> <li>• ≤ 7.5 W @ PoE</li> <li>• ≤ 6 W @ 12 V DC</li> </ul>
Housing	Speed Dome, Metal + Plastic	Speed Dome, Aluminum	Dome, Metal + Plastic
Color	White + Black	White + Black	White
Operation temp	-40 °C ... 70 °C	-30 °C ... 65 °C	-30 °C ... 60 °C
"Index of Protection"	IP67	IP66	IP67
Vandal-proof	IK10	—	...
Weight	5.37 kg (with bracket)	3 kg	0.39 kg
Dimensions	190 x 415 x 268 mm (with bracket)	Ø 161 x 276 mm	Ø 110 x 93 mm
Supported languages	Polish, English, Czech, Spanish, French, Dutch, German, Portuguese Romanian, Russian Turkish Hungarian, Italian	Polish, English, Albanian, Arabic, Korean, French, Hebrew, Spanish, Dutch, German, Portuguese, Russian, Thai, Turkish, Ukrainian, Vietnamese, Italian	English, Ukrainian
Manufacturer / Brand	DAHUA	TIANDY	Hikvision
Guarantee	5 years	3 years	3 years