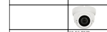
	IP CAMERA APTI-AI401VA3-2812W - 4 Mpx 2.8 ... 12 mm	IP CAMERA APTI-55V3-27135WP-Z - 3.7 Mpx 2.7 ... 13.5 mm - MOTOZOOM	IP CAMERA APTI-86V3-27135WP-Z - 8.3 Mpx, 4K UHD 2.7 ... 13.5 mm - MOTOZOOM	IP CAMERA IPC3634LB-ADZK-H - 4 Mpx 2.8 ... 12 mm - MOTOZOOM UNIVIEW	IP CAMERA IPC3635LB-ADZK-H - 5 Mpx 2.8 ... 12 mm - MOTOZOOM UNIVIEW	IP CAMERA IPC-HDW1431T-ZS-2812-S4 - 4 Mpx 2.8 ... 12 mm - MOTOZOOM DAHUA	IP CAMERA IPC-HDW2441T-ZS-27135 WizSense - 4 Mpx 2.7 ... 13.5 mm - MOTOZOOM DAHUA	IP CAMERA IPC-HDW2541T-ZS-27135 WizSense - 5 Mpx 2.7 ... 13.5 mm - MOTOZOOM DAHUA	IP CAMERA IPC-HDW2541T-ZS-27135-S2 WizSense - 5 Mpx 2.7 ... 13.5 mm - MOTOZOOM DAHUA	IP CAMERA IPC-HDW2841T-ZS-27135 WizSense - 8.3 Mpx, 2.7 ... 13.5 mm - MOTOZOOM DAHUA
										
	68.56 EUR 68.56 EUR	147.47 EUR 147.47 EUR	168.15 EUR 168.15 EUR	280.14 EUR 280.14 EUR	294.17 EUR 294.17 EUR	294.93 EUR 294.93 EUR	358.61 EUR 358.61 EUR	397.63 EUR 397.63 EUR	397.63 EUR 397.63 EUR	437.13 EUR 437.13 EUR
Standard	IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP
Matrix size	...	4 Mpx	8.3 Mpx	4 Mpx	5 Mpx	4 Mpx	4 Mpx	5 Mpx	5 Mpx	8.3 Mpx
White light LED illuminator range	...	...	...	...	...	...	...	...	...	...
Sensor	1/3 " Progressive Scan CMOS	1/2.8 " SONY Starvis™ Back-illuminated CMOS	1/2.8 " SONY Starvis™ Back-illuminated CMOS	1/3 " Progressive Scan CMOS	1/2.7 " Progressive Scan CMOS	1/3 " Progressive Scan CMOS	1/2.9 " Progressive Scan CMOS	1/2.7 " Progressive Scan CMOS	1/2.7 " Progressive Scan CMOS	1/2.7 " Progressive Scan CMOS
Resolution	2688 x 1512 - 4 Mpx , 2560 x 1440 - 3.7 Mpx , 1920 x 1080 - 1080p , 1280 x 720 - 720p	2560 x 1440 - 3.7 Mpx , 1920 x 1080 - 1080p , 1280 x 720 - 720p	3840 x 2160 - 8.3 Mpx, 4K UHD , 2560 x 1440 - 3.7 Mpx , 1920 x 1080 - 1080p , 1280 x 720 - 720p	2688 x 1520 - 4 Mpx , 2560 x 1440 - 3.7 Mpx , 2304 x 1296 - 3 Mpx , 1920 x 1080 - 1080p , 1280 x 720 - 720p	2880 x 1620 - 5 Mpx , 2560 x 1440 - 3.7 Mpx , 2304 x 1296 - 3 Mpx , 1920 x 1080 - 1080p	2688 x 1520 - 4 Mpx , 2560 x 1440 - 3.7 Mpx , 2304 x 1296 - 3 Mpx , 1920 x 1080 - 1080p , 1280 x 960 - 1.3 Mpx 1280 x 720 - 720p	2688 x 1520 - 4 Mpx , 2560 x 1440 - 3.7 Mpx , 2304 x 1296 - 3 Mpx , 1920 x 1080 - 1080p , 1280 x 960 - 1.3 Mpx 1280 x 720 - 720p	2592 x 1944 - 5 Mpx , 2688 x 1520 - 4 Mpx , 2304 x 1296 - 3 Mpx , 1920 x 1080 - 1080p 1280 x 960 - 1.3 Mpx 1280 x 720 - 720p	2960 x 1668 - 5 Mpx , 2880 x 1620 - 4.7 Mpx , 2688 x 1520 - 4.7 Mpx , 2048 x 1536 - 3 Mpx , 2304 x 1296 - 3 Mpx , 1920 x 1080 - 1080p , 1280 x 960 - 1.3 Mpx , 1280 x 720 - 720p	3840 x 2160 - 8.3 Mpx, 4K UHD , 3072 x 2048 - 6.3 Mpx , 3072 x 1728 - 5.3 Mpx , 2880 x 1620 - 4.7 Mpx , 2688 x 1520 - 4 Mpx , 2048 x 1536 - 3.1 Mpx , 2304 x 1296 - 3 Mpx , 1920 x 1080 - 1080p 1280 x 960 - 1.3 Mpx , 1280 x 720 - 720p
Lens	2.8 ... 12 mm	2.7 ... 13.5 mm - Motozoom	2.7 ... 13.5 mm - Motozoom	2.8 ... 12 mm - Motozoom, AutoFocus	2.8 ... 12 mm - Motozoom, AutoFocus	2.8 ... 12 mm - Motozoom	2.7 ... 13.5 mm - Motozoom	2.7 ... 13.5 mm - Motozoom	2.7 ... 13.5 mm - Motozoom	2.7 ... 13.5 mm - Motozoom
S/N ratio	...	...	...	...	...	...	...	...	...	...
View angle	91 ° ... 31 °	• 103 ° ... 29 ° (manufacturer data) • 92 ° ... 28 (our tests result)	• 97 ° ... 26 ° (manufacturer data) • 102 ° ... 32 (our tests result)	86 ° ... 35 °	96 ° ... 33 °	• 98 ° ... 31 ° (manufacturer data) • 93 ° ... 31 ° (our tests result)	104 ° ... 29 °	• 100 ° ... 30 ° (manufacturer data) • 95 ° ... 26 ° (our tests result)	113 ° ... 31 °	• 113 ° ... 31 ° (manufacturer data) • 110 ° ... 32 ° (our tests result)
Range of IR illumination	30 m	30 m	25 m	40 m	40 m	50 m	40 m	40 m	40 m	40 m
Image compression method	H.265+ / H.265 / H.264+ / H.264 / MJPEG	H.265+ / H.265 / H.264+ / H.264 / MJPEG	H.265+ / H.265 / H.264+ / H.264	Ultra 265 / H.265 / H.264 / MJPEG	Ultra 265 / H.265 / H.264 / MJPEG	H.265+ / H.265 / H.264+ / H.264 / MJPEG	H.265+ / H.265 / H.264+ / H.264H / MJPEG	H.265+ / H.265 / H.264+ / H.264H / MJPEG	Smart H.265+ / H.265 / Smart H.264+ / H.264 / H.264H / H.264B / MJPEG	H.265+ / H.265 / H.264+ / H.264 / MJPEG
Alarm inputs / outputs	—	1 / 1	1 / 1	—	—	—	—	—	—	—
Interface	...	...	...	...	...	...	...	...	...	...
Audio	• External microphone input - Cinch socket ,	• External microphone input • Audio output • Bi-directional audio streaming support • Audio transmission via network • Compliance with the AAC standard	• External microphone input • Audio output • Bi-directional audio streaming support • Audio transmission via network	• Microphone built-in • Audio transmission via network • Audio detection	• Microphone built-in • Audio transmission via network • Audio detection	—	• Microphone built-in • Audio transmission via network	• Microphone built-in • Audio transmission via network	• Microphone built-in • Audio transmission via network • Audio detection	• Microphone built-in • Audio transmission via network • Audio detection
RS-485 interface	...	—	—	—	—	—	—	—	—	—
Network interface	...	10/100 Base-T (RJ-45)	10/100 Base-T (RJ-45)	10/100 Base-TX (RJ-45)	10/100 Base-TX (RJ-45)	10/100 Base-T (RJ-45)	10/100 Base-T (RJ-45)	10/100 Base-T (RJ-45)	10/100 Base-T (RJ-45)	10/100 Base-T (RJ-45)
Memory card slot	—	Micro SD memory cards up to 1TB support (possible local recording)	Micro SD memory cards up to 512GB support (possible local recording)	Micro SD memory cards up to 256GB support (possible local recording)	Micro SD memory cards up to 256GB support (possible local recording)	Micro SD memory cards up to 256GB support (possible local recording)	Micro SD memory cards up to 256GB support (possible local recording)	Micro SD memory cards up to 256GB support (possible local recording)	Micro SD memory cards up to 256GB support (possible local recording)	Micro SD memory cards up to 256GB support (possible local recording)
Intelligent image analysis	• intrusion - motion detection based on human detection	...	...	...	...	...	...	...	...	...
Network protocols	...	TCP/IP, IPv4/IPv6, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, SMTP, UDP, SNMP, QoS, IEEE 802.1x	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, UDP	...	...	HTTP, HTTPS, IPv4/IPv6, TCP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QoS, UPnP, NTP, Multicast, ICMP, IGMP, PPPoE, IEEE 802.1x	IPv4/IPv6, HTTP, TCP, UDP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP SFTP DHCP DNS DDNS, NTP, Multicast, ICMP, IGMP	IPv4/IPv6, HTTP, TCP, UDP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP SFTP DHCP DNS DDNS, QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS, SAMBA, PPPoE, SNMP	...	IPv4/IPv6, HTTP, TCP, UDP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS, PPPoE, Bonjour
Max. number of on-line users	10	10	10	32	32	20	6	20	20	20
ONVIF	19.12	19.12	19.12	✓	✓	19.06	21.06	21.12	✓	21.12
Mobile phones support	Port no.: 6000 or access by a cloud (P2P) • Android: Free application BitVision • iOS (iPhone): Free application BitVision	Port no.: 80 or access by a cloud (P2P) • Android: Free application BitVision • iOS (iPhone): Free application BitVision	Port no.: 80 or access by a cloud (P2P) • Android: Free application BitVision • iOS (iPhone): Free application BitVision	Access by a cloud (P2P) • Android: Free application EZView • iOS (iPhone): Free application EZView	Access by a cloud (P2P) • Android: Free application EZView • iOS (iPhone): Free application EZView	Port no.: 37777 or access by a cloud (P2P) • Android: Free application DMSS • iOS (iPhone): Free application DMSS	Port no.: 37777 or access by a cloud (P2P) • Android: Free application DMSS • iOS (iPhone): Free application DMSS	Port no.: 37777 or access by a cloud (P2P) • Android: Free application DMSS • iOS (iPhone): Free application DMSS	Port no.: 37777 or access by a cloud (P2P) • Android: Free application DMSS • iOS (iPhone): Free application DMSS	Port no.: 37777 or access by a cloud (P2P) • Android: Free application DMSS • iOS (iPhone): Free application DMSS
Default IP address	192.168.1.168	192.168.1.168	192.168.1.168	DHCP or 192.168.1.13	DHCP or 192.168.1.13	192.168.1.108	192.168.1.108	192.168.1.108	192.168.1.108	192.168.1.108
Default admin user / password	admin / admin	admin / admin	admin / admin	admin / 123456	admin / 123456	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	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	80	80, 554	80, 554	80, 37777	80, 37777	80, 37777	80, 37777	80, 37777
PC client access ports	80	80	80	Port no.: 80 or access by a cloud (P2P) - PC: Free application EZStation	Port no.: 80 or access by a cloud (P2P) - PC: Free application EZStation	37777	37777	37777	37777	37777
Mobile client access ports	6000	80	80	80	80	37777	37777	37777	37777	37777
Port ONVIF	80	80	80	80	80	80	80	80	80	80
Mechanical protection class	...	...	...	...	...	...	...	...	...	...
WEB Server	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in, Web Viewer	Built-in	Built-in	Built-in	Built-in Built-in
RTSP URL	rtsp://user:password@ip_address:554/0 - Main stream rtsp://user:password@ip_address:554/1 - Sub stream	rtsp://user:password@ip_address:80/0 - Main stream rtsp://user:password@ip_address:80/1 - Sub stream	rtsp://user:password@ip_address:80/0 - Main stream rtsp://user:password@ip_address:80/1 - Sub stream	rtsp://192.168.1.13:554/unicast/c1/s0/live - Main stream rtsp://192.168.1.13:554/unicast/c1/s1/live - Sub stream	rtsp://192.168.1.13:554/unicast/c1/s0/live - Main stream rtsp://192.168.1.13:554/unicast/c1/s1/live - Sub stream	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	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	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	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	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
Main stream frame rate	25 fps @ 4 Mpx	max. 25 fps - 3.7 Mpx	max. 25 fps - 8 Mpx	25 fps @ 4 Mpx	25 fps @ 5 Mpx	• 20 fps @ 4 Mpx • 25 fps @ 3.7 Mpx	20 fps @ 4 Mpx 25 fps @ 3.7 Mpx	20 fps @ 5 Mpx 25 fps @ 4 Mpx	20 fps @ 5 Mpx 25 fps @ 4 Mpx	20 fps @ 8.3 Mpx 25 fps @ 4 Mpx
SAP Code	...	...	...	...	...	...	...	...	...	...
Main features	• D-WDR - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • ROI - improve the quality of selected parts of image • F-DNR (Defog) - Reduction of image noise caused by precipitation • Flicker Control - The technology eliminates the tiring eyes flickering image effect • BLC/HLC - Back Light / High Light Compensation • Possibility to change the resolution, quality and bit rate • ICR - Movable InfraRed filter • Mirror - Mirror image • Motion Detection • Privacy zones - max. 3 • Configurable: brightness, contrast, saturation • Sharpness - sharper image outlines • RESET button - on the cable	• WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • F-DNR (Defog) - Reduction of image noise caused by precipitation • ROI - improve the quality of selected parts of image • Flicker Control - The technology eliminates the tiring eyes flickering image effect • BLC - Back Light Compensation • HLC - High Light Compensation (spot) • ICR - Movable InfraRed filter • Day/Night mode - configurable • Motion Detection • Privacy zones - max. 3 • Mirror - Mirror image • Sharpness - sharper image outlines • Intelligent image analysis : intrusion, crossing the line (tripwire), motion detection based on human detection, detection of people gathering, vehicle detection	• WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • F-DNR (Defog) - Reduction of image noise caused by precipitation • ROI - improve the quality of selected parts of image • Flicker Control - The technology eliminates the tiring eyes flickering image effect • BLC - Back Light Compensation • HLC - High Light Compensation (spot) • Possibility to change the resolution, quality and bit rate • ICR - Movable InfraRed filter • Day/Night mode - configurable • Motion Detection • Privacy zones • Mirror - Mirror image • Sharpness - sharper image outlines • Intelligent image analysis : intrusion, crossing the line (tripwire), motion detection based on human detection, detection of people gathering, face detection	• WDR - 120 dB - Wide Dynamic Range • 2D-DNR, 3D-DNR - Digital Noise Reduction • F-DNR (Defog) - Reduction of image noise caused by precipitation • ROI - improve the quality of selected parts of image • 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 • NAS - Network Attached Storage support • Corridor mode - useful for monitoring corridors, entrance gates and narrow rooms • BLC/HLC - Back Light / High Light Compensation • ICR - Movable InfraRed filter • Day/night mode • Possibility to change the resolution, quality and bit rate • Motion detection with human/vehicle silhouette recognition • Privacy zones - max. 4 • Tamper signaling • Intelligent image analysis : intrusion, crossing the line (tripwire) (human silhouette)	• WDR - 120 dB - Wide Dynamic Range • 2D-DNR, 3D-DNR - Digital Noise Reduction • F-DNR (Defog) - Reduction of image noise caused by precipitation • ROI - improve the quality of selected parts of image • 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 • NAS - Network Attached Storage support • Corridor mode - useful for monitoring corridors, entrance gates and narrow rooms • BLC/HLC - Back Light / High Light Compensation • ICR - Movable InfraRed filter • Day/night mode • Possibility to change the resolution, quality and bit rate • Motion detection with human/vehicle silhouette recognition • Privacy zones - max. 4 • Tamper signaling • Intelligent image analysis : intrusion, crossing the line (tripwire) (human silhouette)	• Motozoom lens - Controlling from browser, NVR or software • WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • ROI - improve the quality of selected parts of image • ICR - Movable InfraRed filter • BLC - configurable Back Light Compensation • HLC - High Light Compensation (spot) • Day/Night mode (color/b&w/auto) • Motion Detection - max. 4 zones • Privacy zones - max. 4 • Mirror - Mirror image	• Motozoom lens • WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • ROI - improve the quality of selected parts of image • BLC - configurable Back Light Compensation • HLC - High Light Compensation (spot) • Day/night mode • ICR - Movable InfraRed filter • Auto White Balance • AGC - Automatic Gain Control • Mirror - Mirror image • Sharpness - sharper image outlines • Configurable Privacy Zones • Motion Detection • IVS analysis : crossing the line (tripwire), intrusion - classification of people and vehicles	• Motozoom lens • WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • ROI - improve the quality of selected parts of image • SSA - Smart Scene Adaptive - intelligent scene adaptation by automatically adjusting the exposure parameters to obtain a better image • BLC - configurable Back Light Compensation • HLC - High Light Compensation (spot) • Day/night mode • ICR - Movable InfraRed filter • Auto White Balance • AGC - Automatic Gain Control • Mirror - Mirror image • Sharpness - sharper image outlines • Configurable Privacy Zones • Motion Detection • IVS analysis : crossing the line (tripwire), intrusion - classification of people and vehicles	• Motozoom lens • WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • BLC/HLC - Back Light / High Light Compensation • ICR - Movable InfraRed filter • Day/night mode • AGC - Automatic Gain Control • WB - White Balance (ATW/AWB/manual/indoor/outdoor) • ROI - improve the quality of selected parts of image • Mirror - Mirror image • Possibility to change the resolution, quality and bit rate • SMD PLUS - searching for an object classified as: human, motor vehicle • Motion Detection • Configurable Privacy Zones • Cooperation with DAHUA recorders • Protections : IEEE 802.1x, IP addresses filtering, MAC addresses filtering, HTTPS, Transmission encryption • IVS analysis : crossing the line (tripwire), intrusion - classification of people and vehicles	• Motozoom lens - Controlling from browser, NVR or software • WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • ROI - improve the quality of selected parts of image • AGC - Automatic Gain Control • BLC - configurable Back Light Compensation • HLC - High Light Compensation (spot) • NAS - Network Attached Storage support • Auto White Balance • Day/Night mode (color/b&w/auto) • ICR - Movable InfraRed filter • Audio detection • Motion Detection • Configurable Privacy Zones • Mirror - Mirror image • SMD PLUS - searching for an object classified as: human, motor vehicle, non-motor vehicle • IVS analysis : crossing the line (tripwire), intrusion - classification of people and vehicles, scene changing
Power supply	12 V DC / 350 mA PoE (802.3af)	• PoE (802.3af), • 12 V DC / 700 mA	• PoE (802.3af), • 12 V DC / 460 mA	• PoE (802.3af), • 12 V DC / 630 mA	• PoE (802.3af), • 12 V DC / 630 mA	• PoE (802.3af), • 12 V DC / 580 mA	• PoE (802.3af), • 12 V DC / 640 mA	• PoE (802.3af), • 12 V DC / 640 mA	• PoE (802.3af), • 12 V DC / 520 mA	• PoE (802.3af), • 12 V DC / 530 mA
Power consumption	≤ 4.2 W	≤ 8.4 W	≤ 5.5 W	≤ 7.5 W	≤ 7.5 W	< 6.9 W	• ≤ 6.1 W @ 12 V DC • ≤ 7.3 W @ PoE	• ≤ 5.4 W @ 12 V DC • ≤ 6.4 W @ PoE	• ≤ 6.2 W @ 12 V DC • ≤ 7.4 W @ PoE	• ≤ 6.4 W @ 12 V DC • ≤ 7.6 W @ PoE
Housing	Dome - Metal	Dome - Aluminum	Dome - Aluminum	Dome - Metal	Dome - Metal	Dome - Metal	Dome - Metal	Dome - Metal	Dome - Metal	Dome - Metal
Color	White	White	White	White	White	White	White	White	White	White
"Index of Protection"	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67
Vandal-proof	—	...	...	—	—	—	—	—	—	—
Operation temp	-20 °C ... 60 °C	-20 °C ... 60 °C	-20 °C ... 60 °C	-30 °C ... 60 °C	-30 °C ... 60 °C	-30 °C ... 60 °C	-30 °C ... 60 °C	-30 °C ... 60 °C	-30 °C ... 60 °C	-30 °C ... 60 °C
Weight	0.58 kg	1.02 kg	1.03 kg	0.66 kg	0.66 kg	0.69 kg	0.69 kg	0.69 kg	0.68 kg	0.69 kg
Dimensions	Ø 119 x 98 mm	Ø 137 x 148 mm	Ø 137 x 148 mm	Ø 129 x 110 mm	Ø 129 x 110 mm	Ø 122 x 108 mm	Ø 122 x 108 mm	Ø 122 x 108 mm	Ø 122 x 108 mm	Ø 122 x 108 mm
Supported languages	Polish, English, Bulgarian, Czech, French, Spanish, Dutch, German, Portuguese, Russian, Turkish, Italian	Polish, English, Bulgarian, Czech, French, Spanish, Dutch, German, Portuguese, Russian, Turkish, Italian	Polish, English, Bulgarian, Czech, French, Spanish, Dutch, German, Portuguese, Russian, Turkish, Italian	Polish, English, Czech, French, Spanish, Dutch, German, Portuguese, Slovenian, Hungarian, Italian	Polish, English, Czech, French, Spanish, Dutch, German, Portuguese, Slovenian, Hungarian, Italian	Polish, English, Czech, French, Spanish, Dutch, German, Portuguese, Russian, Italian	Polish, English, Czech, French, Spanish, Dutch, German, Portuguese, Russian, Romanian, Turkish, Ukrainian, Hungarian, Italian	Polish, English, Czech, French, Spanish, Dutch, German, Portuguese, Russian, Romanian, Turkish, Ukrainian, Hungarian, Italian	Polish, English, Czech, French, Spanish, Dutch, German, Portuguese, Russian, Romanian, Turkish, Ukrainian, Hungarian, Italian	Polish, English, Czech, French, Spanish, Dutch, German, Portuguese, Russian, Romanian, Ukrainian, Hungarian, Italian
Manufacturer / Brand	APTI	APTI	APTI	UNIVIEW	UNIVIEW	DAHUA	DAHUA	DAHUA	DAHUA	DAHUA
Guarantee	2 years	2 years	2 years	3 years	3 years	3 years	3 years	3 years	3 years	3 years

	IP CAMERA IPC-HDW3541T-ZS-27135-S2 WizSense - 5 Mpx 2.7 ... 13.5 mm - MOTOZOOM DAHUA	IP CAMERA IPC-HDW3541T-ZS-27135-S2-BLACK WizSense - 5 Mpx 2.7 ... 13.5 mm - MOTOZOOM DAHUA	IP CAMERA IPC-HDW3841T-ZAS-27135 - 8.3 Mpx, 2.7 ... 13.5 mm - MOTOZOOM DAHUA	IP CAMERA IPC-HDW3841T-ZS-27135-S2 WizSense - 8.3 Mpx, 2.7 ... 13.5 mm - MOTOZOOM DAHUA	IP CAMERA IPC-HDW3842T-ZS-2712 WizSense - 8.3 Mpx, 2.7 ... 12 mm - MOTOZOOM DAHUA	IP VANDALPROOF CAMERA IPC-HDW5442T-ZE-2712-S3 WizMind S - 4 Mpx 2.7 ... 12 mm - MOTOZOOM DAHUA	IP VANDALPROOF CAMERA IPC-HDW5442T-ZE-2712-S3-BLACK WizMind S - 4 Mpx 2.7 ... 12 mm - MOTOZOOM DAHUA	IP VANDALPROOF CAMERA IPC-HDW5541T-ZE-27135-S3 WizMind S - 5 Mpx 2.7 ... 13.5 mm - MOTOZOOM DAHUA	IP VANDALPROOF CAMERA IPC-HDW5842T-ZE-2712-S3 WizMind S - 8.3 Mpx, 4K UHD 2.7 ... 12 mm - MOTOZOOM DAHUA	IP CAMERA DS-2CD1H43G2-IZ(2.8-12MM) - 3.7 Mpx - MOTOZOOM Hikvision
	470.41 EUR 470.41 EUR	470.41 EUR 470.41 EUR	580.05 EUR 580.05 EUR	589.63 EUR 589.63 EUR	619.31 EUR 619.31 EUR	633.44 EUR 633.44 EUR	633.44 EUR 633.44 EUR	553.48 EUR 553.48 EUR	786.17 EUR 786.17 EUR	282.96 EUR 282.96 EUR
Standard	TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP
Matrix size	5 Mpx	5 Mpx	8.3 Mpx	8.3 Mpx	8.3 Mpx	4 Mpx	4 Mpx	5 Mpx	8.3 Mpx	3.7 Mpx
White light LED illuminator range	...	...	...	...	...	...	...	...	...	...
Sensor	1/2.7 " Progressive Scan CMOS	1/2.7 " Progressive Scan CMOS	1/2.8 " Progressive Scan CMOS	1/2.8 " Progressive Scan CMOS	1/1.8 " Progressive Scan CMOS	1/1.8 " Progressive Scan CMOS	1/1.8 " Progressive Scan CMOS	1/2.7 " Progressive Scan CMOS	1/1.8 " Progressive Scan CMOS	1/3 " Progressive Scan CMOS
Resolution	2960 x 1668 - 5 Mpx , 2880 x 1620 - 4.7 Mpx , 2688 x 1520 - 4 Mpx , 2560 x 1440 - 3.7 Mpx , 2048 x 1536 - 3 Mpx , 2304 x 1296 - 3 Mpx , 1920 x 1080 - 1080p , 1280 x 960 - 1.3 Mpx 1280 x 720 - 720p	2960 x 1668 - 5 Mpx , 2880 x 1620 - 4.7 Mpx , 2688 x 1520 - 4 Mpx , 2560 x 1440 - 3.7 Mpx , 2048 x 1536 - 3 Mpx , 2304 x 1296 - 3 Mpx , 1920 x 1080 - 1080p , 1280 x 960 - 1.3 Mpx 1280 x 720 - 720p	3840 x 2160 - 8.3 Mpx, 4K UHD , 3072 x 2048 - 6.3 Mpx , 3072 x 1728 - 5.3 Mpx , 2592 x 1944 - 5 Mpx , 2688 x 1520 - 4 Mpx , 2048 x 1536 - 3.1 Mpx , 2304 x 1296 - 3 Mpx , 1920 x 1080 - 1080p 1280 x 960 - 1.3 Mpx , 1280 x 720 - 720p	3840 x 2160 - 8.3 Mpx, 4K UHD , 3072 x 2048 - 6.3 Mpx , 3072 x 1728 - 5.3 Mpx , 2592 x 1944 - 5 Mpx , 2688 x 1520 - 4 Mpx , 2560 x 1440 - 3.7 Mpx , 2048 x 1536 - 3.1 Mpx , 2304 x 1296 - 3 Mpx , 1920 x 1080 - 1080p 1280 x 960 - 1.3 Mpx , 1280 x 720 - 720p	3840 x 2160 - 8.3 Mpx, 4K UHD , 3072 x 2048 - 6.3 Mpx , 3072 x 1728 - 5.3 Mpx , 2592 x 1944 - 5 Mpx , 2688 x 1520 - 4 Mpx , 2560 x 1440 - 3.7 Mpx , 2048 x 1536 - 3.1 Mpx , 2304 x 1296 - 3 Mpx , 1920 x 1080 - 1080p 1280 x 960 - 1.3 Mpx , 1280 x 720 - 720p	2688 x 1520 - 4 Mpx , 2560 x 1440 - 3 Mpx , 2048 x 1536 - 3 Mpx , 2304 x 1296 - 3 Mpx , 1920 x 1080 - 1080p 1280 x 960 - 1.3 Mpx 1280 x 720 - 720p	2688 x 1520 - 4 Mpx , 2560 x 1440 - 3 Mpx , 2048 x 1536 - 3 Mpx , 2304 x 1296 - 3 Mpx , 1920 x 1080 - 1080p 1280 x 960 - 1.3 Mpx 1280 x 720 - 720p	2960 x 1668 - 5 Mpx , 2880 x 1620 - 4.6 Mpx , 2688 x 1520 - 4 Mpx , 2560 x 1440 - 3.7 Mpx , 2304 x 1296 - 3 Mpx , 1920 x 1080 - 1080p 1280 x 960 - 1.3 Mpx 1280 x 720 - 720p	3840 x 2160 - 8.3 Mpx, 4K UHD , 3072 x 2048 - 6.3 Mpx , 3072 x 1728 - 5.3 Mpx , 2592 x 1944 - 5 Mpx , 2688 x 1520 - 4 Mpx , 2560 x 1440 - 3 Mpx , 2048 x 1536 - 3 Mpx , 2304 x 1296 - 3 Mpx , 1920 x 1080 - 1080p 1280 x 960 - 1.3 Mpx 1280 x 720 - 720p	2560 x 1440 - 3.7 Mpx , 1920 x 1080 - 1080p 1280 x 720 - 720p
Lens	2.7 ... 13.5 mm @ F1.5 - Motozoom	2.7 ... 13.5 mm @ F1.5 - Motozoom	2.7 ... 13.5 mm - Motozoom	2.7 ... 13.5 mm - Motozoom	2.7 ... 12 mm - Motozoom	2.7 ... 12 mm - Motozoom	2.7 ... 12 mm - Motozoom	2.7 ... 13.5 mm - Motozoom	2.7 ... 12 mm - Motozoom	2.8 ... 12 mm - Motozoom
S/N ratio	...	...	...	...	...	...	...	...	...	...
View angle	• 99 ° ... 28 ° (manufacturer data) • 110 ° ... 31 ° (our tests result)	• 99 ° ... 28 ° (manufacturer data) • 107 ° ... 32 ° (our tests result)	• 113 ° ... 31 ° (manufacturer data) • 102 ° ... 31 ° (our tests result)	109 ° ... 30 °	• 109 ° ... 30 ° (manufacturer data) • 102 ° ... 46 ° (our tests result)	• 115 ° ... 47 ° (manufacturer data) • 103 ° ... 47 ° (our tests result)	• 115 ° ... 47 ° (manufacturer data) • 98 ° ... 46 ° (our tests result)	• 114 ° ... 32 ° (manufacturer data) • 105 ° ... 32 ° (our tests result)	• 113 ° ... 47 ° (manufacturer data) • 102 ° ... 46 ° (our tests result)	96 ° ... 29 °
Range of IR illumination	40 m	40 m	50 m	40 m	40 m	40 m	40 m	40 m	40 m	30 m
Image compression method	H.265+ / H.265 / H.264+ / H.264 / MJPEG	H.265+ / H.265 / H.264+ / H.264 / MJPEG	H.265+ / H.265 / H.264+ / H.264 / MJPEG	H.265+ / H.265 / H.264+ / H.264 / MJPEG	H.265+ / H.265 / H.264+ / H.264 / MJPEG	H.265+ / H.265 / H.264+ / H.264 / MJPEG	H.265+ / H.265 / H.264+ / H.264 / MJPEG	H.265+ / H.265 / H.264+ / H.264 / MJPEG	H.265+ / H.265 / H.264+ / H.264 / MJPEG	H.265+ / H.265 / H.264+ / H.264 / MJPEG
Alarm inputs / outputs	—	—	—	—	—	—	—	—	—	—
Interface	...	...	...	...	...	...	...	...	...	...
Audio	• Microphone built-in • Audio detection	• Microphone built-in • Audio detection	• Microphone built-in • Audio detection	• Microphone built-in • Audio transmission via network • Audio detection • Compliance with the AAC standard	• Microphone built-in • Audio transmission via network • Audio detection • Compliance with the AAC standard	• Microphone built-in • Audio transmission via network • Audio detection • Compliance with the AAC standard	• Microphone built-in • Audio transmission via network • Audio detection • Compliance with the AAC standard	• Microphone built-in • Audio transmission via network • Audio detection • Compliance with the AAC standard	• Microphone built-in • Audio transmission via network • Audio detection • Compliance with the AAC standard	—
RS-485 interface	—	—	—	—	—	...	...	...	...	...
Network interface	10/100 Base-T (RJ-45)	10/100 Base-T (RJ-45)	10/100 Base-T (RJ-45)	10/100 Base-T (RJ-45)	10/100 Base-T (RJ-45)	10/100 Base-T (RJ-45)	10/100 Base-T (RJ-45)	10/100 Base-T (RJ-45)	10/100 Base-T (RJ-45)	10/100 Base-T (RJ-45)
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)	Micro SD memory cards up to 256GB support (possible local recording)	Micro SD memory cards up to 256GB support (possible local recording)	Micro SD memory cards up to 256GB support (possible local recording)	Micro SD memory cards up to 512GB support (possible local recording)	Micro SD memory cards up to 512GB support (possible local recording)	Micro SD memory cards up to 512GB support (possible local recording)	Micro SD memory cards up to 512GB support (possible local recording)	Micro SD memory cards up to 256GB support (possible local recording)
Intelligent image analysis	...	...	...	...	...	...	...	...	...	...
Network protocols	IPv4/IPv6, HTTP, HTTPS, TCP, UDP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS, SAMBA, PPPoE, SNMP	...	IPv4/IPv6, HTTP, TCP, UDP, ARP, RTP, RTCP, RTSP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS, SAMBA, Bonjour, PPPoE, SNMP	IPv4/IPv6, HTTP, TCP, UDP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS, SAMBA, PPPoE, SNMP	IPv4/IPv6, HTTP, TCP, UDP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS, PPPoE, SNMP, P2P	IPv4/IPv6, HTTP, TCP, UDP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS, SAMBA, PPPoE SNMP, P2P	...	IPv4/IPv6, HTTP, TCP, UDP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS, SAMBA, PPPoE SNMP, P2P	IPv4/IPv6, HTTP, TCP, UDP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS, SAMBA, PPPoE SNMP, P2P	...
Max. number of on-line users	20	20	20	20	20	20	20	20	20	6
ONVIF	✓	21.12	20.06	21.12	22.06	22.06	22.06	22.06	22.06	✓
Mobile phones support	Port no.: 37777 or access by a cloud (P2P) • Android: Free application DMSS • iOS (iPhone): Free application DMSS	Port no.: 37777 or access by a cloud (P2P) • Android: Free application DMSS • iOS (iPhone): Free application DMSS	Port no.: 37777 or access by a cloud (P2P) • Android: Free application DMSS • iOS (iPhone): Free application DMSS	Port no.: 37777 or access by a cloud (P2P) • Android: Free application DMSS • iOS (iPhone): Free application DMSS	Port no.: 37777 or access by a cloud (P2P) • Android: Free application DMSS • iOS (iPhone): Free application DMSS	Port no.: 37777 or access by a cloud (P2P) • Android: Free application DMSS • iOS (iPhone): Free application DMSS	Port no.: 37777 or access by a cloud (P2P) • Android: Free application DMSS • iOS (iPhone): Free application DMSS	Port no.: 37777 or access by a cloud (P2P) • Android: Free application DMSS • iOS (iPhone): Free application DMSS	Port no.: 37777 or access by a cloud (P2P) • Android: Free application DMSS • iOS (iPhone): Free application DMSS	Port no.: 8000 or access by a cloud (P2P) • Android: Free application Hik-Connect • iOS: Free application Hik-Connect
Default IP address	192.168.1.108	192.168.1.108	192.168.1.108	192.168.1.108	192.168.1.108	192.168.1.108	192.168.1.108	192.168.1.108	192.168.1.108	192.168.1.64
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	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	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	admin / -
Web browser access ports	80, 37777	80, 37777	80, 37777	80, 37777	80, 37777	80, 37777	80, 37777	80, 37777	80, 37777	80
PC client access ports	37777	37777	37777	37777	37777	37777	37777	37777	37777	Port no.: 8000 or access by a cloud (P2P) - iVMS-4200 application
Mobile client access ports	37777	37777	37777	37777	37777	37777	37777	37777	37777	8000
Port ONVIF	80	80	80	80	80	80	80	80	80	80
Mechanical protection class	...	...	...	...	...	...	...	...	...	...
WEB Server	Built-in, Web Viewer	Built-in, Web Viewer	Built-in Built-in	Built-in Built-in	Built-in Built-in	Built-in	Built-in	Built-in	Built-in	Built-in
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	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	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	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	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	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	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	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	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	• Main stream : rtsp://user:password@192.168.1.64:554/Streaming/Channels/101/ • Sub stream : rtsp://user:password@192.168.1.64:554/Streaming/Channels/102/
Main stream frame rate	• 20 fps @ 5 Mpx • 25 fps @ 4 Mpx	• 20 fps @ 5 Mpx • 25 fps @ 4 Mpx	20 fps @ 8.3 Mpx, (25 fps with Ai functions off) 25 fps @ 5 Mpx	25 fps @ 8.3 Mpx	25 fps @ 8.3 Mpx	25 fps @ 4 Mpx	25 fps @ 4 Mpx	25 fps @ 5 Mpx	25 fps @ 8.3 Mpx	• 20 fps @ 3.7 Mpx • 25 fps @ 1080p
SAP Code	...	...	...	...	...	...	...	...	...	311320889
Main features	• Motozoom lens - Controlling from browser, NVR or software • WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • F-DNR (Defog) - Reduction of image noise caused by precipitation • ROI - improve the quality of selected parts of image • ICR - Movable InfraRed filter • Day/Night mode (color/b&w/auto) • BLC - configurable Back Light Compensation • HLC - High Light Compensation (spot) • WB - White Balance (ATW/AWB/manual/indoor/outdoor) • AGC - Automatic Gain Control • Mirror - Mirror image • EIS - Electronic Image Stabilization • AFSA - Anti-flicker Self-adaption - The technology eliminates the tiring eyes flickering image effect • SSA - Smart Scene Adaptive - intelligent scene adaptation by automatically adjusting the exposure parameters to obtain a better image • SMD 4.0 - searching for an object classified as: human, motor vehicle - increased detection distance and resistance to false alarms • Configurable Privacy Zones • IVS analysis : crossing the line (tripwire), intrusion, scene changing	• Motozoom lens - Controlling from browser, NVR or software • WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • EIS - Electronic Image Stabilization • F-DNR (Defog) - Reduction of image noise caused by precipitation • 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 • SSA - Smart Scene Adaptive - intelligent scene adaptation by automatically adjusting the exposure parameters to obtain a better image • SMD 4.0 - searching for an object classified as: human, motor vehicle - increased detection distance and resistance to false alarms • ROI - improve the quality of selected parts of image • ICR - Movable InfraRed filter • Day/Night mode (color/b&w/auto) • BLC - configurable Back Light Compensation • HLC - High Light Compensation (spot) • Auto White Balance • AGC - Automatic Gain Control • Image rotation and mirror • Motion Detection • Configurable Privacy Zones • AFSA - Anti-flicker Self-adaption - The technology eliminates the tiring eyes flickering image effect • IVS analysis : crossing the line (tripwire), intrusion, scene changing	• Motozoom lens - Controlling from browser, NVR or software • WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • ROI - improve the quality of selected parts of image • AGC - Automatic Gain Control • WB - White Balance • Day/Night mode (color/b&w/auto) • ICR - Movable InfraRed filter • BLC - configurable Back Light Compensation • HLC - High Light Compensation (spot) • Audio detection • Motion Detection • Configurable Privacy Zones • Mirror - Mirror image • SMD PLUS - searching for an object classified as: human, motor vehicle, non-motor vehicle • IVS analysis : crossing the line (tripwire), intrusion - classification of people and vehicles, scene changing	• Motozoom lens - Controlling from browser, NVR or software • WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • EIS - Electronic Image Stabilization • F-DNR (Defog) - Reduction of image noise caused by precipitation • ROI - improve the quality of selected parts of image • AFSA - Anti-flicker Self-adaption - The technology eliminates the tiring eyes flickering image effect • ICR - Movable InfraRed filter • Day/Night mode (color/b&w/auto) • BLC - configurable Back Light Compensation • HLC - High Light Compensation (spot) • Auto White Balance • AGC - Automatic Gain Control • Mirror - Mirror image • Motion Detection • Configurable Privacy Zones • AI SSA AI Smart Scene Adaptive - scene auto-adaptation using deep learning algorithms to detect environmental conditions such as rain, fog, backlight, low light and flickering, in order to set the optimal image parameters • SMD 4.0 - searching for an object classified as: human, motor vehicle - increased detection distance and resistance to false alarms • Smart motion detection (with recognizing people and vehicles) • IVS analysis : crossing the line (tripwire), intrusion, scene changing	• Motozoom lens - Controlling from browser, NVR or software • WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • EIS - Electronic Image Stabilization • F-DNR (Defog) - Reduction of image noise caused by precipitation • ROI - improve the quality of selected parts of image • AFSA - Anti-flicker Self-adaption - The technology eliminates the tiring eyes flickering image effect • ICR - Movable InfraRed filter • Day/Night mode (color/b&w/auto) • BLC - configurable Back Light Compensation • HLC - High Light Compensation (spot) • Auto White Balance • AGC - Automatic Gain Control • Mirror - Mirror image • Motion Detection • Configurable Privacy Zones • 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 • AI SSA AI Smart Scene Adaptive - scene auto-adaptation using deep learning algorithms to detect environmental conditions such as rain, fog, backlight, low light and flickering, in order to set the optimal image parameters • SMD 4.0 - searching for an object classified as: human, motor vehicle - increased detection distance and resistance to false alarms • Smart motion detection (with recognizing people and vehicles) • IVS analysis : crossing the line (tripwire), intrusion, scene changing	• WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • EIS - Electronic Image Stabilization • ROI - improve the quality of selected parts of image • F-DNR (Defog) - Reduction of image noise caused by precipitation • SMD 3.0 - searching for an object classified as: human, motor vehicle • AI SSA AI Smart Scene Adaptive - scene auto-adaptation using deep learning algorithms to detect environmental conditions such as rain, fog, backlight, low light and flickering, in order to set the optimal image parameters • BLC/HLC - Back Light / High Light Compensation • Possibility to change the resolution, quality and bit rate • Audio detection • Motion Detection • Configurable Privacy Zones • Vertical or horizontal image mirror • Heat map - the selection in the image by corresponding colors the areas with different traffic • IVS analysis : intrusion, crossing the line (tripwire), fast moving - classification of people and vehicles, fast moving, abandoned/missing object, loitering detection, parking detection, face detection - supports 6 types of facial attributes extraction, people counting - Supports area or queue management and the ability to configure up to 4 rules	• WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • EIS - Electronic Image Stabilization • ROI - improve the quality of selected parts of image • F-DNR (Defog) - Reduction of image noise caused by precipitation • SMD 3.0 - searching for an object classified as: human, motor vehicle • AI SSA AI Smart Scene Adaptive - scene auto-adaptation using deep learning algorithms to detect environmental conditions such as rain, fog, backlight, low light and flickering, in order to set the optimal image parameters • BLC/HLC - Back Light / High Light Compensation • Possibility to change the resolution, quality and bit rate • Audio detection • Motion Detection • Configurable Privacy Zones • Vertical or horizontal image mirror • Heat map - the selection in the image by corresponding colors the areas with different traffic • IVS analysis : intrusion, crossing the line (tripwire), fast moving - classification of people and vehicles, fast moving, abandoned/missing object, loitering detection, parking detection, face detection - supports 6 types of facial attributes extraction, people counting - Supports area or queue management and the ability to configure up to 4 rules	• WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • EIS - Electronic Image Stabilization • ROI - improve the quality of selected parts of image • F-DNR (Defog) - Reduction of image noise caused by precipitation • SMD 3.0 - searching for an object classified as: human, motor vehicle • AI SSA AI Smart Scene Adaptive - scene auto-adaptation using deep learning algorithms to detect environmental conditions such as rain, fog, backlight, low light and flickering, in order to set the optimal image parameters • BLC/HLC - Back Light / High Light Compensation • Possibility to change the resolution, quality and bit rate • Audio detection • Motion Detection • Configurable Privacy Zones • Image rotation and mirror • Heat map - the selection in the image by corresponding colors the areas with different traffic • IVS analysis : intrusion, crossing the line (tripwire), fast moving - classification of people and vehicles, fast moving, loitering detection, parking detection, face detection - supports 6 types of facial attributes extraction, people counting - Supports area or queue management and the ability to configure up to 4 rules - Statistical Reporting	• WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • EIS - Electronic Image Stabilization • ROI - improve the quality of selected parts of image • F-DNR (Defog) - Reduction of image noise caused by precipitation • SMD 3.0 - searching for an object classified as: human, motor vehicle • AI SSA AI Smart Scene Adaptive - scene auto-adaptation using deep learning algorithms to detect environmental conditions such as rain, fog, backlight, low light and flickering, in order to set the optimal image parameters • BLC/HLC - Back Light / High Light Compensation • Possibility to change the resolution, quality and bit rate • Audio detection • Motion Detection • Configurable Privacy Zones • Vertical or horizontal image mirror • Heat map - the selection in the image by corresponding colors the areas with different traffic • EPTZ - advanced target detection and tracking algorithms that trigger alarms - can simultaneously zoom and track many people and/or vehicles • IVS analysis : intrusion, crossing the line (tripwire), fast moving - classification of people and vehicles, fast moving, abandoned/missing object, loitering detection, parking detection, face detection - supports 6 types of facial attributes extraction, people counting - Supports area or queue management and the ability to configure up to 4 rules	• Motozoom lens - Controlling from browser, NVR or software • WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • ROI - improve the quality of selected parts of image • EXIR - high-efficiency infrared LEDs technology, which evenly covers the whole plan of both central vantage points of the scene as well as the corners • ICR - Movable InfraRed filter • BLC - configurable Back Light Compensation • Day/night mode • Mirror - Mirror image • Configurable Privacy Zones • Sharpness - sharper image outlines • Smart motion detection (with recognizing people and vehicles)
Power supply	• PoE (802.3af), • 12 V DC / 745 mA	• PoE (802.3af), • 12 V DC / 745 mA	• PoE (802.3af), • 12 V DC / 710 mA	• PoE (802.3af), • 12 V DC / 740 mA	• PoE (802.3af), • 12 V DC / 570 mA	• ePoE, • PoE (802.3af), • 12 V DC / 560 mA	• ePoE, • PoE (802.3af), • 12 V DC / 560 mA	• ePoE, • PoE (802.3af), • 12 V DC / 580 mA	• ePoE, • PoE (802.3af), • 12 V DC / 630 mA	• PoE (802.3af), • 12 V DC / 750 mA
Power consumption	max. 10.2 W @ PoE max. 8.9 W @ 12 V	• ≤ 10.2 W @ PoE • ≤ 8.9 W @ 12 V	• ≤ 6 W @ 12 V DC • ≤ 7.3 W @ PoE	• ≤ 8.9 W @ 12 V DC • ≤ 10.2 W @ PoE	• ≤ 6.8 W @ 12 V DC • ≤ 8 W @ PoE	• ≤ 8.2 W @ PoE, • ≤ 6.7 W @ 12 V DC	• ≤ 8.2 W @ PoE, • ≤ 6.7 W @ 12 V DC	• ≤ 8.5 W @ PoE, • ≤ 7 W @ 12 V DC	• ≤ 9 W @ PoE, • ≤ 7.5 W @ 12 V DC	• ≤ 9 W @ 12 V DC • ≤ 10 W @ PoE
Housing	Dome - Metal	Dome - Metal	Dome - Metal	Dome - Metal	Dome - Metal	Dome - Metal	Dome - Metal	Dome - Metal	Dome - Metal	Dome - Metal + Plastic
Color	White	Black	White	White	White	White	Black	White	White	White
"Index of Protection"	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP66
Vandal-proof	—	—	—	—	—	—	—	IK10	—	—
Operation temp	-30 °C ... 60 °C	-30 °C ... 60 °C	-30 °C ... 60 °C	-30 °C ... 60 °C	-30 °C ... 60 °C	-30 °C ... 60 °C	-30 °C ... 60 °C	-30 °C ... 60 °C	-30 °C ... 60 °C	-30 °C ... 60 °C
Weight	0.69 kg	0.7 kg	0.71 kg	0.71 kg	0.71 kg	0.69 kg	0.7 kg	0.7 kg	0.69 kg	0.57 kg
Dimensions	Ø 122 x 105 mm	Ø 122 x 108 mm	Ø 122 x 108 mm	Ø 122 x 108 mm	Ø 122 x 108 mm	Ø 122 x 108 mm	Ø 122 x 108 mm	Ø 122 x 108 mm	Ø 122 x 108 mm	Ø 130 x 116 mm
Supported languages	Polish, English, Czech, French, Spanish, Dutch, German, Portuguese, Russian, Romanian, Turkish, Ukrainian, Hungarian, Vietnamese, Italian	Polish, English, Czech, French, Spanish, Dutch, German, Portuguese, Russian, Romanian, Turkish, Ukrainian, Hungarian, Vietnamese, Italian	Polish, English, Czech, French, Spanish, Dutch, German, Portuguese, Russian, Italian	Polish, English, Czech, French, Spanish, Dutch, German, Portuguese, Russian, Romanian, Turkish, Ukrainian, Hungarian, Italian	Polish, English, Czech, French, Spanish, Dutch, German, Portuguese, Russian, Romanian, Turkish, Ukrainian, Hungarian, Italian	Polish, English, Czech, French, Spanish, Dutch, German, Portuguese, Russian, Romanian, Turkish, Ukrainian, Hungarian, Italian	Polish, English, Czech, French, Spanish, Dutch, German, Portuguese, Russian, Romanian, Turkish, Ukrainian, Hungarian, Italian	Polish, English, Czech, French, Spanish, Dutch, German, Portuguese, Russian, Romanian, Turkish, Ukrainian, Hungarian, Italian	Polish, English, Czech, French, Spanish, Dutch, German, Portuguese, Russian, Romanian, Turkish, Ukrainian, Hungarian, Italian	English, Ukrainian
Manufacturer / Brand	DAHUA	DAHUA	DAHUA	DAHUA	DAHUA	DAHUA	DAHUA	DAHUA	DAHUA	Hikvision
Guarantee	3 years	3 years	3 years	3 years	3 years	5 years	5 years	5 years	5 years	3 years

	IP VANDALPROOF CAMERA DS-2CD2747G2HT-LIZS(2.8-12MM)(EF) ColorVu - 4 Mpx MOTOZOOM Hikvision	IP CAMERA BCS-B-EIP45VSR3(2.0) - 5 Mpx 2.8 ... 12 mm - MOTOZOOM	IP CAMERA BCS-DMIP2501IR-V-AI - 5 Mpx 2.7 ... 13.5 mm - MOTOZOOM	IP CAMERA BCS-DMIP2801IR-V-V - 8.3 Mpx 2.7 ... 13.5 mm - MOTOZOOM	IP CAMERA BCS-L-EIP55VSR4-AI1 - 5 Mpx 2.7 ... 13.5 mm - MOTOZOOM BCS Line	IP CAMERA BCS-L-EIP55VSR4-AI1-G - 5 Mpx 2.7 ... 13.5 mm - MOTOZOOM BCS Line	IP CAMERA BCS-L-EIP58VSR4-AI1 - 8.3 Mpx, 2.7 ... 13.5 mm - MOTOZOOM BCS Line	IP CAMERA BCS-L-EIP58VSR4-AI1-G - 8.3 Mpx, 2.7 ... 13.5 mm - MOTOZOOM BCS Line	IP CAMERA BCS-L-EIP44VSR4-AI1 - 4 Mpx 2.7 ... 13.5 mm - MOTOZOOM BCS Line	IP CAMERA BCS-L-EIP48VSR4-AI1 - 8.3 Mpx 4K UHD 2.7 ... 13.5 mm - MOTOZOOM BCS Line
	628.89 EUR 628.89 EUR	151.30 EUR 151.30 EUR	232.53 EUR 232.53 EUR	201.21 EUR 201.21 EUR	440.25 EUR 440.25 EUR	440.25 EUR 440.25 EUR	261.65 EUR 261.65 EUR	550.37 EUR 550.37 EUR	342.10 EUR 342.10 EUR	418.70 EUR 418.70 EUR
Standard	TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP	IP	IP
Matrix size	4 Mpx	5 Mpx	5 Mpx	8.3 Mpx	5 Mpx	5 Mpx	8.3 Mpx	8.3 Mpx	...	...
White light LED illuminator range	40 m	...	...	...	...	...	...	...	...	...
Sensor	1/1.8 " Progressive Scan CMOS	1/2.7 " Progressive Scan CMOS	1/2.7 " Progressive Scan CMOS	1/2.7 " Progressive Scan CMOS	1/2.7 " Progressive Scan CMOS	1/2.7 " Progressive Scan CMOS	1/2.8 " Progressive Scan CMOS	1/2.8 " Progressive Scan CMOS	1/2.9 " Progressive Scan CMOS	1/2.7 " Progressive Scan CMOS
Resolution	2688 x 1520 - 4 Mpx , 1920 x 1080 - 1080p 1280 x 720 - 720p	2880 x 1620 - 5 Mpx , 2560 x 1440 - 3.7 Mpx , 2304 x 1296 - 3 Mpx , 1920 x 1080 - 1080p , 1280 x 720 - 720p	2592 x 1944 - 5 Mpx , 2688 x 1520 - 4 Mpx , 2560 x 1440 - 3.7 Mpx , 2304 x 1296 - 3 Mpx , 1920 x 1080 - 1080p , 1280 x 960 - 1.3 Mpx , 1280 x 720 - 720p	3840 x 2160 - 8.3 Mpx, 4K UHD 3072 x 2048 - 6.3 Mpx , 3072 x 1728 - 5 Mpx , 2592 x 1944 - 5 Mpx , 2688 x 1520 - 4 Mpx , 2048 x 1536 - 3.1 Mpx , 2304 x 1296 - 3 Mpx , 1920 x 1080 - 1080p , 1280 x 960 - 1.3 Mpx 1280 x 720 - 720p	2960 x 1668 - 5 Mpx , 2880 x 1620 - 4.7 Mpx , 2688 x 1520 - 4 Mpx , 2560 x 1440 - 3.7 Mpx , 2048 x 1536 - 3 Mpx , 2304 x 1296 - 3 Mpx , 1920 x 1080 - 1080p , 1280 x 960 - 1.3 Mpx 1280 x 720 - 720p	2960 x 1668 - 5 Mpx , 2880 x 1620 - 4.7 Mpx , 2688 x 1520 - 4 Mpx , 2560 x 1440 - 3.7 Mpx , 2048 x 1536 - 3 Mpx , 2304 x 1296 - 3 Mpx , 1920 x 1080 - 1080p , 1280 x 960 - 1.3 Mpx 1280 x 720 - 720p	3840 x 2160 - 8.3 Mpx, 4K UHD , 3072 x 2048 - 6.3 Mpx , 3072 x 1728 - 5.3 Mpx , 2592 x 1944 - 5 Mpx , 2688 x 1520 - 4 Mpx , 2048 x 1536 - 3.1 Mpx , 2304 x 1296 - 3 Mpx , 1920 x 1080 - 1080p 1280 x 960 - 1.3 Mpx , 1280 x 720 - 720p	3840 x 2160 - 8.3 Mpx, 4K UHD , 3072 x 2048 - 6.3 Mpx , 3072 x 1728 - 5.3 Mpx , 2592 x 1944 - 5 Mpx , 2688 x 1520 - 4 Mpx , 2048 x 1536 - 3.1 Mpx , 2304 x 1296 - 3 Mpx , 1920 x 1080 - 1080p 1280 x 960 - 1.3 Mpx , 1280 x 720 - 720p	2688 x 1520 - 4 Mpx , 2560 x 1440 - 3.7 Mpx , 2304 x 1296 - 3 Mpx , 1920 x 1080 - 1080p , 1280 x 960 - 1.3 Mpx 1280 x 720 - 720p	3840 x 2160 - 8.3 Mpx 4K UHD , 3072 x 2048 - 6 Mpx , 3072 x 1728 - 5.3 Mpx , 2592 x 1944 - 5 Mpx , 2688 x 1520 - 4 Mpx , 2048 x 1536 - 3 Mpx , 2304 x 1296 - 3 Mpx , 1920 x 1080 - 1080p , 1280 x 960 - 1.3 Mpx , 1280 x 720 - 720p
Lens	2.8 ... 12 mm Motozoom	2.8 ... 12 mm - Motozoom	2.7 ... 13.5 mm - Motozoom	2.7 ... 13.5 mm - Motozoom	2.7 ... 13.5 mm - Motozoom	2.7 ... 13.5 mm - Motozoom	2.7 ... 13.5 mm - Motozoom	2.7 ... 13.5 mm - Motozoom	2.7 ... 13.5 mm @ F1.5 - Motozoom	2.7 ... 13.5 mm @ F1.5 - Motozoom
S/N ratio	...	...	...	> 45 dB	...	...	...	...	...	...
View angle	• 115 ° ... 42 ° (manufacturer data) • 105 ... 40 ° (our tests result)	• 103 ° ... 31 ° (manufacturer data) • 102 ° ... 35 ° (our tests result)	• 100 ° ... 28 ° (manufacturer data) • 94 ° ... 28 ° (our tests result)	• 113 ° ... 31 ° (manufacturer data) • 108 ° ... 32 ° (our tests result)	• 99 ° ... 28 ° (manufacturer data) • 108 ° ... 32 ° (our tests result)	• 99 ° ... 28 ° (manufacturer data) • 110 ° ... 31 ° (our tests result)	• 109 ° ... 30 ° (manufacturer data) • 102 ° ... 31 ° (our tests result)	• 109 ° ... 30 ° (manufacturer data) • 102 ° ... 31 ° (our tests result)	104 ° ... 29 °	113 ° ... 31 °
Range of IR illumination	40 m	30 m	40 m	40 m	40 m	40 m	40 m	40 m	40 m	40 m
Image compression method	H.265+ / H.265 / H.264+ / H.264 / MJPEG	H.265+ / H.265 H.264+ / H.264 / MJPEG	H.265+ / H.265 / H.264+ / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265+ / H.265 / H.264+ / H.264 / MJPEG / AI Coding	H.265+ / H.265 / H.264+ / H.264 / MJPEG / AI Coding	H.265+ / H.265 / H.264+ / H.264 / MJPEG / AI Coding	H.265+ / H.265 / H.264+ / H.264 / MJPEG / AI Coding	H.265+ / H.265 / H.264+ / H.264 / MJPEG	H.265+ / H.265 / H.264+ / H.264 / MJPEG
Alarm inputs / outputs	1 / 1	—	—	—	—	—	—	—	—	—
Interface	...	...	...	...	...	...	...	...	10/100 Base-T (RJ-45)	10/100 Base-T (RJ-45)
Audio	• External microphone input • Audio output • Bi-directional audio streaming support • Noise suppression and echo cancellation • Compliance with the AAC standard	• Microphone built-in • Audio transmission via network • Audio detection	Microphone built-in	—	• Microphone built-in • Audio transmission via network	• Microphone built-in • Audio transmission via network	• Microphone built-in • Audio transmission via network	• Microphone built-in • Audio transmission via network	Microphone built-in	Microphone built-in
RS-485 interface	...	—	—	—	...	...	—	—	...	...
Network interface	10/100 Base-T (RJ-45)	10/100 Base-TX (RJ-45)	10/100 Base-T (RJ-45)	10/100 Base-T (RJ-45)	10/100 Base-T (RJ-45)	10/100 Base-T (RJ-45)	10/100 Base-T (RJ-45)	10/100 Base-T (RJ-45)	...	...
Memory card slot	Micro SD memory cards up to 512GB support (possible local recording)	Micro SD memory cards up to 256GB support (possible local recording)	Micro SD memory cards up to 256GB support (possible local recording)	Micro SD memory cards up to 256GB support (possible local recording)	Micro SD memory cards up to 256GB support (possible local recording)	Micro SD memory cards up to 256GB support (possible local recording)	Micro SD memory cards up to 256GB support (possible local recording)	Micro SD memory cards up to 256GB support (possible local recording)	Micro SD memory cards up to 256GB support (possible local recording)	Micro SD memory cards up to 256GB support (possible local recording)
Intelligent image analysis	...	...	...	...	...	...	...	...	• intrusion - classification of people and vehicles • crossing the line (tripwire) - classification of people and vehicles	• intrusion - classification of people and vehicles • crossing the line (tripwire) - classification of people and vehicles
Network protocols	...	IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, SSL, QoS, RTMP	IPv4/IPv6, HTTP, HTTPS, TCP, UDP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS, SAMBA, PPPoE, IEEE 802.1x, SNMP	IPv4/IPv6, HTTP, HTTPS, TCP, UDP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS, PPPoE, IEEE 802.1x, Bonjour	...	IPv4/IPv6, HTTP, TCP, UDP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS, SAMBA, PPPoE, SNMP	IPv4/IPv6, HTTP, TCP, UDP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS, SAMBA, PPPoE, SNMP	IPv4/IPv6, HTTP, TCP, UDP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS, SAMBA, PPPoE, SNMP	...	...
Max. number of on-line users	6	10	20	20	20	20	20	20	20	20
ONVIF	✓	✓	19.12	19.06	✓	✓	20.06	20.06	✓	✓
Mobile phones support	Port no.: 8000 or access by a cloud (P2P) • Android: Free application Hik-Connect • iOS: Free application Hik-Connect	Access by a cloud (P2P) • Android: Free application BCS Manager • iOS (iPhone): Free application BCS Manager	Port no.: 37777 or access by a cloud (P2P) • Android: Free application DMSS • iOS (iPhone): Free application DMSS	Port no.: 37777 or access by a cloud (P2P) • Android: Free application DMSS • iOS (iPhone): Free application DMSS	Port no.: 37777 or access by a cloud (P2P) • Android: Free application BCS Manager • iOS (iPhone): Free application BCS Manager	Port no.: 37777 or access by a cloud (P2P) • Android: Free application BCS Manager • iOS (iPhone): Free application BCS Manager	Port no.: 37777 or access by a cloud (P2P) • Android: Free application BCS Manager • iOS (iPhone): Free application BCS Manager	Port no.: 37777 or access by a cloud (P2P) • Android: Free application BCS Manager • iOS (iPhone): Free application BCS Manager	Port no.: 37777 or access by a cloud (P2P) • Android: Free application BCS Manager • iOS (iPhone): Free application BCS Manager	Port no.: 37777 or access by a cloud (P2P) • Android: Free application BCS Manager • iOS (iPhone): Free application BCS Manager
Default IP address	192.168.1.64	DHCP or 192.168.1.13	192.168.1.108	192.168.1.108	192.168.1.108	192.168.1.108	192.168.1.108	192.168.1.108	192.168.1.108	192.168.1.108
Default admin user / password	admin / - The administrator password should be set at the first start	admin / 123456	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	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	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, 554	80, 37777	80, 37777	80, 37777	80, 37777	80, 37777	80, 37777	80, 37777	80, 37777
PC client access ports	Port no.: 8000 or access by a cloud (P2P) - iVMS-4200 application	Port no.: 80 or access by a cloud (P2P)	37777	37777	37777	37777	37777	37777	37777	37777
Mobile client access ports	8000	80	37777	37777	37777	37777	37777	37777	37777	37777
Port ONVIF	80	80	80	80	80	80	80	80	80	80
Mechanical protection class	...	...	...	...	...	...	...	...	—	—
WEB Server	Built-in	Built-in	Built-in	Built-in, Web Viewer	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in
RTSP URL	• Main stream : rtsp://user:password@192.168.1.64:554/Streaming/Channels/101/ • Sub stream : rtsp://user:password@192.168.1.64:554/Streaming/Channels/102/	rtsp://192.168.1.13:554/unicast/c1/s0/live - Main stream rtsp://192.168.1.13:554/unicast/c1/s1/live - Sub stream	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	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	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	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	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	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	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	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
Main stream frame rate	25 fps @ 4 Mpx	25 fps @ 5 Mpx	25 fps @ 1080p	• 20 fps @ 4.0 Mpx • 25 fps @ 3.7 Mpx	• 20 fps @ 5 Mpx • 25 fps @ 4 Mpx	• 20 fps @ 5 Mpx • 25 fps @ 4 Mpx	20 fps @ 8.3 Mpx, (25 fps with Ai functions off) 25 fps @ 5 Mpx	20 fps @ 8.3 Mpx, (25 fps with Ai functions off) 25 fps @ 5 Mpx	25 fps @ 4 Mpx	20 fps @ 8.3 Mpx
SAP Code	311324000	...	...	...	...	...	...	...	...	...
Main features	• Smart Hybrid Light / ColorVu 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 • Motozoom lens • Possibility to turn off the LED illuminator • WDR - 130 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • ROI - improve the quality of selected parts of image • BLC - Back Light Compensation • HLC - High Light Compensation (spot) • NAS - Network Attached Storage support - allows to connect memory resources directly to the computer network • 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 • Possibility to change the resolution, quality and bit rate • Horizontal mirror image • Smart motion detection (with recognizing people and vehicles) • Configurable Privacy Zones • Sharpness - sharper image outlines • video tampering • Intelligent image analysis : crossing the line (tripwire), intrusion, detection of entry into the area / exit from the area - classification of people and vehicles, scene changing, face detection	• WDR - 120 dB - Wide Dynamic Range • 2D-DNR, 3D-DNR - Digital Noise Reduction • F-DNR (Defog) - Reduction of image noise caused by precipitation • ROI - improve the quality of selected parts of image • BLC/HLC - Back Light / High Light Compensation • ICR - Movable InfraRed filter • Day/night mode • Possibility to change the resolution, quality and bit rate • Motion Detection - max. 4 zones • Privacy zones - max. 4	• Motozoom lens - Controlling from browser, NVR or software • WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • ROI - improve the quality of selected parts of image • BLC - configurable Back Light Compensation • HLC - High Light Compensation (spot) • ICR - Movable InfraRed filter • Day/night mode - manual/auto • Motion Detection • Configurable Privacy Zones • Heat map - the selection in the image by corresponding colors the areas with different traffic • IVS analysis : crossing the line (tripwire), intrusion, fast moving - classification of people and vehicles, abandoned/missing object, loitering detection, illegal parking, detection of people gathering, people counting	• Motozoom lens - Controlling from browser, NVR or software • 3D-DNR - Digital Noise Reduction • WDR - 120 dB - Wide Dynamic Range • ICR - Movable InfraRed filter • BLC - configurable Back Light Compensation • HLC - High Light Compensation (spot) • D-ZOOM - Digital Zoom • Day/Night mode (color/b&w/auto) • Configurable Privacy Zones	• Motozoom lens - Controlling from browser, NVR or software • WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • EIS - Electronic Image Stabilization • AGC - Automatic Gain Control • Auto White Balance • ICR - Movable InfraRed filter • BLC - configurable Back Light Compensation • HLC - High Light Compensation (spot) • Day/night mode • Audio detection • Motion Detection • Configurable Privacy Zones • Image rotation and mirror • SMD 4.0 - searching for an object classified as: human, motor vehicle - increased detection distance and resistance to false alarms • IVS analysis : crossing the line (tripwire), intrusion - classification of people and vehicles, scene changing	• Motozoom lens - Controlling from browser, NVR or software • WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • AGC - Automatic Gain Control • Auto White Balance • Day/Night mode (color/b&w/auto) • ICR - Movable InfraRed filter • BLC - configurable Back Light Compensation • HLC - High Light Compensation (spot) • Audio detection • Motion Detection • Configurable Privacy Zones • Mirror - Mirror image • SMD 4.0 - searching for an object classified as: human, motor vehicle - increased detection distance and resistance to false alarms • IVS analysis : crossing the line (tripwire), intrusion - classification of people and vehicles, scene changing	• Motozoom lens - Controlling from browser, NVR or software • WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • AGC - Automatic Gain Control • Auto White Balance • Day/Night mode (color/b&w/auto) • ICR - Movable InfraRed filter • BLC - configurable Back Light Compensation • HLC - High Light Compensation (spot) • Audio detection • Motion Detection • Configurable Privacy Zones • Mirror - Mirror image • IVS analysis : crossing the line (tripwire), intrusion - classification of people and vehicles, scene changing	• Motozoom lens - Controlling from browser, NVR or software • WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • AGC - Automatic Gain Control • Auto White Balance • Day/Night mode (color/b&w/auto) • ICR - Movable InfraRed filter • BLC - configurable Back Light Compensation • HLC - High Light Compensation (spot) • Audio detection • Motion Detection • Configurable Privacy Zones • Mirror - Mirror image • IVS analysis : crossing the line (tripwire), intrusion - classification of people and vehicles, scene changing	• WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • BLC/HLC - Back Light / High Light Compensation • Possibility to change the resolution, quality and bit rate • AGC - Automatic Gain Control • AES - Auto Electronic Shutter • Image rotation and mirror • ICR - Movable InfraRed filter • Day/night mode • AWB - Auto White Balance • Motion Detection - max. 4 zones • Privacy zones - max. 4 • SMD PLUS - searching for an object classified as: human, motor vehicle • Filtering of false alarms based on the recognition of persons and vehicles • D-ZOOM - Digital Zoom : 16 x	• WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • BLC/HLC - Back Light / High Light Compensation • Possibility to change the resolution, quality and bit rate • AGC - Automatic Gain Control • AES - Auto Electronic Shutter • Image rotation and mirror • ICR - Movable InfraRed filter • Day/night mode • AWB - Auto White Balance • Motion Detection - max. 4 zones • Privacy zones - max. 4 • SMD PLUS - searching for an object classified as: human, motor vehicle • Filtering of false alarms based on the recognition of persons and vehicles • D-ZOOM - Digital Zoom : 16 x
Power supply	• PoE (802.3af), • 12 V DC / 880 mA	• PoE (802.3af), • 12 V DC / 500 mA	• ePoE, • PoE (802.3af), • 12 V DC / 640 mA	• PoE (802.3af), • 12 V DC / 640 mA	• PoE (802.3af), • 12 V DC / 850 mA	• PoE (802.3af), • 12 V DC / 850 mA	• PoE (802.3af), • 12 V DC / 740 mA	• PoE (802.3af), • 12 V DC / 850 mA	• PoE (802.3af), • 12 V DC / 500 mA	• PoE (802.3af), • 12 V DC / 635 mA
Power consumption	• ≤ 12.5 W @ PoE • ≤ 10.5 W @ 12 V DC	≤ 6 W	≤ 7.7 W	≤ 7.6 W	≤ 10.2 W	≤ 10.2 W	• ≤ 10.2 W @ PoE • ≤ 8.9 W @ 12 V DC	≤ 10.2 W	max. 6 W	max. 7.6 W
Housing	Dome, Metal	Dome - Metal	Dome - Metal	Dome - Metal	Dome - Metal	Dome - Metal	Dome - Metal	Dome - Metal	Dome - Metal	Dome - Metal
Color	White	White + Black	White	White	White	Dark graphite	White	Black	White	White
"Index of Protection"	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67
Vandal-proof	IK10	—	—	—	—	—	—	—	...	...
Operation temp	-30 °C ... 60 °C	-30 °C ... 60 °C	-30 °C ... 60 °C	-30 °C ... 60 °C	-30 °C ... 60 °C	-30 °C ... 60 °C	-30 °C ... 60 °C	-30 °C ... 60 °C	-30 °C ... 60 °C	-30 °C ... 60 °C
Weight	0.85 kg	0.66 kg	0.72 kg	0.69 kg	0.69 kg	0.69 kg	0.72 kg	0.72 kg	0.69 kg	0.7 kg
Dimensions	Ø 141 x 112 mm	Ø 129 x 110 mm	Ø 122 x 108 mm	Ø 122 x 105 mm	Ø 122 x 108 mm	Ø 122 x 108 mm	Ø 122 x 108 mm	Ø 122 x 108 mm	Ø 122 x 108 mm	Ø 122 x 108 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	Polish, English	Polish, English	Polish, English	Polish, English	Polish, English	Polish, English	Polish, English	Polish, English	Polish, English
Manufacturer / Brand	Hikvision	BCS BASIC	BCS	BCS	BCS Line	BCS Line	BCS Line	BCS Line	BCS Line	BCS Line
Guarantee	3 years	3 years	3 years	3 years	3 years	3 years	3 years	3 years	3 years	3 years