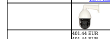
	IP SPEED DOME CAMERA OUTDOOR OMEGA-50P36-12-AI - 5 Mpx 4.6 ... 165 mm	IP SPEED DOME CAMERA OUTDOOR OMEGA-50P36-24 - 5 Mpx 4.6 ... 165 mm	IP SPEED DOME CAMERA OUTDOOR OMEGA-51P18-8P - 5 Mpx 5.35 ... 96.3 mm	IP SPEED DOME CAMERA OUTDOOR OMEGA-AI50P18-15 - 5 Mpx 5.35 ... 96.3 mm	IP SPEED DOME CAMERA OUTDOOR IPC6612SR-X25-VG LightHunter - 1080p 5 ... 125 mm UNIVIEW	IP SPEED DOME CAMERA OUTDOOR IPC6612SR-X33-VG LightHunter - 1080p 4.5 ... 148.5 mm UNIVIEW
						
	401.44 EUR 401.44 EUR	642.54 EUR 642.54 EUR	251.43 EUR 251.43 EUR	282.81 EUR 282.81 EUR	1127.56 EUR 1127.56 EUR	1604.61 EUR 1604.61 EUR
Standard	TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP
Sensor	1/2.8 " Sony CMOS IMX335	1/2.8 " Sony CMOS IMX335	1/2.8 " Progressive Scan CMOS	1/2.8 " Progressive Scan CMOS	1/2.8 " Progressive Scan CMOS	1/2.8 " Progressive Scan CMOS
Matrix size	5 Mpx	5 Mpx	5 Mpx	5 Mpx	2.1 Mpx	2.1 Mpx
Resolution	2592 x 1944 - 5 Mpx , 2560 x 1440 - 4 Mpx , 1920 x 1080 - 1080p 1280 x 720 - 720p	2592 x 1944 - 5 Mpx , 2560 x 1440 - 4 Mpx , 1920 x 1080 - 1080p 1280 x 720 - 720p	2592 x 1944 - 5 Mpx , 2560 x 1440 - 4 Mpx , 1920 x 1080 - 1080p 1280 x 720 - 720p	2592 x 1944 - 5 Mpx , 2560 x 1440 - 4 Mpx , 1920 x 1080 - 1080p 1280 x 720 - 720p	1920 x 1080 - 1080p , 1280 x 960 1.3 Mpx , 1280 x 720 720p	1920 x 1080 - 1080p , 1280 x 960 1.3 Mpx , 1280 x 720 720p
Auto IR illuminator	Adaptive adjusting of the IR illuminator power to the lens zoom and outdoor light conditions	Adaptive adjusting of the IR illuminator power to the lens zoom and outdoor light conditions	Adaptive adjusting of the IR illuminator power to the lens zoom and outdoor light conditions	Adaptive adjusting of the IR illuminator power to the lens zoom and outdoor light conditions	...	...
Scanning system	...	...	...	...	...	...
Lens	4.6 ... 165 mm	4.6 ... 165 mm	5.35 ... 96.3 mm	5.35 ... 96.3 mm	5 ... 125 mm	4.5 ... 148.5 mm
S/N ratio	...	...	...	≥ 50 dB (AGC off)	...	...
View angle	• 61 ° ... 1.9 ° (manufacturer data) • 53 ° ... 3.2 ° (our tests result)	• 61 ° ... 1.9 ° (manufacturer data) • 52 ° ... 3.1 ° (our tests result)	• 59 ° ... 3.6 ° (manufacturer data) • 48 ° ... 3.7 ° (our tests result)	• 59 ° ... 3.6 ° (manufacturer data) • 46 ° ... 3.5 ° (our tests result)	54 ° ... 2.6 °	56 ° ... 2.6 °
Optical zoom	x 36	x 36	x 18	x 18	x 25	x 33
Digital zoom	...	...	...	...	—	—
Park action	...	...	...	...	...	...
Range of IR illumination	120 m	240 m - Laser IR + LED IR	80 m	120 m	150 m	150 m
Video output	—	—	—	—	—	—
Protections	Overvoltage	Overvoltage	Overvoltage	Overvoltage	...	...
Preset rotation speed	...	...	...	...	• 180 °/s (horizontal) • 80 °/s (vertical)	• 180 °/s (horizontal) • 80 °/s (vertical)
Rotation speed (manual control)	• 1 °/s ... 200 °/s (horizontal) • 1 °/s ... 100 °/s (vertical)	• 1 °/s ... 200 °/s (horizontal) • 1 °/s ... 100 °/s (vertical)	1 °/s ... 80 °/s (horizontal) 1 °/s ... 40 °/s (vertical)	1 °/s ... 120 °/s (horizontal) 1 °/s ... 60 °/s (vertical)	• 2 °/s ... 75 °/s (horizontal) • 2 °/s ... 75 °/s (vertical)	• 2 °/s ... 75 °/s (horizontal) • 2 °/s ... 75 °/s (vertical)
Horizontal rotation range	360 ° continuous	360 ° continuous	360 ° continuous	360 ° continuous	360 ° - continuous	360 ° - continuous
Vertical rotation range	0 ° ... 93 °	0 ° ... 93 °	0 ° ... 93 °	0 ° ... 93 °	-15 ° ... 90 °	-15 ° ... 90 °
Protocols	...	...	...	...	...	...
RS-485 interface	—	—	—	—	✓	✓
Number of presets	255	255	255	255	1024	1024
Horizontal scan	✓	✓	✓	✓	✓	✓
Image compression method	H.265+ / H.265 / H.264+ / H.264	H.265+ / H.265 / H.264+ / H.264	H.265 / H.264	H.265 / H.264	H.265+ / H.265 / H.264+ / H.264 / MJPEG	Ultra H.265 / H.265 / H.264 / MJPEG
Bitrate	...	...	...	...	...	...
Alarm inputs / outputs	—	—	—	—	2 / 1	2 / 1
Audio	• Microphone built-in • Audio transmission via network	• Microphone built-in • Audio transmission via network	...	...	• External microphone input • Audio output • Bi-directional audio streaming support • Audio detection	• External microphone input • Audio output • Bi-directional audio streaming support • Audio detection
Route settings	8	8	8	3	16	16
Main stream frame rate	• 20 fps @ 5 Mpx • 25 fps @ 4 Mpx	• 20 fps @ 5 Mpx • 25 fps @ 4 Mpx	• 20 fps @ 5 Mpx • 25 fps @ 4 Mpx	• 20 fps @ 5 Mpx • 25 fps @ 4 Mpx	25 fps @ 1080p	25 fps @ 1080p
OSD menu	preset 95	preset 95	preset 95	preset 95	...	...
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)
Network protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, SMTP	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, SMTP	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, SMTP	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, SMTP	...	...
WEB Server	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in
Max. number of on-line users	...	...	...	...	32	32
ONVIF	✓	✓	✓	✓	✓	✓
Operation temp	-40 °C ... 60 °C	-40 °C ... 60 °C	-20 °C ... 60 °C	-20 °C ... 60 °C	...	...
Mobile phones support	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	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	Port 37777 • Android: Free application EZView • iOS (iPhone): Free application EZView	Port 37777 • Android: Free application EZView • iOS (iPhone): Free application EZView
Default admin user / password	admin / admin The administrator password should be set at the first start	admin / admin The administrator password should be set at the first start	admin / admin The administrator password should be set at the first start	admin / admin	admin / 123456	admin / 123456
Default IP address	192.168.1.168	192.168.1.168	192.168.1.168	192.168.1.168	DHCP or 192.168.1.13	DHCP or 192.168.1.13
Web browser access ports	80	80	80	80	80, 554	80, 554
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)
PC client access ports	...	...	...	...	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
Mobile client access ports	...	...	...	...	80	80
Port ONVIF	8999	8999	8999	8999	80	80
RTSP URL	rtsp://ip_address/1/h264major - Main stream rtsp://ip_address/1/h264minor - Sub stream	rtsp://ip_address/1/h264major - Main stream rtsp://ip_address/1/h264minor - Sub stream	rtsp://ip_address/1/h264major - Main stream rtsp://ip_address/1/h264minor - Sub stream	rtsp://ip_address/1/h264major - Main stream rtsp://ip_address/1/h264minor - 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
Vandal-proof	...	...	...	...	—	—
Main features	• Intelligent image analysis : Intelligent Object Tracking - optimal distance : 5 ... 45 m, speed: 3 ... 12 kmph, intrusion, motion detection based on human detection, video tampering • WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • ROI - improve the quality of selected parts of image • Parking action - this function enables to locate the camera to specific position automatically if operator doesn't operate the controller for some time • ICR - Movable InfraRed filter • BLC - configurable Back Light Compensation • Auto White Balance • IR illuminator optimization • Mirror - Mirror image • Privacy zones - max. 4	• Intelligent image analysis, intrusion, motion detection based on human detection, video tampering • WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • ROI - improve the quality of selected parts of image • Parking action - this function enables to locate the camera to specific position automatically if operator doesn't operate the controller for some time • ICR - Movable InfraRed filter • BLC - configurable Back Light Compensation • Auto White Balance • IR illuminator optimization • Mirror - Mirror image • Privacy zones - max. 4	• Intelligent image analysis : intrusion, motion detection based on human detection, video tampering • ROI - improve the quality of selected parts of image • Parking action - this function enables to locate the camera to specific position automatically if operator doesn't operate the controller for some time • ICR - Movable InfraRed filter • BLC - configurable Back Light Compensation • Auto White Balance • IR illuminator optimization • Mirror - Mirror image • Privacy zones - max. 4	• Intelligent image analysis : intrusion, motion detection based on human detection, video tampering • D-WDR - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • ROI - improve the quality of selected parts of image • LDC - lens distortion correction • ICR - Movable InfraRed filter • BLC - configurable Back Light Compensation • Auto White Balance • IR illuminator optimization • Mirror - Mirror image • Privacy zones - max. 3	• Intelligent Object Tracking • WDR - 120 dB - Wide Dynamic Range • 2D-DNR, 3D-DNR - Digital Noise Reduction • ROI - improve the quality of selected parts of image • F-DNR (Defog) - Reduction of image noise caused by precipitation • 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 - allows to connect memory resources directly to the computer network • BLC/HLC - Back Light / High Light Compensation • Day/night mode • ICR - Movable InfraRed filter • Auto White Balance • Configurable Privacy Zones - 24 • Motion Detection • Tamper signaling • Image rotation and mirror • Adaptive adjusting of the IR illuminator power to the lens zoom and outdoor light conditions • Overvoltage protection : 6 kV • Filtering of false alarms based on the recognition of persons and vehicles • Intelligent image analysis : crossing the line (tripwire), intrusion, detection of entry into the area / exit from the area	• Intelligent Object Tracking • WDR - 120 dB - Wide Dynamic Range • 2D-DNR, 3D-DNR - Digital Noise Reduction • ROI - improve the quality of selected parts of image • F-DNR (Defog) - Reduction of image noise caused by precipitation • 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 - allows to connect memory resources directly to the computer network • BLC/HLC - Back Light / High Light Compensation • Day/night mode • ICR - Movable InfraRed filter • Auto White Balance • Configurable Privacy Zones - 24 • Motion Detection • Tamper signaling • Image rotation and mirror • Adaptive adjusting of the IR illuminator power to the lens zoom and outdoor light conditions • Overvoltage protection : 6 kV • Filtering of false alarms based on the recognition of persons and vehicles • Intelligent image analysis : crossing the line (tripwire), intrusion, detection of entry into the area / exit from the area
Power supply	• PoE (802.3at), • 12 V DC / 3 A (power adapter included)	12 V DC / 5 A (power adapter included)	• PoE (802.3at), • 12 V DC / 3 A (power adapter included)	12 V DC / 3 A (power adapter included)	• PoE (802.3at), • 12 V DC / 3 A (power adapter included)	• PoE (802.3at), • 12 V DC / 3 A (power adapter included)
Power consumption	≤ 26 W	≤ 29 W	≤ 33 W	≤ 33 W	max. 25 W	≤ 25 W
Housing	Speed Dome, Metal	Speed Dome, Metal	Speed Dome, Metal	Speed Dome, Metal	Speed Dome, Metal + Plastic	Speed Dome, Metal + Plastic
Color	White + Black	White + Black	White + Black	White + Black	White + Black	White + Black
Operation temp	...	...	...	...	-40 °C ... 65 °C	-40 °C ... 65 °C
"Index of Protection"	IP66	IP66	IP66	IP66	IP66	IP66
Weight	2.82 kg (with bracket)	4.43 kg (with bracket)	1.5 kg (with bracket)	2.34 kg (with bracket)	3.5 kg	3.5 kg
Dimensions	204 x 395 x 327 mm (with bracket)	265 x 357 x 405 mm (with bracket)	200 x 269 x 137 mm (with bracket)	340 x 275 x 188 mm (with bracket)	Ø 220 x 370 mm	Ø 220 x 370 mm
Supported languages	Polish, English, Czech, French, Greek, Spanish, Dutch, German, Portuguese, Russian, Turkish, Italian	Polish, English, Czech, French, Greek, Spanish, Dutch, German, Portuguese, Russian, Turkish, Italian	Polish, English, Czech, French, Greek, Spanish, Dutch, German, Portuguese, Russian, Turkish, Italian	English	Polish, English, Czech, French, Spanish, Dutch, German, Portuguese, Slovenian, Hungarian, Italian	Polish, English, Czech, French, Spanish, Dutch, German, Portuguese, Slovenian, Hungarian, Italian
Manufacturer / Brand	OMEGA	OMEGA	OMEGA	OMEGA	UNIVIEW	UNIVIEW
SAP Code	...	...	...	...	...	...
Guarantee	2 years	2 years	2 years	2 years	2 years	2 years

	IP SPEED DOME CAMERA OUTDOOR IPC6624SR-X33-VF LightHunter - 4 Mpx 4.5 ... 148.5 mm UNIVIEW	IP SPEED DOME CAMERA OUTDOOR PTZ85260-HNF-PA - 1080p, 5.6 ... 336 mm DAHUA	IP SPEED DOME CAMERA OUTDOOR SD5A225XA-HNR - 1080p 5.4 ... 135 mm DAHUA	IP SPEED DOME CAMERA OUTDOOR SD5A232GB-HNR - 1080p 4.5 ... 144 mm DAHUA	IP SPEED DOME CAMERA OUTDOOR SD6CE245U-HNI - 1080p 3.95 ... 177.7 mm DAHUA	IP SPEED DOME CAMERA OUTDOOR SD8A440-HNF-PA - 4 Mpx, 5.6 ... 223 mm DAHUA
	1951.55 EUR 1951.55 EUR	8706.74 EUR 8706.74 EUR	1128.94 EUR 1128.94 EUR	1596.79 EUR 1596.79 EUR	1926.62 EUR 1926.62 EUR	4316.77 EUR 4316.77 EUR
Standard	TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP
Sensor	1/2.8 " Progressive Scan CMOS	1/1.8 " Progressive Scan CMOS	1/2.8 " Progressive Scan CMOS	1/2.8 " STARVIS™ CMOS	1/2.8 " SONY Starvis™ Back-illuminated CMOS	1/1.8 " STARVIS™ CMOS
Matrix size	4 Mpx	2.1 Mpx	2.1 Mpx	2.1 Mpx	2.1 Mpx	4 Mpx
Resolution	2688 x 1520 - 4 Mpx	1920 x 1080 - 1080p , 1280 x 960 - 1.3 Mpx , 1280 x 720 - 720p	1920 x 1080 - 1080p , 1280 x 960 - 1.3 Mpx , 1280 x 720 720p	1920 x 1080 - 1080p , 1280 x 960 1.3 Mpx , 1280 x 720 720p	1920 x 1080 - 1080p 1280 x 960 - 1.3 Mpx 1280 x 720 - 720p 704 x 576 - D1	2560 x 1440 - 4 Mpx , 1920 x 1080 - 1080p , 1280 x 960 - 1.3 Mpx , 1280 x 720 - 720p
Auto IR illuminator	...	...	...	...	...	...
Scanning system	...	Progressive	...	...	Progressive	Progressive
Lens	4.5 ... 148.5 mm	5.6 ... 336 mm	5.4 ... 135 mm	4.5 ... 144 mm	3.95 ... 177.7 mm	5.6 ... 223 mm
S/N ratio	...	...	...	...	> 55 dB (AGC off)	≥ 55 dB (AGC off)
View angle	51 ° ... 2.5 °	56.4 ° ... 1.2 ° (manufacturer data)	• 58.7 ° ... 3.1 ° (manufacturer data) • 56 ° ... 3.5 ° (our tests result)	• 58 ° ... 3 ° (manufacturer data) • 56 ° ... 3 ° (our tests result)	• 70 ° ... 1.8 ° (manufacturer data) • 64 ° ... 1.9 ° (our tests result)	61.8 ° ... 2.2 ° (manufacturer data)
Optical zoom	x 33	x 60	x 25	x 32	x 45	x 40
Digital zoom	x 16	x 16	x 16	x 16	x 16	x 16
Park action	...	...	...	...	...	...
Range of IR illumination	150 m	400 m	150 m	150 m	250 m	500 m
Video output	✓	1 Vpp / 75 Ω	—	—	1 Vpp / 75 Ω	1 Vpp / 75 Ω
Protections	...	...	...	...	...	...
Preset rotation speed	• 300 °/s (horizontal) • 240 °/s (vertical)	• 160 °/s (horizontal) • 60 °/s (vertical)	• 400 °/s (horizontal) • 300 °/s (vertical)	• 400 °/s (horizontal) • 300 °/s (vertical)	max. 300 °/s (horizontal) max. 200 °/s (vertical)	• 240 °/s (horizontal) • 120 °/s (vertical)
Rotation speed (manual control)	• 0.1 °/s ... 200 °/s (horizontal) • 0.1 °/s ... 200 °/s (vertical)	• 0.1 °/s ... 160 °/s (horizontal) • 0.1 °/s ... 60 °/s (vertical)	• 0.1 °/s ... 300 °/s (horizontal) • 0.1 °/s ... 200 °/s (vertical)	• 0.1 °/s ... 300 °/s (horizontal) • 0.1 °/s ... 200 °/s (vertical)	0.1 °/s ... 200 °/s (horizontal) 0.1 °/s ... 120 °/s (vertical)	• 0.1 °/s ... 240 °/s (horizontal) • 0.1 °/s ... 100 °/s (vertical)
Horizontal rotation range	360 ° - continuous	360 ° continuous	360 ° - continuous	360 ° - continuous	360 ° continuous	360 ° continuous
Vertical rotation range	-15 ° ... 90 °	-90 ° ... 45 °	-15 ° ... 90 °	-15 ° ... 90 °	-20 ° ... 90 °	-30 ° ... 90 °
Protocols	...	Pelco-D, Pelco-P, DH-SD Auto detection	...	...	Pelco-D, Pelco-P, DH-SD Auto detection	Pelco-D, Pelco-P, DH-SD Auto detection
RS-485 interface	✓	✓	—	—	✓	✓
Number of presets	1024	300	300	300	300	300
Horizontal scan	✓	✓	✓	✓	✓	✓
Image compression method	Ultra H.265 / H.265 / H.264 / MJPEG	H.265 / H.264H / H.264B / 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
Bitrate	...	...	...	...	448 ... 8192 kbps	...
Alarm inputs / outputs	2 / 1	7 / 2	2 / 1	2 / 1	7 / 2	7 / 2
Audio	• External microphone input • Audio output • Bi-directional audio streaming support • Audio detection	• 1 Audio input • 1 Audio output • Bi-directional audio streaming support	• External microphone input • Audio output • Bi-directional audio streaming support • Audio detection	• External microphone input • Audio output • Bi-directional audio streaming support • Audio detection • Compliance with the AAC standard	• External microphone input • Audio output • Bi-directional audio streaming support • Audio detection	• 1 Audio input • 1 Audio output • Bi-directional audio streaming support
Route settings	16	8	8	8	8	8
Main stream frame rate	25 fps @ 4 Mpx	1 ... 25 fps - 1080p	50 fps @ 1080p	25 fps @ 1080p	1 ... 50 fps - 1080p	1 ... 25 fps - 4 Mpx
OSD menu	...	...	...	...	...	...
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)
Network protocols	...	IPv4/IPv6, HTTP, HTTPS, IEEE 802.1x, QoS, FTP, SMTP, UPnP, SNMPv1/v2c/v3(MIB-2), DNS, DDNS, NTP, RTSP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE	IPv4/IPv6, HTTP, HTTPS, IEEE 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE, ARP, RTCP	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, RTCP, RTP, RTMP, PPPoE, SSL	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP, IP Filter, QoS, Bonjour, IEEE 802.1x	IPv4/IPv6, HTTP, HTTPS, IEEE 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, ARP, RTCP, RTMP
WEB Server	Built-in	Built-in, NVR compliance	Built-in	Built-in	Built-in, NVR compliance	Built-in, NVR compliance
Max. number of on-line users	32	20	20	20	20	20
ONVIF	✓	✓	✓	21.12	16.12	✓
Operation temp	...	...	...	...	...	...
Mobile phones support	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 37777 • 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 admin user / password	admin / 123456	admin / -	admin / - The administrator password should be set at the first start	admin / - The administrator password should be set at the first start	admin / admin	admin / -
Default IP address	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
Web browser access ports	80, 554	80, 37777	80, 37777	80, 37777	80, 37777	80, 37777
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 512GB 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)
PC client access ports	Port no.: 80 or access by a cloud (P2P) - PC: Free application EZStation	37777	37777	37777	37777	37777
Mobile client access ports	80	37777	37777	37777	37777	37777
Port ONVIF	80	80	80	80	80	80
RTSP URL	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
Vandal-proof	—	...	IK10	IK10	IK10	—
Main features	• Intelligent Object Tracking • WDR - 120 dB - Wide Dynamic Range • 2D-DNR, 3D-DNR - Digital Noise Reduction • ROI - improve the quality of selected parts of image • F-DNR (Defog) - Reduction of image noise caused by precipitation • 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 - allows to connect memory resources directly to the computer network • BLC/HLC - Back Light / High Light Compensation • Day/night mode • ICR - Movable InfraRed filter • Auto White Balance • Configurable Privacy Zones - 24 • Motion Detection • Tamper signaling • Image rotation and mirror • Adaptive adjusting of the IR illuminator power to the lens zoom and outdoor light conditions • Home Position - set the camera to the specified position if no operator activity for a specified dwell time • Overvoltage protection : 6 kV • Filtering of false alarms based on the recognition of persons and vehicles • Intelligent image analysis : crossing the line (tripwire), intrusion, detection of entry into the area / exit from the area, crowd gathering estimation, people counting	• WDR - 120 dB - Wide Dynamic Range • 2D-DNR, 3D-DNR - Digital Noise Reduction • F-DNR (Defog) - Reduction of image noise caused by precipitation • BLC/HLC - Back Light / High Light Compensation • EIS - Electronic Image Stabilization • ROI - improve the quality of selected parts of image • Day/Night mode (color/b&w/auto) • ICR - Movable InfraRed filter • WB - White Balance (ATW/AWB/manual/indoor/outdoor) • Motion Detection • Configurable Privacy Zones - 24 • AGC - Automatic Gain Control • Sharpness - sharper image outlines • Lens wiper remotely controlled via TCP/IP • IVS analysis : Intelligent Object Tracking, crossing the line (tripwire), intrusion, abandoned/missing object, scene changing, Face recognition, metadata support, classification of people and vehicles, Filtering of false alarms based on the recognition of persons and vehicles (tripwire, intrusion)	• Intelligent Object Tracking • WDR - 120 dB - Wide Dynamic Range • 2D-DNR, 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 • BLC/HLC - Back Light / High Light Compensation • Motion Detection • Privacy zones - max. 24 • ICR - Movable InfraRed filter • Mirror - Mirror image • Sharpness - sharper image outlines • SMD PLUS - searching for an object classified as: human, motor vehicle, non-motor vehicle • IVS analysis : crossing the line (tripwire), intrusion, abandoned/missing object, face detection, classification of people and vehicles • Filtering of false alarms based on the recognition of persons and vehicles (tripwire, intrusion)	• Intelligent Object Tracking • WDR - 120 dB - Wide Dynamic Range • 2D-DNR, 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 4.0 - searching for an object classified as: human, motor vehicle - increased detection distance and resistance to false alarms • 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 • BLC - Back Light Compensation • Motion Detection • Privacy zones - max. 24 • Day/night mode • ICR - Movable InfraRed filter • AGC - Automatic Gain Control • Auto White Balance • Sharpness - sharper image outlines • Filtering of false alarms based on the recognition of persons and vehicles (tripwire, intrusion) • Smart motion detection (with recognizing people and vehicles) • 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	• Intelligent Object Tracking • WDR - 120 dB - Wide Dynamic Range • EIS - Electronic Image Stabilization • ROI - improve the quality of selected parts of image • F-DNR (Defog) - Reduction of image noise caused by precipitation • 2D-DNR, 3D-DNR - Digital Noise Reduction • BLC/HLC - Back Light / High Light Compensation • AGC - Automatic Gain Control • ICR - Movable InfraRed filter • Motion Detection • Configurable Privacy Zones - 24 • Sharpness - sharper image outlines • Mirror - Mirror image • Day/night mode • The camera is equipped with a built-in heater with a thermostat • Heat map - the selection in the image by corresponding colors the areas with different traffic • IVS analysis, crossing the line (tripwire), intrusion, abandoned/missing object, face detection	• WDR - 140 dB - Wide Dynamic Range • 2D-DNR, 3D-DNR - Digital Noise Reduction • F-DNR (Defog) - Reduction of image noise caused by precipitation • BLC/HLC - Back Light / High Light Compensation • ROI - improve the quality of selected parts of image • Day/Night mode (color/b&w/auto) • ICR - Movable InfraRed filter • WB - White Balance (ATW/AWB/manual/indoor/outdoor) • Motion Detection • Configurable Privacy Zones - 24 • AGC - Automatic Gain Control • Sharpness - sharper image outlines • Lens wiper remotely controlled via TCP/IP • IVS analysis : Intelligent Object Tracking, crossing the line (tripwire), intrusion, abandoned/missing object, scene changing, Face recognition, metadata support, classification of people and vehicles, Filtering of false alarms based on the recognition of persons and vehicles (tripwire, intrusion)
Power supply	• PoE (802.3at), • 24 V DC / 2.5 A (power adapter included), • 24 V AC	36 V DC / 2.23 A (power adapter included)	• PoE (802.3at), • 24 V AC / 3 A (power adapter included)	• PoE (802.3at), • 24 V DC / 2.5 A (power adapter included)	• PoE (802.3at), • 24 V AC / 3 A (power adapter included)	• Hi-PoE, • 36 V DC / 2.23 A (power adapter included)
Power consumption	≤ 25 W	• 28.7 W • 61.6 W (LED IR, PTZ, Wiper)	≤ 20 W	max. 22 W	≤ 25 W	• 30 W • 48 W (LED IR)
Housing	Speed Dome, Metal	Metal	Speed Dome, Metal + Plastic	Speed Dome, Metal + Plastic	Speed Dome Metal	Speed Dome Metal
Color	White	Gray + Black	White + Black	White + Black	White	White
Operation temp	-40 °C ... 70 °C	-40 °C ... 70 °C	-40 °C ... 70 °C	-40 °C ... 70 °C	-40 °C ... 60 °C	-40 °C ... 70 °C
"Index of Protection"	IP66	IP67	IP67	IP67	IP67	IP67
Weight	5.31 kg	14.9 kg (with bracket)	5.3 kg	5.37 kg (with bracket)	6.59 kg (with bracket)	10 kg (without bracket)
Dimensions	Ø 227 x 385 mm	211 x 400 x 517 mm (with bracket)	Ø 190 x 332 mm	190 x 415 x 268 mm (with bracket)	209 x 270 x 420 mm (with bracket)	Ø 262 x 416 mm (without bracket)
Supported languages	Polish, English, Czech, French, Spanish, Dutch, German, Portuguese, Slovenian, Hungarian, Italian	English	Polish, English, Czech, French, Spanish, Dutch, German, Portuguese, Russian, Italian	Polish, English, Czech, Spanish, French, Dutch, German, Portuguese Romanian, Russian Turkish Hungarian, Italian	Polish, English, Arabic, Czech, French, Spanish, Dutch, Korean, German, Persian, Portuguese, Russian, Italian	English
Manufacturer / Brand	UNIVIEW	DAHUA	DAHUA	DAHUA	DAHUA	DAHUA
SAP Code	...	...	...	...	...	...
Guarantee	2 years	5 years	5 years	5 years	5 years	5 years

	IP SPEED DOME CAMERA OUTDOOR SD8A840-HNF-PA - 8.3 Mpx, 4K UHD, 5.6 ... 223 mm DAHUA	IP SPEED DOME CAMERA OUTDOOR DS-2DE5425IW-AE(T5) - 3.7 Mpx 4.8 ... 120 mm Hikvision	IP SPEED DOME CAMERA OUTDOOR DS-2DE7A232IW-AEB(T5) ACUSENSE - 1080p 4.8 ... 153 mm Hikvision	IP SPEED DOME CAMERA OUTDOOR DS-2DE7A825IW-AEB(T5) ACUSENSE - 8.3 Mpx, 4K UHD 5.9 ... 147.5 mm Hikvision	IP SPEED DOME CAMERA OUTDOOR DS-2SE7C124IW-AE(32X/4)(S5) ACUSENSE - 1080p 4.8 ... 153 mm Hikvision	IP SPEED DOME CAMERA OUTDOOR PTZ1A225-HNR-XA - 1080p 4.8 ... 120 mm DAHUA
	4316.77 EUR 4316.77 EUR	977.54 EUR 977.54 EUR	1345.16 EUR 1345.16 EUR	2245.21 EUR 2245.21 EUR	1718.05 EUR 1718.05 EUR	1144.73 EUR 1144.73 EUR
Standard	TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP
Sensor	1/1.8 " STARVIS™ CMOS	1/2.8 " Progressive Scan CMOS	1/2.8 " Progressive Scan CMOS	1/1.8 " Progressive Scan CMOS	• Camera PTZ : 1/2.8 " Progressive Scan CMOS • Camera 2 : 1/2.8 Progressive Scan CMOS	1/2.8 " Progressive Scan CMOS
Matrix size	8.3 Mpx	4 Mpx	2.1 Mpx	8.3 Mpx	• Camera PTZ : 2.1 Mpx • Camera 2 : 3.7 Mpx	2 Mpx
Resolution	3840 x 2160 - 8.3 Mpx, 4K UHD , 2560 x 1440 - 4 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 960 - 1.3 Mpx , 1280 x 720 - 720p	1920 x 1080 - 1080p 1280 x 960 - 1.3 Mpx 1280 x 720 - 720p	3840 x 2160 - 8.3 Mpx, 4K UHD , 2560 x 1440 - 3.7 Mpx , 1920 x 1080 - 1080p 1280 x 960 - 1.3 Mpx 1280 x 720 - 720p	2560 x 1440 - 3.7 Mpx (Camera 2) , 1920 x 1080 - 1080p 1280 x 960 - 1.3 Mpx 1280 x 720 - 720p	1920 x 1080 1920 x 1080 - 1080p 1280 x 960 - 1.3 Mpx 1280 x 720 - 720p
Auto IR illuminator	...	...	...	...	...	...
Scanning system	Progressive	Progressive	Progressive	Progressive	Progressive	Progressive
Lens	5.6 ... 223 mm	4.8 ... 120 mm	4.8 ... 153 mm	5.9 ... 147.5 mm	• Camera PTZ : 4.8 ... 153 mm F1.2 • Camera 2 : 4.0 mm F1.6	4.8 ... 120 mm
S/N ratio	≥ 55 dB (AGC off)	...	...	...	...	≥ 55 dB (AGC off)
View angle	63.9 ° ... 2.0 ° (manufacturer data)	• 55 ° ... 2.4 ° (manufacturer data) • 52 ° ... 3.2 ° (our tests result)	• 51 ° ... 2.6 ° (manufacturer data) • 53 ° ... 2.4 ° (our tests result)	• 51 ° ... 2.6 ° (manufacturer data) • 57 ° ... 3.2 ° (our tests result)	• Camera PTZ : 58 ° ... 2.1 ° (manufacturer data) 58 ° ... 2.6 ° (our tests result) • Camera 2 : 79 ° (manufacturer data) 70 ° (our tests result)	• 61 ° ... 2.8 ° (manufacturer data) • 57 ° ... 3.1 ° (our tests result)
Optical zoom	x 40	x 25	x 32	x 25	x 32	x 25
Digital zoom	x 16	x 16	x 16	x 16	x 16	x 16
Park action	...	...	...	...	...	Call the set function (tour, scan, etc.) after specified dwell time
Range of IR illumination	500 m	150 m	200 m	200 m	200 m	150 m
Video output	1 Vpp / 75 Ω	—	—	—	—	—
Protections	...	...	...	...	...	...
Preset rotation speed	• 240 °/s (horizontal) • 120 °/s (vertical)	120 °/s (horizontal) 80 °/s (vertical)	• 240 °/s (horizontal) • 200 °/s (vertical)	• 240 °/s (horizontal) • 200 °/s (vertical)	• 240 °/s (horizontal) • 200 °/s (vertical)	max. 160 °/s (horizontal) max. 110 °/s (vertical)
Rotation speed (manual control)	• 0.1 °/s ... 240 °/s (horizontal) • 0.1 °/s ... 100 °/s (vertical)	0.1 °/s ... 120 °/s (horizontal) 0.1 °/s ... 80 °/s (vertical)	0.1 °/s ... 160 °/s (horizontal) 0.1 °/s ... 120 °/s (vertical)	0.1 °/s ... 160 °/s (horizontal) 0.1 °/s ... 120 °/s (vertical)	0.1 °/s ... 160 °/s (horizontal) 0.1 °/s ... 120 °/s (vertical)	0.1 °/s ... 120 °/s (horizontal) 0.1 °/s ... 75 °/s (vertical)
Horizontal rotation range	360 ° continuous	360 ° - continuous	360 ° - continuous	360 ° - continuous	360 ° - continuous	360 ° continuous
Vertical rotation range	-30 ° ... 90 °	-15 ° ... 90 °	-15 ° ... 90 °	-15 ° ... 90 °	-15 ° ... 90 °	-90 ° ... 90 °
Protocols	Pelco-D, Pelco-P, DH-SD Auto detection	...	...	...	...	DH-SD, PELCO-D/P
RS-485 interface	✓	—	—	—	—	—
Number of presets	300	300	300	300	300	300
Horizontal scan	✓	✓	✓	✓	✓	✓
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
Bitrate	• 512 ... 16384 kbps - H.264 • 512 ... 10240 - H.265	...	...	...	...	...
Alarm inputs / outputs	7 / 2	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1
Audio	• 1 Audio input • 1 Audio output • Bi-directional audio streaming support	• External microphone input • Audio output • Bi-directional audio streaming support • Audio detection • Digital Noise Reduction	• External microphone input • Audio output • Audio detection • Speaker built-in - Alarm siren • Bi-directional audio streaming support • Digital Noise Reduction	• External microphone input • Audio output • Audio detection • Speaker built-in - Alarm siren • Bi-directional audio streaming support • Digital Noise Reduction	• External microphone input • Audio output • Audio detection • Speaker built-in - Alarm siren • Bi-directional audio streaming support • Digital Noise Reduction	• External microphone input • Audio output • Bi-directional audio streaming support • Audio detection
Route settings	8	8	4	4	4	8
Main stream frame rate	1 ... 25 fps - 8 Mpx	25 fps @ 3.7 Mpx	25 fps @ 1080p	25 fps @ 8.3 Mpx	• Camera PTZ : 25 fps @ 1080p • Camera 2 : 25 fps @ 3.7 Mpx	1 ... 50 fps - 1080p
OSD menu	...	...	...	...	...	...
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)
Network protocols	IPv4/IPv6, HTTP, HTTPS, IEEE 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, ARP, RTCP, RTMP	IPv4/IPv6, HTTP, HTTPS, IEEE 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour, WebSocket, WebSockets	IPv4/IPv6, HTTP, HTTPS, IEEE 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour	IPv4/IPv6, HTTP, HTTPS, IEEE 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour, WebSocket, WebSockets	IPv4/IPv6, HTTP, HTTPS, IEEE 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour	IPv4/IPv6, HTTP, HTTPS, IEEE 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, ARP, SNMPv1/v2c/v3(MIB-2), RTCP, RTMP
WEB Server	Built-in, NVR compliance	Built-in	Built-in	Built-in	Built-in	Built-in, NVR compliance
Max. number of on-line users	20	20	20	20	20	20
ONVIF	✓	19.12	19.12	19.12	✓	19.12
Operation temp	...	...	...	...	...	...
Mobile phones support	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	Port no.: 8000 or access by a cloud (P2P) • Android: Free application Hik-Connect • iOS: Free application Hik-Connect	Port no.: 8000 or access by a cloud (P2P) • Android: Free application Hik-Connect • iOS: Free application Hik-Connect	Port no.: 8000 or access by a cloud (P2P) • Android: Free application Hik-Connect • iOS: Free application Hik-Connect	Port no.: 37777 or access by a cloud (P2P) • Android: Free application DMSS • iOS (iPhone): Free application DMSS
Default admin user / password	admin / -	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
Default IP address	192.168.1.108	192.168.1.64	192.168.1.64	192.168.1.64	192.168.1.64	192.168.1.108
Web browser access ports	80, 37777	80	80	80	80	80, 37777
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)
PC client access ports	37777	Port no.: 8000 or access by a cloud (P2P) - iVMS-4200 application	Port no.: 8000 or access by a cloud (P2P) - iVMS-4200 application	Port no.: 8000 or access by a cloud (P2P) - iVMS-4200 application	Port no.: 8000 or access by a cloud (P2P) - iVMS-4200 application	37777
Mobile client access ports	37777	8000	8000	8000	8000	37777
Port ONVIF	80	80	80	80	80	80
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	• 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 : rtsp://user:password@192.168.1.64:554/Streaming/Channels/101/ - with authorization • Sub stream : rtsp://user:password@192.168.1.64:554/Streaming/Channels/102/ - with authorization	• 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/	• Camera PTZ - Main stream : rtsp://user:password@192.168.1.64:554/Streaming/Channels/101/ • Camera PTZ - Sub stream : rtsp://user:password@192.168.1.64:554/Streaming/Channels/102/ • Camera 2 - Main stream : rtsp://user:password@192.168.1.64:554/Streaming/Channels/201/ • Camera 2 - Sub stream : rtsp://user:password@192.168.1.64:554/Streaming/Channels/202/	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
Vandal-proof	—	...	...	IK10	...	—
Main features	• WDR - 120 dB - Wide Dynamic Range • 2D-DNR, 3D-DNR - Digital Noise Reduction • F-DNR (Defog) - Reduction of image noise caused by precipitation • BLC/HLC - Back Light / High Light Compensation • ROI - improve the quality of selected parts of image • Day/Night mode (color/b&w/auto) • ICR - Movable InfraRed filter • WB - White Balance (ATW/AWB/manual/indoor/outdoor) • Motion Detection • Configurable Privacy Zones - 24 • AGC - Automatic Gain Control • Sharpness - sharper image outlines • Lens wiper remotely controlled via TCP/IP • IVS analysis : Intelligent Object Tracking, crossing the line (tripwire), intrusion, abandoned/missing object, scene changing, Face recognition, metadata support, classification of people and vehicles, Filtering of false alarms based on the recognition of persons and vehicles (tripwire, intrusion)	• WDR - 120 dB - 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 • BLC/HLC - Back Light / High Light Compensation • Intelligent 3D Positioning System • Day/Night mode (color/b&w/auto) • ICR - Movable InfraRed filter • Auto White Balance • Privacy zones - max. 24 • Motion Detection • Configurable: brightness, contrast, saturation • Sharpness - sharper image outlines • The function of setting the exposure for a given area • The function of setting the focus for a given area • 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 • Parking action - this function enables to locate the camera to specific position automatically if operator doesn't operate the controller for some time • The camera is equipped with a built-in heater with a thermostat • Camera from AcuSense series • Intelligent image analysis : crossing the line (tripwire), intrusion, detection of entry into the area / exit from the area, classification of people and vehicles, video tampering, abandoned/missing object, face detection - advanced face capture features - detection of up to 5 faces simultaneously	• 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 • BLC/HLC - Back Light / High Light Compensation • ICR - Movable InfraRed filter • Parking action - this function enables to locate the camera to specific position automatically if operator doesn't operate the controller for some time • 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 • Privacy zones - max. 24 • Motion Detection • Sharpness - sharper image outlines • The camera is equipped with a built-in heater with a thermostat • Intelligent 3D Positioning System • Intelligent Object Tracking • Active deterrence function - Light and sound alarm • Filtering of false alarms based on the recognition of persons and vehicles • Intelligent image analysis : crossing the line (tripwire), intrusion, detection of entry into the area / exit from the area, abandoned/missing object, advanced face capture features - detection of up to 5 faces simultaneously	• 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 • BLC/HLC - Back Light / High Light Compensation • ICR - Movable InfraRed filter • Parking action - this function enables to locate the camera to specific position automatically if operator doesn't operate the controller for some time • 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 • Privacy zones - max. 24 • Motion Detection • Sharpness - sharper image outlines • The camera is equipped with a built-in heater with a thermostat • Intelligent 3D Positioning System • Intelligent Object Tracking • Active deterrence function - Light and sound alarm • Filtering of false alarms based on the recognition of persons and vehicles • Intelligent image analysis : crossing the line (tripwire), intrusion, detection of entry into the area / exit from the area, abandoned/missing object, advanced face capture features - detection of up to 5 faces simultaneously	• 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 • BLC/HLC - Back Light / High Light Compensation • ICR - Movable InfraRed filter • Day/night mode • WB - White Balance (ATW/AWB/manual/indoor/outdoor) • Sharpness - sharper image outlines • Configurable: brightness, contrast, saturation • Parking action - this function enables to locate the camera to specific position automatically if operator doesn't operate the controller for some time • 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 • Privacy zones • Motion Detection • Intelligent 3D Positioning System • Intelligent Object Tracking • Active deterrence function - Light and sound alarm • Filtering of false alarms based on the recognition of persons and vehicles • Intelligent image analysis : crossing the line (tripwire), intrusion, detection of entry into the area / exit from the area, advanced face capture features - detection of up to 5 faces simultaneously • The camera is equipped with a built-in heater with a thermostat	• Intelligent 3D Positioning System • WDR - 120 dB - Wide Dynamic Range • ROI - improve the quality of selected parts of image • EIS - Electronic Image Stabilization • F-DNR (Defog) - Reduction of image noise caused by precipitation • 2D-DNR, 3D-DNR - Digital Noise Reduction • ICR - Movable InfraRed filter • Configurable Privacy Zones - 24 • BLC/HLC - Back Light / High Light Compensation • Audio detection • Auto White Balance • Sharpness - sharper image outlines • AGC - Automatic Gain Control • Day/Night mode (color/b&w/auto) • IVS analysis : objects tracking, crossing the line (tripwire), intrusion, abandoned/missing object, face detection, scene changing • SMD PLUS - searching for an object classified as: human, motor vehicle, non-motor vehicle
Power supply	• Hi-PoE, • 36 V DC / 2.23 A (power adapter included)	• PoE (802.3at), • 24 V AC / 2.5 A (power adapter included)	• Hi-PoE, • 24 V AC (power adapter included)	• Hi-PoE, • 24 V AC (power adapter included)	• Hi-PoE, • 24 V AC / 5 A (power adapter included)	• PoE (802.3at), • 12 V DC / 4 A (power adapter included)
Power consumption	• 30 W • 48 W (LED IR)	≤ 24 W	≤ 42 W	≤ 42 W	max. 60 W	...
Housing	Speed Dome Metal	Speed Dome, Metal + Plastic	Speed Dome, Metal	Speed Dome, Metal	Speed Dome, Metal	Metal
Color	White	White + Black	White	White	White	White
Operation temp	-40 °C ... 70 °C	-30 °C ... 65 °C	-30 °C ... 65 °C	-30 °C ... 65 °C	-30 °C ... 65 °C	-40 °C ... 70 °C
"Index of Protection"	IP67	IP66	IP66	IP66	IP66	IP67
Weight	10 kg (without bracket)	• 3.7 kg (without bracket) • 4.7 kg (with bracket)	6.1 kg	6.1 kg (with bracket)	6.2 kg	3.93 kg (without bracket)
Dimensions	Ø 262 x 416 mm (without bracket)	Ø 210 x 345 mm (without bracket) 420 x 208 x 379 mm (with bracket)	• Ø 220 x 363 mm (without bracket) • Ø 220 x 393 x 453 mm (with bracket)	• Ø 220 x 363 mm (without bracket) • Ø 220 x 393 x 453 mm (with bracket)	Ø 220 x 373 mm (without bracket)	153 x 161 mm x 292 mm (without bracket)
Supported languages	English	Polish, English, Bulgarian, Croatian, Czech, Danish, Estonian, Finnish, French, Greek, Spanish, Dutch, Lithuanian, Latvian, German, Norwegian, Portuguese, Russian, Romanian, Serbian, Slovak, Slovenian, Swedish, Turkish, Ukrainian, Hungarian, Vietnamese, Italian	Polish, English, Bulgarian, Croatian, Czech, Danish, Estonian, Finnish, French, Greek, Spanish, Dutch, German, Norwegian, Portuguese, Russian, Romanian, Serbian, Slovak, Slovenian, Swedish, Turkish, Hungarian, Vietnamese, Italian	Polish, English, Bulgarian, Croatian, Czech, Danish, Estonian, Finnish, French, Greek, Spanish, Dutch, German, Norwegian, Portuguese, Russian, Romanian, Serbian, Slovak, Slovenian, Swedish, Turkish, Hungarian, Vietnamese, Italian	Polish, English, Bulgarian, Croatian, Czech, Danish, Estonian, Finnish, French, Greek, Spanish, Dutch, Lithuanian, Latvian, German, Norwegian, Portuguese, Russian, Romanian, Serbian, Slovak, Slovenian, Swedish, Turkish, Ukrainian, Hungarian, Vietnamese, Italian	Polish, English
Manufacturer / Brand	DAHUA	Hikvision	Hikvision	Hikvision	Hikvision	DAHUA
SAP Code	...	327000458	327000238	327000245	301316793	...
Guarantee	5 years	3 years	3 years	3 years	3 years	5 years

	IP SPEED DOME CAMERA OUTDOOR SD5A225GB-HNR - 1080p 4.8 ... 120 mm DAHUA	IP SPEED DOME CAMERA OUTDOOR SD5A425GA-HNR - 3.7 Mpx 5.4 ... 135 mm DAHUA	IP SPEED DOME CAMERA OUTDOOR SD5A425GB-HNR - 3.7 Mpx 5 ... 125 mm DAHUA	IP SPEED DOME CAMERA OUTDOOR SD5A432GB-HNR - 3.7 Mpx 4.8 ... 154 mm DAHUA	IP SPEED DOME CAMERA OUTDOOR SD5A445GB-HNR - 3.7 Mpx 3.96 ... 177.75 mm DAHUA
	1123.92 EUR 1123.92 EUR	2115.33 EUR 2115.33 EUR	1185.87 EUR 1185.87 EUR	1847.93 EUR 1847.93 EUR	2124.90 EUR 2124.90 EUR
Standard	TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP
Sensor	1/2.8 " STARVIS™ CMOS	1/1.8 " STARVIS™ CMOS	1/2.8 " Progressive Scan CMOS	1/2.8 " STARVIS™ CMOS	1/2.8 " STARVIS™ CMOS
Matrix size	2.1 Mpx	4 Mpx	4 Mpx	4 Mpx	4 Mpx
Resolution	1920 x 1080 - 1080p , 1280 x 960 1.3 Mpx , 1280 x 720 720p	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	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	2560 x 1440 - 3.7 Mpx , 2048 x 1536 3 Mpx , 1920 x 1080 - 1080p , 1280 x 960 1.3 Mpx , 1280 x 720 720p	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
Auto IR illuminator	...	...	...	...	...
Scanning system	...	...	...	...	...
Lens	4.8 ... 120 mm	5.4 ... 135 mm	5 ... 125 mm	4.8 ... 154 mm	3.96 ... 177.75 mm
S/N ratio	...	...	...	...	...
View angle	• 59 ° ... 2.8 ° (manufacturer data) • 56 ° ... 3.4 ° (our tests result)	• 62 ° ... 3.6 ° (manufacturer data) • 52 ° ... 3.4 ° (our tests result)	52 ° ... 3 °	• 56 ° ... 2.4 ° (manufacturer data) • 52 ° ... 2.9 ° (our tests result)	• 66 ° ... 1.9 ° (manufacturer data) • 59 ° ... 1.9 ° (our tests result)
Optical zoom	x 25	x 25	x 25	x 32	x 45
Digital zoom	x 16	x 16	x 16	x 16	x 16
Park action	...	...	...	...	...
Range of IR illumination	150 m	150 m	150 m	150 m	150 m
Video output	—	—	—	—	—
Protections	...	...	...	...	...
Preset rotation speed	• 400 °/s (horizontal) • 300 °/s (vertical)	• 400 °/s (horizontal) • 300 °/s (vertical)	• 400 °/s (horizontal) • 300 °/s (vertical)	• 400 °/s (horizontal) • 300 °/s (vertical)	• 400 °/s (horizontal) • 300 °/s (vertical)
Rotation speed (manual control)	• 0.1 °/s ... 300 °/s (horizontal) • 0.1 °/s ... 200 °/s (vertical)	• 0.1 °/s ... 300 °/s (horizontal) • 0.1 °/s ... 140 °/s (vertical)	• 0.1 °/s ... 300 °/s (horizontal) • 0.1 °/s ... 200 °/s (vertical)	• 0.1 °/s ... 300 °/s (horizontal) • 0.1 °/s ... 200 °/s (vertical)	• 0.1 °/s ... 300 °/s (horizontal) • 0.1 °/s ... 200 °/s (vertical)
Horizontal rotation range	360 ° - continuous	360 ° - continuous	360 ° - continuous	360 ° - continuous	360 ° - continuous
Vertical rotation range	-15 ° ... 90 °	-15 ° ... 90 °	-15 ° ... 90 °	-15 ° ... 90 °	-15 ° ... 90 °
Protocols	...	...	...	...	...
RS-485 interface	—	—	—	—	—
Number of presets	300	300	300	300	300
Horizontal scan	✓	✓	✓	✓	✓
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
Bitrate	...	...	...	...	...
Alarm inputs / outputs	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1
Audio	• External microphone input • Audio output • Bi-directional audio streaming support • Audio detection	• External microphone input • Audio output • Bi-directional audio streaming support • Audio detection	• External microphone input • Audio output • Bi-directional audio streaming support • Audio detection	• External microphone input • Audio output • Bi-directional audio streaming support • Audio detection	• External microphone input • Audio output • Bi-directional audio streaming support • Audio detection
Route settings	8	8	8	8	8
Main stream frame rate	25 fps @ 1080p	25 fps @ 4 Mpx	25 fps @ 1080p	25 fps @ 3.7 Mpx	25 fps @ 4 Mpx
OSD menu	...	...	...	...	...
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)
Network protocols	HTTP, HTTPS, IPv4/IPv6, RTSP, UDP, SMTP, NTP, DHCP, DNS, DDNS, IEEE 802.1x, QoS, FTP, UPnP, ICMP, SNMP, SNMPv1/v2c/v3(MIB-2), IGMP, ARP, RTCP, RTP, PPPoE, RTMP, TCP	FTP, RTMP, IPv4/IPv6, Bonjour, DNS, RTCP, PPPoE, NTP, RTP, IEEE 802.1x, HTTPS, SNMP, TCP/IP, DDNS, UPnP, NFS, ICMP, UDP, IGMP, HTTP, SSL, DHCP, SMTP, QoS, RTSP, ARP, P2P, Multicast	HTTP, HTTPS, IPv4/IPv6, RTSP, UDP, SMTP, NTP, DHCP, DNS, DDNS, IEEE 802.1x, QoS, FTP, UPnP, ICMP, SNMP, SNMPv1/v2c/v3(MIB-2), IGMP, ARP, RTCP, RTP, PPPoE, RTMP, TCP	HTTP, HTTPS, IPv4/IPv6, RTSP, UDP, SMTP, NTP, DHCP, DNS, DDNS, IEEE 802.1x, QoS, FTP, UPnP, ICMP, SNMP, SNMPv1/v2c/v3(MIB-2), IGMP, ARP, RTCP, RTP, PPPoE, RTMP, TCP	HTTP, HTTPS, TCP/IP, PPPoE, IPv4/IPv6, RTMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, DDNS, IEEE 802.1x, QoS, FTP, UPnP, ICMP, SNMP, SSL, IGMP, ARP, RTCP, RTP
WEB Server	Built-in	Built-in	Built-in	Built-in	Built-in
Max. number of on-line users	20	20	20	20	20
ONVIF	21.12	21.12	21.12	21.06	21.12
Operation temp	...	...	...	...	...
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
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
Default IP address	192.168.1.108	192.168.1.108	192.168.1.108	192.168.1.108	192.168.1.108
Web browser access ports	80, 37777	80, 37777	80, 37777	80, 37777	80, 37777
Memory card slot	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 512GB support (possible local recording)
PC client access ports	37777	37777	37777	37777	37777
Mobile client access ports	37777	37777	37777	37777	37777
Port ONVIF	80	80	80	80	80
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
Vandal-proof	IK10	IK10	IK10	IK10	IK10
Main features	• Intelligent Object Tracking • WDR - 120 dB - Wide Dynamic Range • 2D-DNR, 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 4.0 - searching for an object classified as: human, motor vehicle - increased detection distance and resistance to false alarms • 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 • BLC - Back Light Compensation • Motion Detection • Privacy zones - max. 24 • Day/night mode • ICR - Movable InfraRed filter • AGC - Automatic Gain Control • Auto White Balance • Sharpness - sharper image outlines • IVS analysis : crossing the line (tripwire), intrusion, abandoned/missing object, fast moving, parking detection, detection of people gathering, loitering detection, face detection - advanced face capture features, supports 6 types of facial attributes extraction • Filtering of false alarms based on the recognition of persons and vehicles (tripwire, intrusion)	• Intelligent Object Tracking • WDR - 120 dB - Wide Dynamic Range • 2D-DNR, 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 4.0 - searching for an object classified as: human, motor vehicle - increased detection distance and resistance to false alarms • 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 • BLC/HLC - Back Light / High Light Compensation • Motion Detection • Privacy zones - max. 24 • Day/night mode • ICR - Movable InfraRed filter • AGC - Automatic Gain Control • Auto White Balance • Sharpness - sharper image outlines • IVS analysis : crossing the line (tripwire), intrusion, abandoned/missing object, fast moving, parking detection, detection of people gathering, loitering detection, face detection - advanced face capture features, supports 6 types of facial attributes extraction • Filtering of false alarms based on the recognition of persons and vehicles (tripwire, intrusion)	• Intelligent Object Tracking • WDR - 120 dB - Wide Dynamic Range • 2D-DNR, 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 4.0 - searching for an object classified as: human, motor vehicle - increased detection distance and resistance to false alarms • 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 • BLC - Back Light Compensation • Motion Detection • Privacy zones - max. 24 • Day/night mode • ICR - Movable InfraRed filter • AGC - Automatic Gain Control • Auto White Balance • Sharpness - sharper image outlines • IVS analysis : crossing the line (tripwire), intrusion, detection of crossing a virtual fence, abandoned/missing object, fast moving, parking detection, detection of people gathering, loitering detection, face detection - advanced face capture features, supports 6 types of facial attributes extraction • Filtering of false alarms based on the recognition of persons and vehicles (tripwire, intrusion)	• Intelligent Object Tracking • WDR - 120 dB - Wide Dynamic Range • 2D-DNR, 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 4.0 - searching for an object classified as: human, motor vehicle - increased detection distance and resistance to false alarms • 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 • BLC - Back Light Compensation • Motion Detection • Privacy zones - max. 24 • Day/night mode • ICR - Movable InfraRed filter • AGC - Automatic Gain Control • Auto White Balance • Sharpness - sharper image outlines • IVS analysis : crossing the line (tripwire), intrusion, abandoned/missing object, fast moving, parking detection, detection of people gathering, loitering detection, face detection - advanced face capture features, supports 6 types of facial attributes extraction • Filtering of false alarms based on the recognition of persons and vehicles (tripwire, intrusion)	• Intelligent Object Tracking • WDR - 120 dB - Wide Dynamic Range • 2D-DNR, 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 4.0 - searching for an object classified as: human, motor vehicle - increased detection distance and resistance to false alarms • 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 • NAS - Network Attached Storage support • BLC/HLC - Back Light / High Light Compensation • Motion Detection • Privacy zones - max. 24 • Day/night mode • ICR - Movable InfraRed filter • AGC - Automatic Gain Control • Auto White Balance • Sharpness - sharper image outlines • IVS analysis : crossing the line (tripwire), intrusion, abandoned/missing object, fast moving, parking detection, detection of people gathering, loitering detection, face detection - advanced face capture features, supports 6 types of facial attributes extraction • Filtering of false alarms based on the recognition of persons and vehicles (tripwire, intrusion)
Power supply	• PoE (802.3at), • 24 V DC / 2.5 A (power adapter included)	• PoE (802.3at), • 24 V DC / 2.5 A (power adapter included)	• PoE (802.3at), • 24 V DC / 2.5 A (power adapter included)	• PoE (802.3at), • 24 V DC / 2.5 A (power adapter included)	• PoE (802.3at), • 24 V DC / 2.5 A (power adapter included)
Power consumption	max. 22 W	max. 21 W	• ≤ 12 W (typical) • 22 W (max)	max. 22 W	max. 22 W
Housing	Speed Dome, Metal + Plastic	Speed Dome, Metal + Plastic	Speed Dome, Metal + Plastic	Speed Dome, Metal + Plastic	Speed Dome, Metal + Plastic
Color	White + Black	White + Black	White + Black	White + Black	White + Black
Operation temp	-40 °C ... 70 °C	-40 °C ... 70 °C	-40 °C ... 70 °C	-40 °C ... 70 °C	-40 °C ... 70 °C
"Index of Protection"	IP67	IP67	IP67	IP67	IP67
Weight	5.32 kg (with bracket)	5.34 kg (with bracket)	5.32 kg (with bracket)	5.34 kg (with bracket)	5.34 kg (with bracket)
Dimensions	190 x 415 x 268 mm (with bracket)	190 x 415 x 268 mm (with bracket)	190 x 415 x 268 mm (with bracket)	190 x 415 x 268 mm (with bracket)	190 x 415 x 268 mm (with bracket)
Supported languages	Polish, English, Czech, Spanish, French, Dutch, German, Portuguese Romanian, Russian Turkish Hungarian, Italian	Polish, English, Czech, Spanish, French, Dutch, German, Portuguese, Russian, Romanian, Turkish, Ukrainian, Hungarian, Italian	Polish, English, Czech, Spanish, French, Dutch, German, Portuguese Romanian, Russian Turkish Hungarian, Italian	Polish, English, Czech, Spanish, French, Dutch, German, Portuguese Romanian, Russian Turkish Hungarian, Italian	Polish, English, Czech, Spanish, French, Dutch, German, Portuguese Romanian, Russian Turkish Hungarian, Italian
Manufacturer / Brand	DAHUA	DAHUA	DAHUA	DAHUA	DAHUA
SAP Code	...	...	...	...	...
Guarantee	5 years	5 years	5 years	5 years	5 years