	IP CAMERA IP CAMERA WIFI 1080P 1.0 MP 3.6mm WHITE	IP CAMERA IP CAMERA WIFI 1080P 1.0 MP 3.6mm BLACK	IP CAMERA IP CAMERA WIFI 1080P 1.0 MP 3.6mm WHITE	IP CAMERA IP CAMERA WIFI 1080P 1.0 MP 3.6 mm - METROMOS UNIVERSE	IP CAMERA IP CAMERA IP 1080P 2.0 MP 3.6 mm - METROMOS DAHUA	IP CAMERA IP CAMERA IP 1080P 2.0 MP 2.8-12 mm Motorized - METROMOS DAHUA	IP CAMERA IP CAMERA IP 1080P 2.0 MP 3.6 mm - METROMOS DAHUA	IP CAMERA IP CAMERA IP 1080P 2.0 MP 2.8-12 mm Motorized - METROMOS DAHUA	IP CAMERA IP CAMERA IP 1080P 2.0 MP 3.6 mm - METROMOS DAHUA	IP CAMERA IP CAMERA IP 1080P 2.0 MP 2.8-12 mm Motorized - METROMOS DAHUA	IP CAMERA IP CAMERA IP 1080P 2.0 MP 3.6 mm - METROMOS Lite
	236.94 EUR 236.94 EUR	235.42 EUR	236.19 EUR 236.19 EUR	243.75 EUR 247.71 EUR	236.42 EUR 236.42 EUR	416.44 EUR 485.44 EUR	284.19 EUR 284.19 EUR	416.83 EUR 486.83 EUR	212.24 EUR 212.24 EUR	189.99 EUR 189.99 EUR
Standard	IP	IP	IP	IP	FULHD	FULHD	FULHD	FULHD	FULHD	FULHD
Matrix size	-	-	-	2.1 Mpx	2.1 Mpx	2 Mpx	2.1 Mpx	2 Mpx	2.1 Mpx	2.1 Mpx
Resolution	1920 x 1080 - 1080p , 1280 x 720 - 720p	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	1920 x 1080 - 1080p , 1280 x 720 - 720p	1920 x 1080 - 1080p , 1280 x 720 - 1.2 Mpx , 1280 x 720 - 720p	1920 x 1080 - 1080p , 1280 x 720 - 1.2 Mpx , 1280 x 720 - 720p	1920 x 1080 - 1080p , 1280 x 720 - 1.2 Mpx , 1280 x 720 - 720p	1920 x 1080 - 1080p , 1280 x 720 - 1.2 Mpx , 1280 x 720 - 720p	1920 x 1080 - 1080p , 1280 x 720 - 1.2 Mpx , 1280 x 720 - 720p	1920 x 1080 - 1080p , 1280 x 720 - 1.2 Mpx , 1280 x 720 - 720p	1920 x 1080 - 1080p , 1280 x 720 - 1.2 Mpx , 1280 x 720 - 720p
Sensor	1/2.8 " Progressive Scan CMOS	1/2.8 " 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	1/2.8 " Progressive Scan CMOS	1/2.8 " Progressive Scan CMOS	1/2.8 " Progressive Scan CMOS	1/2.8 " Progressive Scan CMOS	1/2.8 " Progressive Scan CMOS
Lens	2.8 .. 12 mm - Motorzoom	2.7 .. 13.5 mm - Motorzoom	2.8 .. 12 mm - Motorzoom	2.8 .. 12 mm - Motorzoom Fixed focus	2.8 .. 12 mm - Motorzoom	2.7 .. 13.5 mm - Motorzoom	2.7 .. 13.5 mm - Motorzoom	2.7 .. 13.5 mm - Motorzoom	2.7 .. 13.5 mm Motorzoom	2.7 .. 13.5 mm Motorzoom	2.7 .. 13.5 mm - Motorzoom
View angle	108 ° .. 31 °	96 ° .. 31 °	104 ° .. 38 °	104 ° .. 35 °	108 ° .. 31 ° (manufacturer data) 107 ° .. 34 ° (our tests result)	108 ° .. 31 ° (manufacturer data) 103 ° .. 31 ° (our tests result)	103 ° .. 28 ° (manufacturer data) 103 ° .. 28 ° (our tests result)	108 ° .. 30 ° (manufacturer data) 103 ° .. 31 ° (our tests result)	108 ° .. 28 ° (manufacturer data) 104 ° .. 28 ° (our tests result)	108 ° .. 28 ° (manufacturer data) 103 ° .. 31 ° (our tests result)	108 ° .. 28 ° (manufacturer data) 103 ° .. 31 ° (our tests result)
Range of IR illumination	30 m	30 m	30 m	30 m	30 m	30 m	30 m	30 m	30 m	30 m	30 m
Hi-485 interface	-	-	-	-	-	-	-	-	-	-	-
Interface	10/100 Base-TX (RJ-45)	-	-	-	-	-	-	-	-	-	-
Image compression method	H.265+/H.265/H.264	H.265/H.265/H.264	H.265/H.265/H.264	H.265/H.265/H.264	H.264+/H.265/H.264/H.264/MJPEG	H.264+/H.265/H.264/H.264/MJPEG	H.264+/H.265/H.264/H.264/MJPEG	H.264+/H.265/H.264/H.264/MJPEG	H.264+/H.265/H.264/H.264/MJPEG	H.264+/H.265/H.264/H.264/MJPEG	H.264+/H.265/H.264/H.264/MJPEG
Audio inputs / outputs	-	1 / 1	-	-	-	-	-	-	-	-	-
Memory card slot	Micro SD memory cards up to 512GB support (possible local recording)	Micro SD card support up to 512GB	Micro SD card support up to 512GB	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)
Audio	• Microphone built-in • Audio transmission via network	• Microphone built-in • External microphone input • Audio output • Bi-directional audio streaming • Alarm • Audio transmission via network • Compliance with the AAC standard	• Microphone built-in • Audio transmission via network	• Microphone built-in • Audio transmission via network • Audio detection	-	• Microphone built-in • Audio detection • Audio transmission via network	• Microphone built-in • Audio detection • Audio transmission via network • Alarm • Compliance with the AAC standard	• Microphone built-in • Audio transmission via network • Audio detection • Compliance with the AAC standard	• Microphone built-in • Audio detection	-	• Microphone built-in • Audio transmission via network • Audio detection
Network interface	10/100 Base-TX (RJ-45)	10/100 Base-TX (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)	10/100 Base-T (RJ-45)	10/100 Base-T (RJ-45)
Access from PC	Port no.: 8000 or access by a cloud (P2P) - PC: Free application Lite - Smart Home Client Software	Port no.: 2000 or access by a cloud (P2P) - PC: Free application Lite - Smart Home Client Software	Port no.: 3000 or access by a cloud (P2P) - PC: Free application Lite - Smart Home Client Software								
Intelligent image analysis		• classification of people and vehicles • video tampering • crossing the line (tripwire) - intrusion • Audio detection • face detection	• crossing the line (tripwire) - intrusion								
Network protocols					IPv4/IPv6, HTTP, HTTPS, TCP, UDP, ARP, RTP, RTSP, SMTP, FTP, DHCP, DNS, DDNS, Multicast, ICMP, IGMP				IPv4/IPv6, HTTP, TCP, UDP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, NTP, DHCP, DNS, DDNS, Qos, UPnP, NTP, Multicast, ICMP, IGMP, NFS, SMB/CIFS, HTPs/S, IEEE 802.1x, SNMP		IPv4/IPv6, HTTP, HTTPS, TCP, UDP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, NTP, DHCP, DNS, DDNS, Qos, UPnP, NTP, Multicast, ICMP, IGMP, NFS, SMB/CIFS, HTPs/S, IEEE 802.1x, Bonjour		
ONVIF server	Built-in	Built-in	Built-in	Built-in	Built-in, Web Viewer	Built-in, Web Viewer	Built-in, Web Viewer	Built-in, Web Viewer	Built-in	Built-in	Built-in
Max. number of online users	-	-	-	6	-	-	-	-	20	20	20
ONVIF	✓	✓	✓	✓	16.12	21.06	21.06	21.06	19.06	19.06	✓
Mobile phones support	Port no.: 8000 or access by a cloud (P2P) • Android: Free application Equipcloud • iOS: Free application Equipcloud • iOS (iPhone): Free application Equipcloud Pro	Port no.: 2000 or access by a cloud (P2P) • Android: Free application Equipcloud • iOS: Free application Equipcloud • iOS (iPhone): Free application Equipcloud Pro	Port no.: 3000 or access by a cloud (P2P) • Android: Free application Equipcloud • iOS: Free application Equipcloud • iOS (iPhone): Free application Equipcloud Pro	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 Rich Blue • iOS (iPhone): Free application Rich Blue	Port no.: 37777 or access by a cloud (P2P) • Android: Free application Rich Blue • iOS (iPhone): Free application Rich Blue
Default IP address	DHCP or 192.168.1.2	192.168.1.2	DHCP or 192.168.1.2	DHCP or 192.168.1.2	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
Protections			• Overvoltage protection - 2 kV • Protection against lightning discharges - 6 kV								
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 / 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
Web browser access ports	80, 443, 3000, 3001, 3002, 23002	80, 443, 2000, 2001, 2002, 23002	80, 443, 3000, 3001, 3002, 23002	80, 554	80, 37777	80, 37777	80, 37777	80, 37777	80, 37777	80, 37777	80, 37777
PC client access ports	3000, 3001	2000, 2001	3000, 3001	Port no.: 80 or access by a cloud (P2P) - PC: Free application Equipcloud	37777	37777	37777	37777	37777	37777	37777
Mobile client access ports	3000, 3001	2000, 2002	3000, 3001	80, 554	37777	37777	37777	37777	37777	37777	37777
Port ONVIF	80	80	80	80	80	80	80	80	80	80	80
RTSP URL				rtsp://192.168.1.12:554/user=admin&password=&channel=1&stream=0.sdp?real_stream /live stream http://192.168.1.12:554/user=admin&password=&channel=1&stream=0.sdp?real_stream /sub stream	http://admin:hasło@192.168.1.108:554/cam/realmonitor?channel=1&subtype=0 /Main stream http://admin:hasło@192.168.1.108:554/cam/realmonitor?channel=1&subtype=1 /Sub stream	http://admin:hasło@192.168.1.108:554/cam/realmonitor?channel=1&subtype=0 /Main stream http://admin:hasło@192.168.1.108:554/cam/realmonitor?channel=1&subtype=1 /Sub stream	http://admin:hasło@192.168.1.108:554/cam/realmonitor?channel=1&subtype=0 /Main stream http://admin:hasło@192.168.1.108:554/cam/realmonitor?channel=1&subtype=1 /Sub stream	http://admin:hasło@192.168.1.108:554/cam/realmonitor?channel=1&subtype=0 /Main stream http://admin:hasło@192.168.1.108:554/cam/realmonitor?channel=1&subtype=1 /Sub stream	http://admin:hasło@192.168.1.108:554/cam/realmonitor?channel=1&subtype=0 /Main stream http://admin:hasło@192.168.1.108:554/cam/realmonitor?channel=1&subtype=1 /Sub stream	http://admin:hasło@192.168.1.108:554/cam/realmonitor?channel=1&subtype=0 /Main stream http://admin:hasło@192.168.1.108:554/cam/realmonitor?channel=1&subtype=1 /Sub stream	http://admin:hasło@192.168.1.108:554/cam/realmonitor?channel=1&subtype=0 /Main stream http://admin:hasło@192.168.1.108:554/cam/realmonitor?channel=1&subtype=1 /Sub stream
Mechanical protection class	-	-	-	-	-	-	-	-	-	-	-
Main stream frame rate	25 fps @ 1080p	max. 15 fps - 2.1 Mpx	25 fps @ 4 Mpx	25 fps @ 1080p	25 fps @ 1080p	25 fps @ 3840p	25 fps @ 3840p	25 fps @ 1080p	25 fps @ 1080p	25 fps @ 1080p	25 fps @ 1080p
Main features	• WDR - 120 dB - Wide Dynamic Range • 2D-DNR, 3D-DNR - Digital Noise Reduction • P-DNR (Defog) - Reduction of image noise caused by precipitation • BLC - improve the quality of selected parts of image • AWB - Automatic Network Camera adjusts colour of image to the card when the network connection with DVR is broken (network failure) and not synchronizes it • BLC/HLC - Back Light / High Light Compensation • ICR - Movable Infrabled Filter • Daylight mode • Possibility to change the resolution, quality and bit rate • Motion Detection • Privacy zones	• WDR - 120 dB - Wide Dynamic Range • 2D-DNR, 3D-DNR - Digital Noise Reduction • P-DNR (Defog) - Reduction of image noise caused by precipitation • BLC - improve the quality of selected parts of image • BLC - Back Light Compensation • HLC - High Light Compensation (spot) • Possibility to change the resolution, quality and bit rate • ICR - Movable Infrabled Filter • Privacy zones • Mirror - Mirror image • Sharpness - sharper image outlines	• WDR - 120 dB - Wide Dynamic Range • 2D-DNR, 3D-DNR - Digital Noise Reduction • P-DNR (Defog) - Reduction of image noise caused by precipitation • BLC - improve the quality of selected parts of image • AWB - Automatic Network Camera adjusts colour of image to the card when the network connection with DVR is broken (network failure) and not synchronizes it • BLC/HLC - Back Light / High Light Compensation • ICR - Movable Infrabled Filter • Daylight mode • Possibility to change the resolution, quality and bit rate • Privacy zones • Motion Detection	• WDR - 120 dB - Wide Dynamic Range • 2D-DNR, 3D-DNR - Digital Noise Reduction • P-DNR (Defog) - Reduction of image noise caused by precipitation • BLC - improve the quality of selected parts of image • AWB - Automatic Network Camera adjusts colour of image to the card when the network connection with DVR is broken (network failure) and not synchronizes it • BLC/HLC - Back Light / High Light Compensation • ICR - Movable Infrabled Filter • Daylight mode • Possibility to change the resolution, quality and bit rate • Privacy zones • Motion Detection	• Motionzone lens - Controlling from browser, NVR or software • WDR - 120 dB - Wide Dynamic Range • 2D-DNR - Digital Noise Reduction • BLC - improve the quality of selected parts of image • ICR - Movable Infrabled Filter • BLC - configurable Back Light Compensation • HLC - High Light Compensation (spot) • DayNight mode (color/black/auto) • Configurable Privacy Zones • TVS analysis - crossing the line (tripwire), intrusion - classification of people and vehicles	• Motionzone lens - Controlling from browser, NVR or software • WDR - 120 dB - Wide Dynamic Range • 2D-DNR - Digital Noise Reduction • BLC - improve the quality of selected parts of image • ICR - Movable Infrabled Filter • BLC - configurable Back Light Compensation • HLC - High Light Compensation (spot) • DayNight mode • Configurable Privacy Zones • TVS analysis - crossing the line (tripwire), intrusion - classification of people and vehicles	• Motionzone lens - Controlling from browser, NVR or software • WDR - 120 dB - Wide Dynamic Range • 2D-DNR - Digital Noise Reduction • BLC - improve the quality of selected parts of image • ICR - Movable Infrabled Filter • DayNight mode (color/black/auto) • Motion Detection • Configurable Privacy Zones • Mirror - Mirror image • Audio detection • Possibility to set the selection in the image by corresponding colors the areas with different traffic • TVS analysis - crossing the line (tripwire), intrusion, fast moving - classification of people and vehicles, abandoned/missing object, illegal parking, detection of people gathering, loitering detection, face detection - supports 6 rules, 4 independent rules, people counting - detection and classification of 8 independent rules • SMD 3.0 - searching for an object classified as: human, motor vehicle	• Motionzone lens - Controlling from browser, NVR or software • WDR - 120 dB - Wide Dynamic Range • 2D-DNR - Digital Noise Reduction • ICR - Electronic Image Stabilization • D-DNR (Defog) - Reduction of image noise caused by precipitation • BLC - improve the quality of selected parts of image • BLC - configurable Back Light Compensation • HLC - High Light Compensation (spot) • AGC - Automatic Gain Control • ICR - Movable Infrabled Filter • DayNight mode (color/black/auto) • Motion Detection • Configurable Privacy Zones • Mirror - Mirror image • Audio detection • Possibility to set the selection in the image by corresponding colors the areas with different traffic • TVS analysis - crossing the line (tripwire), intrusion, fast moving - classification of people gathering, loitering detection, face detection - supports 6 rules, 4 independent rules, people counting - detection and classification of 8 independent rules • SMD 3.0 - searching for an object classified as: human, motor vehicle	• Motionzone lens - Controlling from browser, NVR or software • WDR - 120 dB - Wide Dynamic Range • 2D-DNR - Digital Noise Reduction • 3D-DNR - Digital Noise Reduction • BLC - improve the quality of selected parts of image • ICR - Movable Infrabled Filter • BLC - configurable Back Light Compensation • HLC - High Light Compensation (spot) • Auto White Balancer • ICR - Movable Infrabled Filter • BLC - configurable Back Light Compensation • HLC - High Light Compensation (spot) • Mirror • Motion Detection • Configurable Privacy Zones • Image rotation and mirror • TVS analysis - crossing the line (tripwire), intrusion - classification of people and vehicles	• Motionzone lens - Controlling from browser, NVR or software • WDR - 120 dB - Wide Dynamic Range • 2D-DNR - Digital Noise Reduction • 3D-DNR - Digital Noise Reduction • BLC - improve the quality of selected parts of image • Auto White Balancer • ICR - Movable Infrabled Filter • BLC - configurable Back Light Compensation • HLC - High Light Compensation (spot) • Mirror • Motion Detection • Configurable Privacy Zones • Image rotation and mirror • TVS analysis - crossing the line (tripwire), intrusion - classification of people and vehicles
Power supply	• PoE (802.3af) • 12 V DC / 630 mA	• PoE (802.3af) • 12 V DC / 660 mA	• PoE (802.3af) • 12 V DC / 630 mA	• PoE (802.3af) • 12 V DC / 630 mA	• PoE (802.3af) • 12 V DC / 620 mA	• PoE (802.3af) • 12 V DC / 520 mA	• PoE (802.3af) • 12 V DC / 520 mA	• PoE (802.3af) • 12 V DC / 650 mA	• 48vAC • PoE (802.3af) • 12 V DC / 285 mA	• PoE (802.3af) • 12 V DC / 530 mA	• PoE (802.3af) • 12 V DC / 530 mA
Power consumption	4.7 W	4.8 W	4.7 W	4.7 W	4.4 W @ PoE 5 W @ 12 V DC	4.4 W @ PoE 4.6 W @ PoE	4.4 W @ 12 V DC 4.6 W @ PoE	7.8 W	4.6 W	4.4 W	4.4 W @ 12 V DC 4.6 W @ PoE
Housing	Zinc - Plastic	Zinc - Metal	Zinc - Plastic	Zinc - Metal	Zinc - Metal	Zinc - Metal	Zinc - Metal	Zinc - Metal	Zinc - Metal	Zinc - Metal	Zinc - Metal
Color	White	White	White	White	White	White	White	White	White	White	White
Index of Protection*	IP66	IP66	IP66	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67
Vandal-proof	-	-	-	-	-	-	-	-	-	-	-
Operation temp.	-10 °C .. 60 °C	-10 °C .. 60 °C	-30 °C .. 60 °C	-30 °C .. 60 °C	-10 °C .. 60 °C	-10 °C .. 60 °C	-10 °C .. 60 °C	-10 °C .. 60 °C	-10 °C .. 60 °C	-10 °C .. 60 °C	-10 °C .. 60 °C
Weight	0.4 kg	0.65 kg	0.4 kg	0.66 kg	0.65 kg	0.69 kg	0.69 kg	0.69 kg	0.75 kg	0.69 kg	0.65 kg
Dimensions	Ø 120 x 96 mm	Ø 122 x 158 mm	Ø 120 x 96 mm	Ø 118 x 114 mm	Ø 122 x 158 mm	Ø 122 x 158 mm	Ø 122 x 158 mm	Ø 122 x 158 mm	Ø 122 x 158 mm	Ø 122 x 158 mm	Ø 122 x 158 mm
Supported languages	Polish, English, Albanian, Arabic, Bulgarian, Czech, Danish, Spanish, Korean, Russian, French, Dutch, Hebrew, German, Portuguese, Russian, Thai, Turkish, Ukrainian, Vietnamese, Portuguese, Italian	Polish, English, Albanian, Arabic, Bulgarian, Czech, Danish, Spanish, Korean, Russian, French, Dutch, Hebrew, German, Portuguese, Russian, Thai, Turkish, Ukrainian, Vietnamese, Portuguese, Italian	Polish, English, Albanian, Arabic, Bulgarian, Czech, Danish, Spanish, Korean, Russian, French, Dutch, Hebrew, German, Portuguese, Russian, Thai, Turkish, Ukrainian, Vietnamese, Portuguese, Italian	Polish, English, Czech, French, Spanish, Dutch, German, Portuguese, Slovenian, Hungarian, Italian	Polish, English, Czech, French, Spanish, Dutch, German, Portuguese, Russian, Italian	Polish, English	Polish, English, Czech, French, Spanish, Dutch, German, Portuguese, Russian, Italian	Polish, English, Czech, French, Spanish, Dutch, German, Portuguese, Russian, Italian	Polish, English, Czech, Russian	Polish, English, Czech, Russian	Polish, English
Manufacturer / Brand	TANDY	TANDY	TANDY	SNOWW	DAHUA	DAHUA	DAHUA	DAHUA	DAHUA	ICS	ICS Line
Guarantee	2 years	2 years	2 years	2 years	2 years	2 years	2 years	2 years	2 years	2 years	2 years

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