






	IP CAMERA APTL41503C3-28W-L Full-Color - 5 Mpx 2.8 mm	IP CAMERA TC-C34WP SPEC.W/E/Y/2.8MM/V4.0 Color Maker 2.8 mm HANDY	IP CAMERA IPC-HFW2449T-AS-IL-0360R WizSense - 4 Mpx 3.6 mm DAHUA	IP CAMERA IPC-HFW2449T-AS-IL-0360R-BLACK WizSense - 4 Mpx 3.6 mm DAHUA	WLAN USB ADAPTER WIFI W5 150 Mbps @ 2.4 GHz OPTICUM
					
	270.40 PLN 270.40 PLN	795.00 PLN 795.00 PLN	1193.00 PLN 1193.00 PLN	1158.00 PLN 1158.00 PLN	24.19 PLN 24.19 PLN
Standard	TCP/IP	IP	TCP/IP	TCP/IP	...
Matrix size	5 Mpx	...	4 Mpx	4 Mpx	...
Supported standards	...	...	...	...	IEEE 802.11 b/g/n @ 2.4 GHz
Supported transmission speeds	...	...	...	...	150 Mbps @ 2.4 GHz
Operation modes	...	...	...	...	Wireless network adapter
Antenna type	...	...	...	...	Omnidirectional antenna 5 dBi - Outdoor, Integrated
Frequency range	...	...	...	...	2.4120 GHz ... 2.4835 GHz
Sensor	1/2.7" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS	1/2.9" Progressive Scan CMOS	1/2.9" Progressive Scan CMOS	...
Resolution	2880 x 1620 - 5 Mpx, 2592 x 1536 - 4 Mpx, 2560 x 1440 - 3.7 Mpx, 1920 x 1080 - 1080p, 1280 x 720 - 720p	2592 x 1520 - 4 Mpx, 2560 x 1440 - 3.7 Mpx, 2304 x 1296 - 3 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 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	...
Scanning system	...	...	Progressive	Progressive	...
Lens	2.8 mm	2.8 mm	3.6 mm	3.6 mm	...
View angle	• 95° (manufacturer data) • 110° (our tests result)	• 100° (manufacturer data) • 90° (our tests result)	• 84° (manufacturer data) • 81° (our tests result)	• 84° (manufacturer data) • 81° (our tests result)	...
Range of IR illumination	...	...	60 m	60 m	...
White light LED illuminator range	25 m	15 m	50 m	50 m	...
Transmitter power	...	...	...	...	• 17 dBm ± 1.5 @ IEEE 802.11b, • 14 dBm ± 1.5 @ IEEE 802.11g, • 13 dBm ± 1.5 @ IEEE 802.11n (HT20) • 13 dBm ± 1.5 @ IEEE 802.11n (HT40)
Interface	...	10/100 Base-TX (RJ-45)	...	...	USB 2.0
Min. illumination	...	...	• 0.006 Lux / F1.6 (color) • 0.0006 F1.6 (B/W)	• 0.006 Lux / F1.6 (color) • 0.0006 F1.6 (B/W)	...
S/N ratio	...	...	> 56 dB	> 56 dB	...
Memory card slot	---	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)	...
Receiver sensitivity	...	...	...	...	11n HT40 MCS7 : -64 dBm
Image compression method	H.265+ / H.265 / H.264+ / H.264 / MJPEG	S+265 / H.265 / H.264	H.265+ / H.265 / H.264+ / H.264 / MJPEG	H.265+ / H.265 / H.264+ / H.264 / MJPEG	...
Access from PC	...	Port no.: 3000 or access by a cloud (P2P) - PC: Free application Easy7 Smart Client Express	...	...	...
Alarm inputs / outputs	---	---	1 / 1	1 / 1	...
Security measures	...	...	...	...	WEP 64/128-bit, WPA/WPA2, TKIP/AES, WAPI
Main features	...	...	...	...	LED indicator
Drivers	...	...	...	...	Windows CE/2000/XP/Vista/7/8/10, Mac OS X, Linux 2.6
Audio	---	• Microphone built-in • Audio transmission via network	• Microphone built-in • External microphone input • Audio output • Bi-directional audio streaming support • Audio detection • Compliance with the AAC standard	• Microphone built-in, • External microphone input • Audio output • Bi-directional audio streaming support • Audio detection • Compliance with the AAC standard	...
Certificates	...	...	...	...	CE
Main stream frame rate	25 fps @ 5 Mpx	25 fps @ 4 Mpx	• 20 fps @ 4 Mpx • 25 fps @ 3.7 Mpx	• 20 fps @ 4 Mpx • 25 fps @ 3.7 Mpx	...
Intelligent image analysis	...	• crossing the line (tripwire) • intrusion • video tampering	...	...	...
Network interface	10/100 Base-T (RJ-45)	...	10/100 Base-T (RJ-45)	10/100 Base-T (RJ-45)	...
RS-485 interface	---	---	---	---	...
Mechanical protection class	---	---	---	---	...
Network protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, UDP	...	IPv4/IPv6, HTTP, TCP, UDP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, NTP, Multicast, ICMP, IGMP, P2P	IPv4/IPv6, HTTP, TCP, UDP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, NTP, Multicast, ICMP, IGMP, P2P	...
WEB Server	Built-in	Built-in	Built-in	Built-in	...
Max. number of on-line users	10	2	6	6	...
ONVIF	2.4	✓	21.12	21.12	...
Mobile phones support	Port no.: 80 or access by a cloud (P2P) • Android: Free application BitVision • iOS (iPhone): Free application BitVision	Port no.: 3000 or access by a cloud (P2P) • Android: Free application EasyLive Plus • iOS (iPhone): Free application EasyLive Plus	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	DHCP or 192.168.1.2	192.168.1.108	192.168.1.108	...
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	...
Web browser access ports	80	80, 443, 3000, 3001, 3002, 23002	80, 37777	80, 37777	...
PC client access ports	80	3000, 3001	37777	37777	...
Mobile client access ports	80	3000, 3001	37777	37777	...

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Port ONVIF	80	80	80	80	...
RTSP URL	rtsp://user:password@ip_address:80/0 - Main stream rtsp://user:password@ip_address:80/1 - Sub stream	...	rtsp://admin:haslo@192.168.1.108:554/cam/realmonitor?channel=1&subtype=0 - Main stream rtsp://admin:haslo@192.168.1.108:554/cam/realmonitor?channel=1&subtype=1 - Sub stream	rtsp://admin:haslo@192.168.1.108:554/cam/realmonitor?channel=1&subtype=0 - Main stream rtsp://admin:haslo@192.168.1.108:554/cam/realmonitor?channel=1&subtype=1 - Sub stream	...
Main features	<ul style="list-style-type: none"> • WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • Flicker Control - The technology eliminates the tiring eyes flickering image effect • F-DNR (Defog) - Reduction of image noise caused by precipitation • ROI - improve the quality of selected parts of image • BLC - Back Light Compensation • HLC - High Light Compensation (spot) • ROI - improve the quality of selected parts of image • Possibility to change the resolution, quality and bit rate • ICR - Movable InfraRed filter • Motion Detection • Privacy zones • Mirror - Mirror image • Sharpness - sharper image outlines • Intelligent image analysis : intrusion 	<ul style="list-style-type: none"> • 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 • AGC - Automatic Gain Control • 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 • BLC/HLC - Back Light / High Light Compensation • Color maker - colorful night mode • Motion Detection 	<ul style="list-style-type: none"> • WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • ROI - improve the quality of selected parts of image • BLC/HLC - Back Light / High Light Compensation • Possibility to change the resolution, quality and bit rate • Motion Detection • Configurable Privacy Zones • Image rotation and mirror • SMD PLUS - searching for an object classified as: human, motor vehicle • IVS analysis : intrusion, crossing the line (tripwire) - classification of people and vehicles video tampering 	<ul style="list-style-type: none"> • WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • ROI - improve the quality of selected parts of image • BLC/HLC - Back Light / High Light Compensation • Possibility to change the resolution, quality and bit rate • Motion Detection • Configurable Privacy Zones • Image rotation and mirror • SMD PLUS - searching for an object classified as: human, motor vehicle • IVS analysis : intrusion, crossing the line (tripwire) - classification of people and vehicles video tampering 	...
Power supply	<ul style="list-style-type: none"> • PoE (802.3af), • 12 V DC / 320 mA 	<ul style="list-style-type: none"> • PoE (802.3af), • 12 V DC / 590 mA 	<ul style="list-style-type: none"> • PoE (802.3af), • 12 V DC / 510 mA 	<ul style="list-style-type: none"> • PoE (802.3af), • 12 V DC / 510 mA 	...
Power consumption	≤ 3.9 W	≤ 7 W	<ul style="list-style-type: none"> • ≤ 6.1 W @ 12 V DC • ≤ 7.2 W @ PoE 	<ul style="list-style-type: none"> • ≤ 6.1 W @ 12 V DC • ≤ 7.2 W @ PoE 	...
Housing	Compact - Aluminum	Compact - Metal + Plastic	Compact - Metal	Compact - Metal	...
Color	White	White	White + Black	Black	...
"Index of Protection"	IP67	IP67	IP67	IP67	...
Vandal-proof	—	—	—	—	...
Operation temp	-20 °C ... 60 °C	-40 °C ... 65 °C	-40 °C ... 60 °C	-40 °C ... 60 °C	...
Weight	0.42 kg	0.3 kg	0.71 kg	0.71 kg	0.01 kg
Dimensions	171 x 73 x 73 mm	160 x 73 x 73 mm	239 x 91 x 91 mm	239 x 91 x 91 mm	198 x 16 x 15 mm
Supported languages	Polish, English, Bulgarian Czech, French, Spanish, Dutch, German, Portuguese, Russian, Turkish, Italian	Polish, English, Albanian, Arabic, Spanish, Korean, French, Dutch, Hebrew, German, Portuguese, Russian, Thai, Turkish, Ukrainian, Vietnamese, Italian	Polish, English, Czech, French, Spanish, Dutch, German, Russian, Portuguese, Romanian, Turkish, Ukrainian, Hungarian, Italian	Polish, English, Czech, French, Spanish, Dutch, German, Russian, Portuguese, Romanian, Turkish, Ukrainian, Hungarian, Italian	...
Manufacturer / Brand	APTI	TIANDY	DAHUA	DAHUA	OPTICUM
Guarantee	2 years	3 years	3 years	3 years	2 years



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