

	IP CAMERA IPC-36155E-DFE28KM-UL-10 ColorHunter - 5 Mpx 2.8 mm UNIVIEW	IP CAMERA DS-2C01232G-1LU2-BMMUFI Smart Hybrid Light - 1080p Hikvision	IP VANDAL-PROOF CAMERA IPC-HDBW5418R-ASE-LED-0280R Full-Color - 4 Mpx 2.8 mm DAHUA	CONNECTOR FOR LED STRIPS AD-TI-6499Z/F 8 mm ORNG	IP CAMERA IPC-HDW3540H-ZAS-PI-97135 TIOC Full-Color 2.7 ... 13.5 mm. MOTOZOOM DAHUA
	340.48 EUR 340.48 EUR	136.42 EUR 136.42 EUR	557.56 EUR 557.56 EUR	0.66 EUR 0.66 EUR	606.02 EUR 606.02 EUR
Application				Works with LED lighting	
Standard	TCPIP	IP	TCPIP		TCPIP
Number of power outputs	...	...	...	1 pcs	...
Strip width	...	...	...	8 mm	...
Matrix size	5 Mpx	...	4 Mpx	...	5 Mpx
Length of the cable	...	...	...	140 mm	...
Maximal power voltage	...	...	...	48 V	...
Sensor	1/2.7" Progressive Scan CMOS	1/2.9" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS	...	1/2.7" Progressive Scan CMOS
Resolution	2880 x 1620 - 5 Mpx, 2560 x 1440 - 3.7 Mpx, 2304 x 1296 - 3 Mpx, 1920 x 1080 - 1080p	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	...	2960 x 1668 - 5 Mpx, 2880 x 1620 - 4.6 Mpx, 2688 x 1520 - 4 Mpx, 2560 x 1440 - 3.7 Mpx, 2048 x 1536 - 3 Mpx, 2304 x 1296 - 3 Mpx, 1920 x 1080 - 1080p 1280 x 960 - 1.3 Mpx, 1280 x 720 - 720p
Lens	2.8 mm @ F1.0	2.8 mm	2.8 mm	...	2.7 - 13.5 mm - Motozoom
View angle	* 102° (manufacturer data) * 101° (our tests result)	103°	* 107° (manufacturer data) * 104° (our tests result)	...	* 113° ... 36° (manufacturer data) * 109° ... 36° (our tests result)
Range of IR illumination	...	30 m	...	...	50 m
White light LED illuminator range	30 m	30 m	30 m	...	40 m
Min. illumination	...	...	0.0005 Lux / F1.0 (color)	...	0.003 Lux / F1.0 (color) 0.0003 Lux / F1.0 (B/W)
S/N ratio	> 56 dB	...	...	...	> 56 dB
RS-485 interface	...	...	...	...	...
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)
Image compression method	Ultra 265 / H.265 / H.264 / MJPEG	H.265+ / H.265 / H.264+ / H.264 / MJPEG	H.265+ / H.265 / H.264+ / H.264 / MJPEG	...	Ai H.265 / H.265+ / H.265 / Ai H.264 / H.264+ / H.264 / H.264H / H.264B / MJPEG
Alarm inputs / outputs	...	...	1 / 1	...	1 / 1
Audio	* Microphone built-in * Audio transmission via network * Audio detection	* Microphone built-in * Audio transmission via network * Compliance with the AEC standard * Noise and echo reduction	* Microphone built-in * External microphone input * Audio output * Bi-directional audio streaming support * Audio detection	...	* Microphone built-in - 2 pcs. * External microphone input, * Speaker built-in * Audio output * Bi-directional audio streaming support * Audio detection
Main stream frame rate	25 fps @ 5 Mpx	25 fps @ 1080p	25 fps @ 4 Mpx	...	30 fps @ 5 Mpx 25 fps @ 4 Mpx
Mechanical protection class	...	...	...	...	...
Network interface	10/100 Base-TX (RJ-45)	10/100 Base-T (RJ-45)	10/100 Base-T (RJ-45)	...	10/100 Base-T (RJ-45)
SAP Code	...	111327280	...	...	...
Network protocols	IPv4/IPv6, ICMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, IEEE 802.1x, SNMP, QoS, RTMP, SSH, TLS, SSH	...	IPv4/IPv6, HTTP, HTTPS, TCP, UDP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS, SAMBA, PPPoE, IEEE 802.1x, SNMP	...	IPv4/IPv6, HTTP, TCP, UDP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS, SAMBA, PPPoE, SNMP, P2P
WEB Server	Built-in	Built-in	Built-in	...	Built-in
Max. number of on-line users	32	6	20	...	20
ONVIF	✓	✓	20.12	...	22.06
Mobile phones support	Access by a cloud (P2P) * Android: Free application <a href="#">EZView</a> * iOS (iPhone): Free application <a href="#">EZView</a>	Port no.: 8000 or access by a cloud (P2P) * Android: Free application <a href="#">HiK-Connect</a> * iOS: Free application <a href="#">HiK-Connect</a>	Port no.: 37777 or access by a cloud (P2P) * Android: Free application <a href="#">DMSS</a> * iOS (iPhone): Free application <a href="#">DMSS</a>	...	Port no.: 37777 or access by a cloud (P2P) * Android: Free application <a href="#">DMSS</a> * iOS (iPhone): Free application <a href="#">DMSS</a>
Default IP address	DHCP or 192.168.1.13	192.168.1.64	192.168.1.108	...	192.168.1.108
Default admin user / password	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
Web browser access ports	80, 554	80	80, 37777	...	80, 37777
PC client access ports	Port no.: 80 or access by a cloud (P2P) - PC: Free application <a href="#">EZStation</a>	Port no.: 8000 or access by a cloud (P2P) - IVMS-4200 application	37777	...	37777
Mobile client access ports	80	8000	37777	...	37777
Port ONVIF	80	80	80	...	80
RTSP URL	rtsp://192.168.1.13:554/unicast/c1s0/live - Main stream rtsp://192.168.1.13:554/unicast/l1s1/live - 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	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	* ColorHunter - colorful night mode * 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 * WB - White Balance * ATW(WB) manual(indoor/outdoor) * ROI - improve the quality of selected parts of image * ANR - Automatic Network Replenishment allows to save image to the card when the network connection with DVR is break (network failure) and next synchronize its * NAS - Network Attached Storage support * Possibility to change the resolution, quality and bit rate * Sharpness - sharper image outlines * Corridor mode - useful for monitoring corridors, entrance gates and narrow rooms * Privacy zones - max. 4 * Motion detection with human/vehicle silhouette recognition * Intelligent image analysis - crossing the line (tripwire), intrusion, entering the marked area, leaving the marked area, face detection, people counting, crowd gathering estimation * Overvoltage protection - 4 kV	* Smart Hybrid Light technology - IR or LED illuminator works in night mode. White light will turn on automatically only when an object is detected in the monitored area, which effectively improves image quality * Possibility to turn off the LED illuminator * WDR - Wide Dynamic Range * 3D-DNR - Digital Noise Reduction * ROI - improve the quality of selected parts of image * BLC - Back Light Compensation * HLC - High Light Compensation (spot) * Possibility to change the resolution, quality and bit rate * Image rotation and mirror * Sharpness - sharper image outlines * video tampering * Configurable Privacy Zones * Smart motion detection (with recognizing people and vehicles)	* WDR - 140 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 * NAS - Network Attached Storage support * BLC/HLC - Back Light / High Light Compensation * Possibility to change the resolution, quality and bit rate * Motion Detection * Configurable Privacy Zones * Mirror - Mirror image * Heat map - the selection in the image by corresponding colors the areas with different traffic * IVS analysis - Parking monitoring mode, crossing the line (tripwire) - classification of people and vehicles, intrusion - classification of people and vehicles, fast moving - classification of people and vehicles, illegal parking, detection of people gathering, people counting, scene changing, abandoned/missing object, face detection, counting people entering and leaving the area - configuration to 4 counting rates, counting people in a given area - configuration to 4 counting rates, Statistical Reporting	...	* Active deterrence function, Alternately flashing LEDs: red and blue - frequency configuration, Siren sound - 3 volume levels * 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 * SMD A.I.O. - 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 * AI SSM AI Smart Scene Adaptive - scene auto-adaptation using deep learning algorithms to detect environmental conditions such as rain, fog, backlight, low light and flickering in order to set the optimal image parameters * BLC/HLC - Back Light / High Light Compensation * Day/night mode * Full Color - colorful night mode * Auto White Balance * AGC - Automatic Gain Control * Motion Detection - max. 4 zones * Privacy zones - max. 8 * Mirror - Mirror image * Light and sound alarm * White light (LED) illuminator built-in : 2 LEDs * IVS analysis - Smart motion detection (with recognizing people and vehicles), crossing the line (tripwire), intrusion - classification of people and vehicles, scene changing, video tampering, Audio detection
Power supply	* PoE (802.3af), * 12 V DC / 625 mA	* PoE (802.3af), * 12 V DC / 420 mA	* PoE (802.3af), * ePoE, * 12 V DC / 590 mA	...	* PoE (802.3af), * 12 V DC / 710 mA
Power consumption	≤ 7.5 W	≤ 6.5 W @ PoE ≤ 5 W @ 12 V DC	≤ 7 W @ 12 V DC ≤ 5.5 W @ PoE	...	≤ 10.6 W @ PoE ≤ 6.5 W @ 12 V
Housing	Dome, Metal	Dome, Metal + Plastic	Dome - Metal	Plastic	Dome - Metal

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Color	White	White	White	White	White
*Index of Protection*	IP67	IP67	IP67	IP67	IP67
Vandal-proof	--	--	BK10	--	--
Operation temp	-30 °C ... 60 °C	-30 °C ... 60 °C	-40 °C ... 60 °C	--	-30 °C ... 60 °C
Weight	0.46 kg	0.36 kg	0.53 kg	0.002 kg	0.89 kg
Dimensions	Ø 110 x 94 mm	Ø 110 x 89 mm	Ø 122 x 94 mm	140 x 15 x 5 mm	Ø 122 x 128 mm
Supported languages	Polish, English, Czech, Spanish, Dutch, French, German, Portuguese, Slovak, Hungarian, Italian	Polish	Polish, English, Czech, French, Spanish, Dutch, German, Russian, Portuguese, Italian	--	Polish, English, Czech, French, Spanish, Dutch, German, Russian, Portuguese, Romanian, Turkish, Ukrainian, Hungarian, Italian
Manufacturer / Brand	UNIVIEW	Hikvision	DAHUA	ORNO	DAHUA
Guarantee	3 years	3 years	3 years	2 years	3 years



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