

	PANEL WITH CABLE ENTRY A13-P2	IP CAMERA IPC-PHW5471L ZAS-P2-72135 TOC: Full-Color - 5 Mpx 2.8 - 11.4 mm - MOVIZOOM DAHUA	IP CAMERA IPC-H0821M3-V-LED-5080R - 5 Mpx 1.6 mm DAHUA	IP CAMERA AP71-A010R-420-36AD Active Deterrence - 5 Mpx 2.8 mm	IP CAMERA IPC-PHW5471L AS-P2-5080R-55 TOC: Full-Color - 5 Mpx 2.8 mm DAHUA	IP CAMERA DS-3C7104L50E-L2 4MMX1 ColorVs 4 Mpx Hikvision
						
	31.50 PLN 31.50 PLN	2403.00 PLN 2403.00 PLN	1838.00 PLN 1838.00 PLN	368.00 PLN 368.00 PLN	1959.00 PLN 1959.00 PLN	693.00 PLN 693.00 PLN
Width	52 *	70x70	70x70	52	52	70x70
Height	110	5 Mpx	5 Mpx	-	-	5 Mpx
Matrix size	-	-	-	-	-	-
Material	Steel - powder painted	-	-	-	-	-
Application	RACK 19"	-	-	-	-	-
Main features	• 100 x 30 mm (opening for cables entry) • Cable entry with brackets ensuring protection against dust • 4-point fixing to the front RACK rails • 4 pcs. of M6 screws with eye nuts included • Corrosion resistance	-	-	-	-	-
Sensor	-	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS	1/2.8" SONY Starvis™ Backs Illuminated CMOS	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS
Resolution	-	2960 x 1668 - 5 Mpx, 2592 x 1440 - 4.7 Mpx, 2688 x 1520 - 4 Mpx, 2560 x 1440 - 3.7 Mpx, 2048 x 1536 - 3 Mpx, 2304 x 1296 - 3 Mpx, 1920 x 1080 - 1080p, 1280 x 960 - 1.3 Mpx, 1280 x 720 - 720p	2560 x 1920 - 5 Mpx, 2688 x 1520 - 4 Mpx, 2560 x 1440 - 3.7 Mpx, 2304 x 1296 - 3 Mpx, 1920 x 1080 - 1080p, 1280 x 960 - 1.3 Mpx, 1280 x 720 - 720p	2592 x 1944 - 5 Mpx, 2560 x 1440 - 3.7 Mpx, 1920 x 1080 - 1080p, 1280 x 720 720p	2960 x 1668 - 5 Mpx, 2592 x 1440 - 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 720 - 720p	2560 x 1440 - 4 Mpx, 1920 x 1080 - 1080p 1280 x 720 - 720p
Lens	-	0.8 - 13.5 mm - Motocom	3.6 mm	2.8 mm	-	2.8 mm
Interface	-	-	-	10/100 Base-T (RJ-45)	-	-
View angle	113° ... 36° * (manufacturer data)	79° *	79° *	106° *	97° *	• 102° * (manufacturer data) • 93° * (our tests results)
Range of IR illumination	-	40 m	-	-	30 m	-
White light LED illuminator range	-	30 m	0.02 Lux @ F2.0 / 3000 (color), • 0.0002 Lux @ F2.0 / 3000 (BW) • 0 Lux @ LED	-	30 m	30 m
Min. illumination	0.003 Lux / F1.0 (color)	-	-	0.003 Lux / F1.0 (color)	-	-
SN ratio	> 56 dB	-	-	> 56 dB	-	-
RS-485 interface	-	-	-	-	-	-
RS-232 interface	-	-	-	-	-	-
Alarm inputs / outputs	1 / 1	-	-	1 / 1	-	-
Image compression method	-	H.265 / H.265+ / AI H.264 / H.264+	H.265+ / H.265 / H.264+ / H.264 / H.264H / H.264H / MJPEG	H.265+ / H.265 / H.264+ / H.264 / MJPEG	H.265+ / H.265 / AI H.264 / H.264+ / H.264	H.265+ / H.265 / H.264+ / H.264 / MJPEG
Audio	• Microphone built-in - 2 pcs. • External microphone input. • Speaker built-in • Audio output • Bi-directional audio streaming support • Audio detection	• Microphone built-in. • Audio detection	• Microphone built-in. • Speaker built-in. • Bi-directional audio streaming support • Audio output • 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	20 fps @ 5 Mpx 25 fps @ 4 Mpx	25 fps @ 5 Mpx	25 fps @ 5 Mpx	max. 25 fps @ 5 Mpx	20 fps @ 5 Mpx	20 fps @ 4 Mpx 25 fps @ 1080p
Network interface	10/100 Base-T (RJ-45)	10/100 Base-T (RJ-45)	-	• intrusion - classification of people and vehicles • crossing the line (tripwire) • classification of people and vehicles • detection of people gathering • loitering detection • motion detection based on human detection	10/100 Base-T (RJ-45)	10/100 Base-T (RJ-45)
Intelligent image analysis	-	-	-	• intrusion - classification of people and vehicles • crossing the line (tripwire) • classification of people and vehicles • detection of people gathering • loitering detection • motion detection based on human detection	• intrusion - classification of people and vehicles • crossing the line (tripwire) • classification of people and vehicles • video tampering • scene changing	-
Network protocols	IPv4/IPv6, HTTP, TCP, UDP, ARP, RTP, RTSP, RTCP, ICMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS, SAMBA, PPPoE, SNMP	IPv4/IPv6, HTTP, TCP, UDP, ARP, RTP, RTSP, RTCP, ICMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS, PPPoE	IPv4/IPv6, HTTP, TCP, UDP, ARP, RTP, RTSP, RTCP, ICMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS, PPPoE	-	IPv4/IPv6, HTTP, TCP, UDP, ARP, RTP, RTSP, RTCP, ICMP, SMTP, IGMP, QoS, IPv6, UDP, Bonjour, SSL / TLS	IPv4/IPv6, HTTP, TCP, UDP, ARP, RTP, RTSP, RTCP, ICMP, DNS, DDNS, RTP, RTCP, NTP, UPnP, SMTP, IGMP, QoS, IPv6, UDP, Bonjour, SSL / TLS
WEB Server	Built-in	✓	Built-in	Built-in	Built-in	Built-in
Max. number of on-line users	20	20	10	20	20	6
ONVIF	21.12	21.12	21.12	21.12	21.12	18.12
Mobile phones support	Port no.: 37777 or access by a cloud (P2P) • Android: Free application iNASS • iOS (iPhone): Free application iNASS	Port no.: 37777 or access by a cloud (P2P) • Android: Free application iNASS • iOS (iPhone): Free application iNASS	Port no.: 80 or access by a cloud (P2P) • Android: Free application iNASS • iOS (iPhone): Free application iNASS	Port no.: 37777 or access by a cloud (P2P) • Android: Free application iNASS • iOS (iPhone): Free application iNASS	Port no.: 37777 or access by a cloud (P2P) • Android: Free application iNASS • iOS (iPhone): Free application iNASS	Port no.: 8000 or access by a cloud (P2P) • Android: Free application iNASS • iOS: Free application iNASS
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 1TB support (possible local recording)	Micro SD card support up to 256GB	-
Default IP address	192.168.1.108	192.168.1.108	192.168.1.108	192.168.1.108	192.168.1.108	192.168.1.64
Default admin user / password	admin / The administrator password should be set at the first start	admin / The administrator password should be set at the first start	admin / The administrator password should be set at the first start	admin / 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, 37777	80, 37777	80	80, 37777	80	80
IP Code	-	-	-	-	11131676	-
PC client access ports	37777	37777	80	37777	-	Port no.: 8000 or access by a cloud (P2P) / NVMS-4200 application
Mobile client access ports	37777	37777	80	37777	8000	8000
Port ONVIF	80	80	80	80	80	80
RTSP URL	http://admin.hasko@192.168.1.108:554/cam/realmonitor?channel=16&subtype=0 Main stream http://admin.hasko@192.168.1.108:554/cam/realmonitor?channel=16&subtype=1 Sub stream	http://admin.hasko@192.168.1.108:554/cam/realmonitor?channel=16&subtype=0 Main stream http://admin.hasko@192.168.1.108:554/cam/realmonitor?channel=16&subtype=1 Sub stream	http://admin.hasko@192.168.1.108:554/cam/realmonitor?channel=16&subtype=0 Main stream http://admin.hasko@192.168.1.108:554/cam/realmonitor?channel=16&subtype=1 Sub stream	http://user.password@ip.address:80 Main stream http://user.password@ip.address:80 Sub stream	http://admin.hasko@192.168.1.108:554/cam/realmonitor?channel=16&subtype=0 Main stream http://admin.hasko@192.168.1.108:554/cam/realmonitor?channel=16&subtype=1 Sub stream	Main stream : http://user.password@192.168.1.64:554/Streaming/Channels/01/ Sub stream: http://user.password@192.168.1.64:554/Streaming/Channels/02/
Mechanical protection class	-	-	-	-	-	-
Main features	• 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 - improves the quality of selected parts of image • F-FNR (Defog) - Reduction of image noise caused by precipitation • Quick Pick - AI technology enabling, together with the recorder, quick identification of interesting objects (people/vehicles) based on an artificial intelligence algorithm. It allows to extract and compare the colors of clothes and vehicles • SMD 4.0 - searching for an object classified as: human, motor vehicle - increased detection distance and resistance to false alarms • AI SSA AI Smart Scene Adaptive - scene auto-adaptation using deep learning algorithms to detect environmental conditions such as rain, fog, backlight, low light and flickering, in order to set the optimal image parameters • BLC/RLC - Back Light / High Light Compensation • Day/Night mode • Full Color - colorful night mode • Auto White Balance • AGC - Automatic Gain Control • Mirror - Mirror image • WDR - Wide Balance (ATW/BW/Manual/Indoor/outdoor) • AGC - Automatic Gain Control • Day/Night mode (color/white) • SSA - Smart Scene Adaptive - intelligent scene adaptation by automatically adjusting the exposure parameters to obtain a better image • Light filtering system (polarizing filters) effectively reduces the reflection of light to deliver clear image • Holed Glass quickly removes water, ice, snow and mist from the glass to keep the clear image (Heater built-in) • Mounting bracket included - Height adjustment	• WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • ROI - improves the quality of selected parts of image • BLC - Back Light Compensation • HLC - High Light Compensation (spot) • Configurable Privacy Zones • Motion Detection • Scene changing • Video tampering • Mirror - Mirror image • WB - White Balance (ATW/BW/Manual/Indoor/outdoor) • AGC - Automatic Gain Control • Day/Night mode (color/white) • SSA - Smart Scene Adaptive - intelligent scene adaptation by automatically adjusting the exposure parameters to obtain a better image • Light filtering system (polarizing filters) effectively reduces the reflection of light to deliver clear image • Holed Glass quickly removes water, ice, snow and mist from the glass to keep the clear image (Heater built-in) • Mounting bracket included - Height adjustment	• Active intrusion deterrence works by blinking blue and red light and siren sound or voice prompts • WDR - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • F-FNR (Defog) - Reduction of image noise caused by precipitation • ROI - improves the quality of selected parts of image • SMD 4.0 - searching for an object classified as: human, motor vehicle - increased detection distance and resistance to false alarms • AI SSA AI Smart Scene Adaptive - scene auto-adaptation using deep learning algorithms to detect environmental conditions such as rain, fog, backlight, low light and flickering, in order to set the optimal image parameters • ACPick support - technology that uses artificial intelligence on both front-end and back-end to search through massive amounts of video data to quickly locate targets with high precision • BLC/RLC - Back Light / High Light Compensation • Day/Night mode • Full Color - colorful night mode • Auto White Balance • AGC - Automatic Gain Control • Motion Detection - max. 4 mm • Privacy zones - max. 8 • Image rotation and mirror • Light and sound alarm • White light (LED) illuminator built-in - 2 LEDs	• Possibility to turn off the LED illuminator • WDR - 120 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • ROI - improves the quality of selected parts of image • Anti-Flicker - The technology eliminates the timing eyes flickering image effect • BLC - Back Light Compensation • HLC - High Light Compensation (spot) • Auto White Balance • AGC - Automatic Gain Control • Possibility to change the resolution, quality and bit rate • Motion Detection • Mirror - Mirror image • Configurable Privacy Zones • Sharpness - sharper image outlines		
Power supply	• PoE (802.3af) • 12 V DC / 570 mA	• PoE (802.3af) • 12 V DC / 420 mA	• PoE (802.3af) • 12 V DC / 400 mA	• PoE (802.3af) • 12 V DC / 700 mA	• PoE (802.3af) • 12 V DC / 380 mA	• PoE (802.3af) • 12 V DC / 380 mA
Power consumption	max. 4.8 W @ PoE max. 8.8 W @ 12 V	max. 4.8 W @ PoE max. 8.8 W @ 12 V	max. 4.8 W @ PoE max. 8.8 W @ 12 V	max. 4.8 W @ PoE max. 8.8 W @ 12 V	max. 4.8 W @ PoE max. 8.8 W @ 12 V	max. 4.8 W @ PoE max. 8.8 W @ 12 V
Housing	Compact - Metal	Compact - Metal	Compact - Metal	Compact - Metal	Compact - Metal	Compact - Metal
Color	Black (RAL 9005)	Black	Black	Black	Black	White
"Index of Protection"	IP67	IP67	IP67	IP67	IP67	IP67
Vandal-proof	-	-	-	-	-	-
Operation temp	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	0.225 kg	1.05 kg	1.29 kg	1.29 kg	1.42 kg	0.82 kg
Dimensions	483 x 44 x 15 mm	280 x 95 x 85 mm	166 x 45 x 32 mm (camera) 50 cm (cable length) 150 x 70 x 88 mm (Bracket) 70 ... 115 mm (Mounting hole diameter for the meter)	268 x 95 x 88 mm	289 x 95 x 85 mm	166 x 77 x 77 mm
Supported languages	-	-	English	Polish, English, French, Russian, Spanish, Portuguese, Italian, Ukrainian, Hungarian	Polish, English, Czech, French, Spanish, Dutch, German, Russian, Portuguese, Romanian, Ukrainian, Hungarian, Italian	English, Ukrainian
Manufacturer / Brand	DAHUA	DAHUA	DAHUA	DAHUA	DAHUA	Hikvision
Warranty	2 years	2 years	2 years	2 years	2 years	2 years