

	SMART SWITCH SWITCHBOX 4 LIGHT/IR FIBOX Wi-Fi 2.4 V AC	IP CAMERA IHD-R18-M2F1 Wi-Fi- 1080p 2.8 mm I/VIEW	AHD_HD-CVI_HD-TVI_CVBS CAMERA HAC-MDHW1238T-A LED-920095 Sz Full Color - 1080p 2.8 mm DAHUA	RELAY OR PL456230AC DRNO	POWER SUPPLY ADAPTER PSC-12015	LCD SCREEN CLEANER LCD-CLEANER/400 SPRAY / ESIAM 400 ml AG THERMOCASTIX	AC/ESS POINT RG RAP3HD Wi-Fi 2.4 GHz 5 GHz - 6 GHz 1.376 Mbps 5.835 Mbps 11530 Mbps BEYEE	EXTENSION CABLE ES-XX1 5-50M/ORANGE 50 m	NVR NVR6168H-64-X1 64 CHANNELS Wi-MoD DAHUA
									
	22.40 EUR 22.40 EUR	70.01 EUR 70.01 EUR	93.76 EUR 93.76 EUR	22.05 EUR 22.05 EUR	8.64 EUR 9.64 EUR	4.00 EUR 4.02 EUR	1211.95 EUR 1211.95 EUR	16.62 EUR 16.62 EUR	9748.11 EUR 9748.11 EUR
Number of relay outputs				1					
Length of the cable								50 m	
Adapter type					Switching				
Wire gauge								2 x 1.5 mm ²	
Supported resolutions									max. 32 Mpx
Frequency range							2.4 GHz, 5 GHz, 6 GHz		
Package						Spray / Foam: 400 ml			
Power voltage					100 ... 240 V AC				
Current consumption				30 mA @ 230 V AC					
Standard		TCF/PIF	AHD, HD-CVI, HD-TVI, CVBS						IP
Application	switching devices out/off					LCD displays cleaning			
Rated voltage	230 V AC							230 V AC / 50 Hz	
Output voltage					12 V DC				
Sensor		1/2.9" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS						
Maximal load					1.5 A				
Total maximal current	5 A							10 A	
Matrix size		2.1 Mpx	2.1 Mpx						
Maximal total load	1150 W / 1150 VA							2500 W	
Output power					18 W				
Number of inputs	1								
Number of outlets								1 x CEE 7/17	
Video outputs									• 2 pcs HDMI 4K • 1 pcs HDMI 8K • 1 pcs HDMI • 2 pcs VGA
Number of outputs	1				1 pcs				
Plate									
Connector type	screw terminals								
Power connectors type					2.1/5.5 mm Straight plug				
Housing type	Switch				Plastic				
Relay maximal load					16 A / 250 V AC (max) 16 A / 24 V DC (max)				
Wireless	Wi-Fi, 2.4 GHz - IEEE 802.11g								
Output					1 x NO/NC				
Antenna type							4x4 MIMO, 2.4 GHz - 4 dBi / 5 GHz - 6 dBi / 6 GHz - 6 dBi - Integrated		
Standards							IEEE 802.11b		
Audio support									• 64 Channels - Audio from cameras, • Bi-directional audio streaming support • Audio detection
Resolution		1920 x 1080 - 1080p, 1280 x 720 - 720p	1920 x 1080 - 1080p, 960 x 576 - 960H, CVBS						
Audio inputs									1 pcs CINCH
Lens		2.8 mm @ F2.1	2.8 mm						2 pcs CINCH
Audio outputs									
Optical zoom									
Digital zoom									
Range of IR illumination		30 m							
View angle		101°	• 107° (manufacturer data) • 101° (four tests result)						
RS-485 interface									
White light LED illuminator range			40 m						
Bitrate									max. 1280 Mbps
Memory card slot		Micro SD memory cards up to 128GB support (possible local recording) - The IP-64C7-L 64GB memory card included in the kit.							
Band rates							• 2.4 GHz - 1376 Mbps • 5 GHz - 5760 Mbps • 6 GHz - 11530 Mbps		
Supported hard drives									16 x 20 TB SATA + 1 x eSATA, RAID 0/1/5/6/10
Image compression method		Ultra 265 / H.265 / H.264 / MJPEG							Smart H.265+ / H.265 / Smart H.264+ / H.264
Video output			AHD / HD-CVI / HD-TVI / CVBS, V-Box / V3.0						
Recording modes									Manual, Sensor, Motion detection, Schedule
External storage devices backup									Backup to USB drive (pendrive, external drive)
Wireless transmission range							40 m - 2.4 GHz 70 m - 5 GHz 70 m - 6 GHz		
Audio		• Microphone built-in, • Audio transmission via network, • Audio detection	• Microphone built-in, • Audio support via coaxial cable - HD-CVI only						
OSD menu			OSD menu available via DAHUA recorder						
Searching and playback the records									• Records searching by time and events type. Records playback: forward, backward, fast, slow • Advanced searching (to the one second accuracy) • Smart Playback function • Records playback from max. 16 channels in the same time
Main stream frame rate		25 fps @ 1080p							
Protections							WPA-PSK WPA2-PSK WPA/WPA2-PSK WPA3-SAE WPA2-PSK/WPA3-SAE		
Network functions									Full support via network, Remote records copying, Web-Server built-in
LAN ports							• 1x 10 Gbps PoE IN • 1 x 10/100/1000 Mbps • 1 x 10 Gbps port SFP+		
Network interface		• Wi-Fi - 2.4 GHz IEEE 802.11 b/g/n, • 10/100 Base-T (RJ-45)							4 x RJ-45 10/100/1000/2500 Base-TX
WEB Server		Built-in							
Max. number of on-line users		6							
ONVIF									22.08
Mobile phones support	• The mBox free application on Android • The mBox free application on iOS	Access by a cloud (P2P) • Android: Free application EZView • iOS (iPhone): Free application EZView					Android: Free application Dahua Remote iOS (iPhone): Free application Dahua Remote		Port no.: 37777 or access by a cloud (P2P) • Android: Free application DMSS • iOS (iPhone): Free application DMSS See how to configure the P2P function in Dahua recorders and how to enable the mobile application
Default admin user / password		admin / 123456							admin / - The administrator password should be set at the first start
PC client access ports		Port no.: 80 or access by a cloud (P2P) - PC: Free application EZStation							37777
Web browser access ports		80, 554 or 192.168.1.13							80, 37777
Default IP address		DHCP				10.44.77.254			192.168.1.108
Mobile client access ports		80							37777

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Transmitter power									<ul style="list-style-type: none"> ≤ 20 dBm @ 2400 MHz - 2483.5 MHz ≤ 23 dBm @ 5150 MHz - 5350 MHz ≤ 30 dBm @ 5470 MHz - 5725 MHz ≤ 23 dBm @ 5945 MHz - 6425 MHz 		
Port ONVIF	--										
Power supply PoE									PoE (802.3at), PoE (802.3bt)		
RTSP URL		http://192.168.1.13:554/unicast/1/s0/live Main stream http://192.168.1.13:554/unicast/1/s1/live Sub stream								http://admin.hasbo@192.168.1.108:554/cam/realmonitor?channel=1&subtype=0 Main stream http://admin.hasbo@192.168.1.108:554/cam/realmonitor?channel=1&subtype=1 Sub stream	
USB										<ul style="list-style-type: none"> • 2 pcs USB 2.0 • 2 pcs USB 3.0 • 2 pcs RS-485 • 1 pcs RS-232 	
Serial ports											
Alarm inputs / outputs	--										32 / 16
PTZ control											<ul style="list-style-type: none"> • IP Speed Dome Camera • RS-485 - PELCO-D/P and others
Intelligent image analysis											✓
Motion Detection											✓
Main features	<ul style="list-style-type: none"> • Local control by physical button, • schedule, • timer, • remote access, • voice control • The ability to set the default status of the device after a power failure • pWiFi technology support 		<ul style="list-style-type: none"> • DIN, TS-35 rail mounting • LED indication • Bistable operation controlled by the S control input 	<ul style="list-style-type: none"> • Short-circuit protection • Overload protection • The device has very small dimensions 	The agent, after being applied to the surface, takes the form of a foam that facilitates spreading		<ul style="list-style-type: none"> • Possibility to mount on the wall or ceiling • Support for Reyee Mesh technology • Number of users : 1500 (max) • OFDMA • WMM (Wi-Fi Multimedia) Access Point is managed through the web and the cloud (Druje Reyee application) • Load balance • AP placement and RF maps • Easy and uniform management system for many devices • Intuitive installation and configuration of many advanced functions • Beamforming (DBF) - technology that allows to create a beam of radio waves in order to improve the quality of connection with client devices located further away from the signal source • Seamless Roaming - 802.11k/v roaming function switches clients automatically to the AP with the optimal signal with a seamless transition when moving. This allows sensitive applications like VoIP and video conferences to go uninterrupted 			<ul style="list-style-type: none"> • Intelligent image analysis : IVS analysis - 10 rules, scene changing, face detection, • SMD PLUS - searching for an object classified as: human, motor vehicle, non-motor vehicle • Filtering of false alarms based on the recognition of persons and vehicles • Face recognition - supports 6 types of facial attributes extraction • Face recognition and analysis in real time (up to 16 photos per second) • Support for up to 40 face databases, including 300 000 face images • metadata handling - automatic photo taking and collection of information enabling the subsequent identification of people and vehicles that triggered the alarm (clothing, silhouette, face, features of motor and non-mechanical vehicles) • AcqPick 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 • EFTZ - advanced target detection and tracking algorithms that trigger alarms can simultaneously zoom and track many people and/or vehicles 	
Permissible relative humidity									5 % ... 95 %		
Housing	Plastic	Compact, Metal + Plastic	Dome, Aluminum								
Color	Black	White	White							Orange	
"Index of Protection"	IP20	IP67	IP67			IP67					
Vandal-proof	--	--	--								
Operation temp		30 °C ... 60 °C	40 °C ... 60 °C								
Main features		<ul style="list-style-type: none"> • WiFi Module • Day/Night mode • ICR - Movable InfraRed filter • WB - White Balance (ATW/AWB/manual/indoor/outdoor) • AGC - Automatic Gain Control • B-WDR - Wide Dynamic Range • 2D-DNR - 3D-DNR - Digital Noise Reduction • F-DNR (Defog) - Reduction of image noise caused by precipitation • ROI - improves 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 • BLC/HLC - Back Light / High Light Compensation • Auto White Balance • Sharpness - sharper image outlines • AGC - Automatic Gain Control • Mirror - Mirror image • Privacy zones - max. 8 • Possibility to turn off the LED illuminator • WDR - 130 dB - Wide Dynamic Range • 3D-DNR - Digital Noise Reduction • BLC/HLC - Back Light / High Light Compensation • Auto White Balance • Sharpness - sharper image outlines • AGC - Automatic Gain Control • Mirror - Mirror image • Privacy zones - max. 8 • Possibility to change the resolution, quality and bit rate • Privacy zones - max. 4 • Motion Detection • Intelligent image analysis : Human detection • Overvoltage protection : 4 kV 									
Mouse support											✓
IR remote controller in the set											
Switch PoE											
Power supply		12 V DC / 300 mA	12 V DC / 350 mA	230 V AC			48 V / 1.25 A (power adapter not included)				<ul style="list-style-type: none"> • 100 ... 240 V AC @ 50 ± 2 Hz • Redundant power supply
Power consumption		≤ 3.6 W	≤ 5.1 W				≤ 60 W				max. 25 W (without HDD)
Operation temp	20 °C ... 50 °C		20 °C ... 50 °C	0 °C ... 40 °C			0 °C ... 40 °C				10 °C ... 35 °C
Weight	0.027 kg	0.29 kg	0.45 kg	0.07 kg	0.16 kg	0.45 kg	1.5 kg	3.6 kg			13.03 kg
Dimensions	38 x 25 x 23 mm	168 x 88 x 72 mm	Φ 106 x 94 mm	97 x 17 x 65 mm	58 x 58 x 28 mm	Φ 66 x 200 mm	257 x 257 x 63 mm				485 x 529 x 133 mm
Supported languages		English									Polish, English
Manufacturer / Brand	BlackBox	UNVIEW	DAHUA	ORNO	PULSAR	AG TERMO PASTY	RUIJIE / REYEE	DAHUA			
Guarantee	2 years	3 years	3 years	2 years	3 years		3 years	2 years			3 years

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