



	IP HYBRID THERMAL IMAGING CAMERA TPC-BF2120-T1F4 1.0 mm - 1.3 Mpx, 4 mm - 1080p DAHUA	IP VANDALPROOF CAMERA IPC-HDBW1531E-S-0280B - 5.0 Mpx 2.8 mm DAHUA
		
	5783.00 PLN 5783.00 PLN	877.00 PLN 877.00 PLN
Pixel pitch	12 µm	...
Thermal sensitivity (NETD)	< 50 mK @ F1.1	...
Spectral range	7 µm ... 14 µm	...
Temperature measurement	<ul style="list-style-type: none"> • Spot • Line • Area max. 8 positions	...
Temperature measurement range	<ul style="list-style-type: none"> • -20 °C ... +150 °C • 150 °C ... +450 °C 	...
Color palettes	14	...
Sensor	Uncooled VOx microbolometer 1/2.8 " Progressive Scan Exmor CMOS	1/2.7 " Progressive Scan CMOS
Matrix size	160 x 120 px 2.1 Mpx	5.0 Mpx
Scanning system	Progressive	Progressive
Lens	1.0 mm 4 mm	2.8 mm
View angle	<ul style="list-style-type: none"> 56 ° • 86 ° (manufacturer data) • 75 ° (our tests result) 	<ul style="list-style-type: none"> • 96 ° (manufacturer data) • 92 ° (our tests result)
Optical zoom	—	...
Digital zoom	—	...
Min. illumination	0.005 Lux (color) @ F1.8 0.0005 Lux (B/W) @ F1.8	...
Range of IR illumination	35 m	30 m
S/N ratio	> 50 dB (AGC off)	> 50 dB
Resolution	1280 x 960 - 1.3 Mpx , 1280 x 720 - 720p 1920 x 1080 - 1080p 1280 x 720 - 720p 704 x 576 - D1	2592 x 1944 - 5.0 Mpx , 2688 x 1520 - 4.0 Mpx , 2304 x 1296 - 3.0 Mpx , 1920 x 1080 - 1080p , 1280 x 960 - 1.3 Mpx , 1280 x 720 - 720p
Operation modes	Main and sub streams may be in any configuration Firmware 2.622.0000001.7.R, build : 2019-01-04 <ul style="list-style-type: none"> • Main stream : 1280 x 960, 1280 x 720 • Sub stream : 640 x 480, 320 x 240 Main and sub streams may be in any configuration Firmware 2.622.0000001.7.R, build : 2019-01-04 <ul style="list-style-type: none"> • Main stream : 1920 x 1080, 1280 x 720, 704 x 576 • Sub stream : 704 x 576, 353 x 288 	...
Standard	TCP/IP, CVBS	TCP/IP
Video output	CVBS - 1 Vpp / 75 Ω, BNC	...
RS-485 interface	✓	—
Memory card slot	Micro SD memory cards up to 128GB support (possible local recording)	Micro SD memory cards up to 128GB support (possible local recording)
Image compression method	H.264 / MJPEG	H.265+ / H.265 / H.264+ / H.264 / MJPEG
Alarm inputs / outputs	2 / 1	—
Audio	<ul style="list-style-type: none"> • External microphone input • Audio output 	—
Bitrate	640 ... 8192 kbps - H.264	32 ... 10240 kbps - H.264 12 ... 8448 kbps - H.265
Main stream frame rate	25 fps @ 1280 x 960 25 fps @ 1080p	15 fps @ 2592 x 1944 25 fps @ 2304 x 1296
Network interface	10/100 Base-T (RJ-45)	10/100 Base-T (RJ-45)

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Network protocols	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP, IP Filter, QoS, Bonjour, IEEE 802.1x	HTTP, HTTPS, TCP, ARP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DNS, DDNS, PPPoE, IPv4/IPv6, QoS, UPnP, NTP, Bonjour, IEEE 802.1x, Multicast, ICMP, IGMP
WEB Server	Built-in, NVR compliance	Built-in
Max. number of on-line users	20	20
ONVIF	16.12	16.12
Mobile phones support	Port 37777 • 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	192.168.1.108	192.168.1.108
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
Vandal-proof	...	IK10
Web browser access ports	80, 37777	80, 37777
PC client access ports	37777	37777
Mobile client access ports	37777	37777
Port ONVIF	80	80
RTSP URL	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"> • The possibility of overlapping the image from a thermal imaging camera in a classic image • 3D-DNR - Digital Noise Reduction • ROI - improve the quality of selected parts of image • WDR - Wide Dynamic Range • F-DNR (Defog) - Reduction of image noise caused by precipitation • PIP - Picture In Picture • IVS analysis : crossing the line (tripwire), intrusion, abandoned/missing object, object detection (people, vehicle), fire detection - The IVS analysis functions can be defined independently for the thermal imaging camera and the vision camera • Audio detection • Motion Detection • Configurable Privacy Zones • ICR - Movable InfraRed filter • BLC/HLC - Back Light / High Light Compensation • AGC - Automatic Gain Control • Sharpness - sharper image outlines • Mirror - Mirror image • Day/Night mode (color/b&w/auto) 	<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 • D-ZOOM - Digital Zoom • Mirror - Mirror image • Intelligent image analysis : crossing the line (tripwire), intrusion
Power supply	12 V DC / 1 A (power adapter included)	• PoE (802.3af), • 12 V DC / 350 mA
Power consumption	≤ 12 W	< 4.2 W
Housing	Compact - Metal	Dome - Metal
Color	White	White
"Index of Protection"	IP67	IP67
Operation temp	-30 °C ... 60 °C	-30 °C ... 60 °C
Weight	0.92 kg	0.34 kg
Dimensions	239 x 90 x 90 mm	Ø 110 x 81 mm
Supported languages	English, French, Spanish, Italian	English, Polish
Manufacturer / Brand	DAHUA	DAHUA
Guarantee	3 years	3 years

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