




	POE SWITCH WITH BUFFERED POWER SUPPLY IPUPS-5-11-E 5-PORT ATTE	SWITCH POE IP-8-20-H 8-PORT ATTE	IP HYBRID THERMAL IMAGING CAMERA TPC-BF2241-B7F8-S2 7.0 mm - 960p, 8.0 mm - 4 Mpx DAHUA
			
	177.20 EUR 177.20 EUR	301.88 EUR 301.88 EUR	1995.16 EUR 1995.16 EUR
Pixel pitch	...	...	12 µm
Thermal sensitivity (NETD)	...	...	< 40 mK @ F1.0
LAN ports	<ul style="list-style-type: none"> • 1 x RJ45 10/100 Base-T - Uplink, • 5 x RJ45 10/100 Base-T + PoE (802.3af/at) / Passive PoE 	<ul style="list-style-type: none"> • 2 x RJ45 10/100/1000 Base-TX - Uplink • 8 x RJ45 10/100 Base-TX + PoE (802.3af/at) / Passive PoE 	...
Spectral range	...	...	8 µm ... 14 µm
Color palettes	...	...	18
Management	—	—	...
LED diodes	AC, DC, CHARGING (battery charging), PoE	Power, LAN	...
Transmission speed	<ul style="list-style-type: none"> • 10 / 100 Mbps : 1 x Port Uplink, • 10 / 100 Mbps : 5 x Port LAN & PoE 	<ul style="list-style-type: none"> • 10 / 100 Mbps : 8 LAN & PoE ports • 10 / 100 / 1000 Mbps : 2 Port LAN 	...
Sensor	...	...	Uncooled VOx microbolometer 1/2.7 " Progressive Scan CMOS
Matrix size	...	...	256 x 192 px 4 Mpx
Lens	...	...	7.0 mm 8.0 mm
View angle	...	...	24 ° 33.4 °
Optical zoom	...	...	—
Digital zoom	...	...	—
Min. illumination	...	...	0.05 Lux (color) @ F2.0 0.005 Lux (B/W) @ F2.0
Maximal output power	<ul style="list-style-type: none"> • 40 W @ Passive PoE - LAN1 ... LAN4 ports, • 60 W @ Passive PoE - Port LAN5, • 30 W @ PoE (802.3af/at) - LAN1 ... LAN5 ports 	<ul style="list-style-type: none"> • 40 W @ Passive PoE - 1 ... 8 ports, • 30 W @ PoE (802.3at) - 1 ... 8 ports, • 15.4 W @ PoE (802.3af) - 1 ... 8 ports 	...
Range of IR illumination	...	...	35 m
Maximal total power	60 W	96 W	...
Resolution	...	...	1280 x 960 - 960p , 1024 x 768 px , 640 x 480 px , 256 x 192 px 2336 x 1752 - 4 Mpx , 1920 x 1080 - 1080p 1280 x 720 - 720p 704 x 576 - 4CIF 352 x 288 - CIF

Operation modes	<ul style="list-style-type: none"> Standard : 100 m @ 10/100 Mb/s - LAN1 ... LAN6 ports Long Range : 280 m @ 10 Mb/s - LAN1 ... LAN4 ports ; 100 m @ 10/100 Mb/s - LAN5, LAN6 ports	...	...
Standard	...	...	TCP/IP, CVBS
Video output	...	...	CVBS - 1 Vpp / 75 Ω, BNC
RS-485 interface	...	...	✓
Memory card slot	...	...	Micro SD memory cards up to 256GB support (possible local recording)
Image compression method	...	...	H.265 / H.264 / H.264H / H.264B / MJPEG
Alarm inputs / outputs	...	...	1 / 1
Audio	...	...	<ul style="list-style-type: none"> Audio input Audio output Bi-directional audio streaming support 
Main stream frame rate	...	...	25 fps @ 1280 x 960 25 fps @ 4 Mpx
Network interface	...	...	10/100 Base-T (RJ-45)
Main features	<ul style="list-style-type: none"> The ability to independently turn on and off the PoE power for each of the LAN 1 ... LAN 5 ports The modular design streamlines service tasks and enables quick and easy system expansion The raster system of module assembly facilitates the expansion of the device by further modules Place for battery : 12 V / 18 Ah Battery charging current : 1 A / 2 A - (set with the JP1 jumper) Battery - Protection against reverse polarity connection, Protection against deep discharge of the battery Technical outputs of the OC type signaling loss of voltage at the PSU output (OUF) and loss of voltage in the 230V mains (ACF) PSU thermal protection : 130 °C Overload protection LAN & PoE ports - Short-circuit protection, Overvoltage TAMPER switch indicating open the cover "Index of Protection" : IP20 	<ul style="list-style-type: none"> Pin numbers for RJ-45 connector : 1/2, 3/6 - Wires to data transmission ; 4/5, 7/8 - Power supply Possibility to connecting in cascade Efficiency : 92 % @ 90 W Built-in switching power supply : 48 V DC / 96 W PSU thermal protection Short-circuit protection Overload protection TAMPER switch indicating open the cover The ability to independently turn on and off the PoE power for each of the LAN 1 ... LAN 8 ports Electronic fuse independently for each PoE channel The modular design streamlines service tasks and enables quick and easy system expansion The raster system of module assembly facilitates the expansion of the device by further modules Main cable entries on the back of the enclosure "Index of Protection" : IP20
Network protocols	...	...	HTTPS, HTTP, TCP, ARP, RTSP, RTP, UDP, RTCP, SMTP, FTP, DHCP, DNS, DDNS, PPPoE, IPv4/IPv6, SNMP, QoS, UPnP, NTP
WEB Server	...	...	Built-in, NVR compliance
Max. number of on-line users	...	...	10
ONVIF	...	...	✓
Mobile phones support	...	...	Port 37777 <ul style="list-style-type: none"> Android: Free application DMSS iOS (iPhone): Free application DMSS 



DELTA-OPTI Monika Matysiak / VAT:PL5251295225 / 60-713 Poznań, ul. Graniczna 10
 Tel:+48 61 864 69 60 / GSM:+48 607 60 11 66 / Fax:+48 61 864 69 65 / e-mail: info@delta.poznan.pl
 Monday-Friday: 8.00-19.00 / Saturday: 8.00-14.00

Default IP address	...	...	192.168.1.108
Default admin user / password	...	...	admin / - The administrator password should be set at the first start
Web browser access ports	...	...	80, 37777
PC client access ports	...	...	37777
Mobile client access ports	...	...	37777
Port ONVIF	...	...	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
Main features	...	...	<ul style="list-style-type: none"> • The possibility of overlapping the image from a thermal imaging camera in a classic image - 3 Display modes • PIP - Picture In Picture • D-WDR - Wide Dynamic Range • ROI - improve the quality of selected parts of image • EIS - Electronic Image Stabilization • 2D-DNR, 3D-DNR - Digital Noise Reduction • F-DNR (Defog) - Reduction of image noise caused by precipitation • BLC/HLC - Back Light / High Light Compensation • Day/night mode • ICR - Movable InfraRed filter • AGC - Automatic Gain Control • WB - White Balance (ATW/AWB/manual/indoor/outdoor) • Motion Detection • Intelligent tracking of warmest / coldest point • IVS analysis : crossing the line (tripwire), intrusion, object detection (people, vehicle), fire detection, Smoke detection • Active deterrence function - Light and sound alarm • 6kV protection of the camera and its structure against the effects of lightning • Protection against electrostatic discharge - Contact/Air (ESD/EMP) : 8 / 15 kV
Housing	...	...	Compact - Metal
Color	...	...	White
"Index of Protection"	...	...	IP67
Power supply	190 ... 260 V AC	180 ... 240 V AC - Built-in switching power supply	<ul style="list-style-type: none"> • ePoE, • PoE (802.3af), • 12 V DC / 1 A
Power consumption	...	...	≤ 12 W
Operation temp	...	...	-30 °C ... 60 °C
Weight	2.4 kg	4.33 kg	1.4 kg
Dimensions	325 x 305 x 100 mm	400 x 450 x 140 mm	96 x 104 x 280 mm
Supported languages	...	...	English
Manufacturer / Brand	ATTE	ATTE	DAHUA
Guarantee	3 years	3 years	3 years