

DH-TPC-ACSD8620-B

Thermal Network Anti-corrosion Hybrid Speed Dome Camera



System Overview

Featuring a dual lens speed dome camera, this series provides an all-in-one solution that is especially beneficial for long distance video surveillance in outdoor applications. Together with Dahua Thermal and Starlight technology, the camera's long range capabilities are able to be utilized even at night. The series combines one thermal camera for monitoring in total darkness and one camera with Starlight functionality and a motorized lens for confirming details up close.

Functions

Uncooled Vox Technology

Dahua thermal cameras use uncooled Vox sensor technology. Their small size and better performance make them a cost-effective solution for thermal security.

High Sensitivity

High thermal sensitivity (<40mK) allows cameras to capture more image details and temperature difference information.

Fire Detection & Alarm

With built-in fire detection functionality, the camera has the ability to detect fires from long range. Because thermal cameras are sensitive to temperature, they provide higher fire detection accuracy than standard cameras, making them particularly fit for applications such as forest fire prevention.

Intelligent Video System (IVS)

IVS is a built-in video analytics algorithm that delivers intelligent functions to monitor a scene for tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area.

- 640x512 VOx uncooled thermal sensor technology
- · Athermalized Lens(thermal), Focus-free
- 1/1.9" 2Megapixel progressive scan Sony CMOS
- Powerful 30x optical zoom
- · Support fire detection & alarm
- Max 240°/s pan speed, 360° endless pan rotation
- · Up to 300 presets, 5 auto scan, 8 tour, 5 pattern
- \cdot 7/2 alarm in/out
- · Micro SD memory, 256GB
- · Anti-corrosion/NEMA 4X, IP66



Auto-tracking

The camera supports auto-tracking. The tracking action can be triggered manually or automatically by defined rules. Once rules are triggered, the camera can zoom in and track the defined target automatically.

Environmental

With a temperature range of-40 °C to +70 °C (-40 °F to +158 °F), the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP66 rating makes it suitable for demanding outdoor applications. For environments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all times.

Protection

The camera allows for $\pm 15\%$ input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6 kV lightning rating provides effective protection for both the camera and its structure against lightning.



Ultra Series | DH-TPC-ACSD8620-B



Technical Specification

Manual Control Speed

| Thermal Camera | | | |
|--|--|---------------------------------|--|
| Image Sensor | Uncooled VOx Microbolc | ometer | |
| Effective Pixels | 640(H)x512(V) | 640(H)x512(V) | |
| Pixel Size | 17um | | |
| Thermal Sensitivity(NETD) | <40mK@f/1.0 | | |
| Spectral Range | 7~14um | 7~14um | |
| Image Setting | Brightness/Sharpness/ROI/AGC/FFC/3D DNR | | |
| Color Palettes | 14(Whitehot/Blackhot/Ironrow/Icefire/ Fusion/Rainbow/Globow/Iconbow1/ Iconbow2 .etc) | | |
| Thermal Lens | | | |
| Lens Type | Fixed | | |
| Focus Control | Athermalized, Focus-free | | |
| Focal Length | 25mm | 35mm | |
| Angle of View | H:24.6°, V:19.8° | H:17.2°, V:13.8° | |
| Effective Distance① Man(1.8m*0.5m) | D(2):1000m R(3):250m I (4) :125m | D:1300m R:320m I : 160m | |
| Effective Distance Vehicle(2.3m*2.3m) | D:3000m R:720m I :360m | D:4000m R: 1000m I : 500m | |
| Visible Camera | | | |
| Image Sensor | 1/1.9" Sony CMOS | | |
| Effective Pixels | 1944(H)x1092(V) | | |
| Electronic Shutter Speed | 1/1~1/30,000s | | |
| Min. Illumination | 0.001Lux@F1.5(Color), 0.0001Lux@F1.5(B/W) | | |
| S/N Ratio | More than 55dB | | |
| IR Distance | 150m (492ft) | | |
| IR On/Off Control | Auto / Manual | | |
| IR LEDs | 4 | | |
| Visible Lens | | | |
| Focal Length | 6mm~180mm | | |
| Max Aperture | F1.5 ~ F4.3 | | |
| Angle of View | H: 59° ~ 2.4° | | |
| Optical Zoom | 30x | | |
| Focus Control | Auto / Manual | | |
| Close Focus Distance | 100mm~ 1000mm (0.33ft~3.28ft) | | |
| PTZ | | | |
| Pan/Tilt Range | Pan: 0° ~ 360° endless;Tilt:-10° ~ 90° | | |
| | | | |

Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s

| Preset SpeedPan: 0.1" ~240" /s ;Tilt: 0.1" ~200" /sPreset300Preset300PresetS Auto Scan, 8 Tour, 5 Pattern, Auto PanSpeed SetupHuman-oriented focal length/ speed adaptationPower Up ActionAuto restore to previous PTZ and lens status after power failureIdle MotionActivate Preset/ Scan/ Tou/ Pattern if there is no command in the specified periodProtocolDH-SD, Pelco-P/D (Auto recognition)VicleOTour Pattern if there is 1280x1024(default) / 720P @1~25/30fps Visible: 1280x1024(default) / 720P @1~25/30fps Visible: 1280x1024(default) / 720P @1~25/30fps Visible: 1280x1024(default) / 720P @1~25/30fps Visible: CIF(default) / 101 °1~25/30fpsBit Rate ControlCBR / VBRBit RateH.264 · 640 ~8192KbpsDay/NightAuto(CR) / Color / B/WBLC ModeBLC / HLC / WDRWhite BalanceOff / On (4 zone, Rectangle)Region of InterestOff / On (4 zone)Electronic Image Stabilization (EIS)NADigital Zoom24xFlip180°IntrorOff / On (4 area, Rectangle)AutoioOff / On (4 area, Rectangle)AutoioJo (14 on (4 area, Rectangle)AutoioTipwire, Intrusion, Object Abandoned/Missing Advanced Intelligent FunctionsJose ReductionG11/ AG.7111Mu / AACDirectionTipwire, Intrusion, Object Abandoned/MissingAdvanced Intelligent FunctionsFire detection & alarmTracking Trigger KventNA | | |
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| IVS Tripwire, Intrusion, Object Abandoned/Missing Advanced Intelligent Functions Fire detection & alarm Tracking Trigger Mode NA | Compression | G.711A / G.711Mu / AAC |
| Advanced Intelligent Functions Fire detection & alarm Tracking Trigger Mode NA | Intelligence | |
| Tracking Trigger Mode NA | IVS | Tripwire, Intrusion, Object Abandoned/Missing |
| | Advanced Intelligent Functions | Fire detection & alarm |
| Tracking Trigger Event NA | Tracking Trigger Mode | NA |
| | Tracking Trigger Event | NA |

Ultra Series | DH-TPC-ACSD8620-B



| Network | |
|---------------------|--|
| Ethernet | RJ-45 (10/100Base-T) |
| Protocol | IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE, ONVIF |
| Interoperability | ONVIF Profile S&G, PSIA, CGI |
| Streaming Method | Unicast / Multicast |
| Max. User Access | 10 Users / 20 Users |
| Edge Storage | Micro SD (256GB) Memory status display (Normal / Error / Active / Formatting / Lock), NAS (Network Attached Storage), Local PC for instant recording |
| Web Viewer | <ie11, <chrome45,="" <firefox52<="" td=""></ie11,> |
| Management Software | Smart PSS, DSS |
| Smart Phone | Android, los |
| Certifications | |
| Certification | CE (EN 60950:2000), FCC (FCC Part 15 SubpartB), NEMA 4X |
| Interface | |
| Video Interface | 1.0Vp-p/75Ω, PAL / NTSC (HDCVI Optional) |
| Audio Interface | Input/Output 1 Input / 1 Output |
| RS485 | Support |
| Alarm | 7/2 In/Out |
| Electrical | |
| Power Supply | AC 24V/3A±15% |
| Power Consumption | 24W, Max. 38W (Heater, LEDs on) |
| Environmental | |
| Operating Condition | -40°C $^{\sim}$ +70°C (-40°F $^{\sim}$ +158°F) / Less than 95% RH * Start up should be done at above-40°C (-40°F) |
| Strorage Conditions | -40°C $^{\sim}$ +70°C (-40°F $^{\sim}$ +158°F)) / Less than 95% RH |
| Ingress Protection | IP66 |
| Construction | |
| Casing | Metal |
| Dimensions | Ф240mm x 382mm (Ф9.45" x 15.04") |
| Net Weight | 6.8Kg (14.99 lb) |
| | |

Ordering Information

| Туре | Part Number | Description |
|---------------------|--|--|
| DH-TPC- ACSD8620 | DH-TPC-ACSD8620P-B25Z30 DH-TPC-ACSD8620N-B25Z30 | Thermal: 640x512 25mm lens Visible: 2MP 30X |
| | DH-TPC-ACSD8620P-B35Z30 DH-TPC-ACSD8620N-B35Z30 | Thermal: 640x512 35mm lens Visible: 2MP 30X |

Accessories

Included:

Optional:







PFA111 Mount Adapter

AC24V/3A Power Supply

PFB303WA Wall Mount





PFB300CA

Ceiling Mount



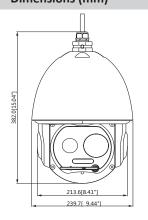


PFA120A Junction Box

Dimensions (mm)

PFA140A

Power box





Gross Weight Note:

1Effective distance values shown are nominal values and should be used as estimates

(1) Effective distance values shown are nominal values and should be only. Exact value calculations depend on a wide variety of conditions.
(2) D:Detection Distance
(3) R: Recognition Distance
(4) I : Identification Distance

9.5Kg (20.94 lb)





Mounting Type

| Ceiling Mount | Junction Mount |
|-----------------------------|-----------------------------|
| PFA111 + PFB300CA | PFA111 + PFB303WA + PFA120A |
| | |
| Power Box Mount | Pole Mount |
| PFA111 + PFB303WA + PFA140A | PFA111 + PFB303WA + PFA150 |
| | |
| Corner Mount | Parapet Mount |
| PFA111 + PFB303WA + PFA151 | PFA111 + PFB303S |
| | |