

HP-BTVC Series

T-Shape Thermal Security Camera



*The picture is for reference only, the appearance of the product is subject to the actual production

System Overview

This series Long Range Thermal Imaging Camera products are based on the latest 7th generation uncooled infrared technology and with continuous zoom infrared optical technology. It also equipped with high resolution daylight camera with defog function for long distance daytime details observation. Anti-shake/shock for tank, jeep, military vehicle mounted application.

Technical Specification

Thermal Camera

Image Sensor	Vox Detector
Effective Pixels	640(H)x512(V)/ 384(H)x288(V)
Pixel Size	12/17μm
Thermal Sensitivity (NETD)	≤40mK@f/4.0
Spectral Range	7 ~ 14μm
SDE	Support SDE digital image processing
Pseudo Color	16 pseudo color and B/W, B/W inverse
AGC	Support
Digital Zoom	8X
Strong Light Protect	Support
Temp Correction	Thermal imaging clarity is not affected by temperature
Scene mode	Support multi-configuration scenarios
Lens Servo	Support lens preset, focal length return and location
Azimuth Information	Support angle real-time return and positioning
Parameter Setting	OSD Menu Remote Call Operations.
Life Index Recording	Working/shutter times, ambient/sensor temperature

- 384x288, 640x512, 1280x1024 thermal sensor
- 20/50/75/100mm thermal lens
- 30x/36X/40X CCTV lens with 16X digital zoom
- NETD 40mk enhance the imaging details
- IP66 and - 40 °C low temperature resistance

Thermal Lens

Focal Lens	20mm;50mm;75mm;25~75mm; 100mm
FOV (384x288, 17μm)	20mm: 18.5°×13.9° 50mm: 5.3°× 4.0° 75mm: 18.5°×13.9° 25~75mm: 14.8°×11°~4.9°×3.7° 100mm: 3.7°×2.8°
FOV (640x512, 17μm)	20mm: 30.4°×23° 50mm: 12°×9° 75mm: 8°×6° 25~75mm: 24°×18°~8°×6° 100mm: 6.2°×5.0°
Effective Distance (Vehicle: 2.3x2.3m)	20mm: 1.7km (D); 0.5km (R); 0.2km (I) 50mm: 4.2km (D); 1.2km (R); 0.6km (I) D: Detection R: Recognition I: Identification
Effective Distance (Human: 1.8x0.5m)	20mm: 0.7km (D); 0.3km (R); 0.15km (I) 50mm: 1.6km (D); 0.5km (R); 0.25km (I) 75mm: 2.5km (D); 0.7km (R); 0.35km (I) 100mm: 3.4km (D); 0.9km (R); 0.45km (I)
Fire Detection	20mm: 1km 50mm: 3km 75mm: 4km 100mm: 5km
IVS Range	20mm: 0.7km for vehicle; 0.2km for human 50mm: 1.55km for vehicle; 0.55km for human 75mm: 2.3km for vehicle; 0.8km for human 100mm: 3km for vehicle; 1.1km for human

Visible Camera

Sensor	1/2.8" Star Level CMOS, Integrated ICR Dual Filter D/N Switch
Resolution	1920(H)x1080(V)
Frame Rate	32Kbps~16Mbps, 60Hz
Min. Illumination	0.0005Lux (Color), 0.0001Lux (B/W)
SD Card	Support
Defog	Support SDE digital image processing
BLC/WDR/HLC	Yes
AGC	Support
Digital Zoom	8X

Visible Lens

Focal Lens	4.7~141mm 30X 6.5~240mm 36X 8~320mm 40X
Image Stabilization	Support
Focus Control	Manual/Auto

PTZ

Patrol	6*patrol route, 1* patrol line
Rotation	Pan: 0~360°, tilt: -90~+90°
Speed	Pan: 0.01~100°/S, Tilt: 0.01~60°/S
Preset	255

Interface

Ethernet	RS-485, RS-232, RJ45
Protocol	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE, ONVIF
Video Output	PAL/NTSC
Power	AC12V /DC24V
Compression	H.265 / H.264 / MJPEG

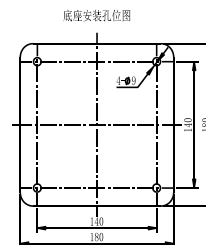
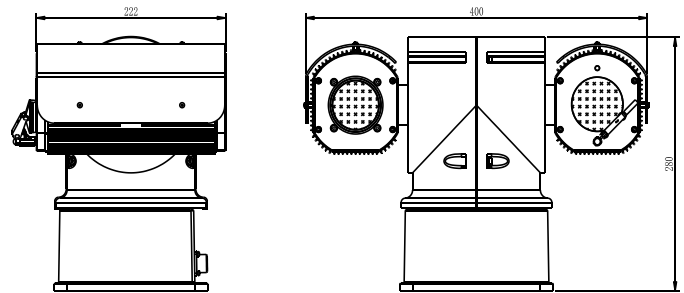
Environmental

Operate Temp	-25℃~+55℃ (-40℃ optional)
Storage Temp	-35℃~+75℃
Humidity	<90%
Ingress Protect	IP66
Housing	PTA t coating, Seawater corrosion resistance
Anti-shake	0.2g (GB/T15211—2013)
Anti-strike	15g (GB/T15211—2013)
Anti-fog/salty	PH 6.5~7.2
Power	50W (Peak)
Weight	8.5kg

Order Information

BTVC4102-1930WZ	Thermal: 20mm, 384x288 Visible: 2mp, 4.7~141mm
BTVC6102-1930WZ	Thermal: 20mm, 640x512 Visible: 2mp, 4.7~141mm
BTVC4105-1930WZ	Thermal: 50mm, 384x288 Visible: 2mp, 4.7~141mm
BTVC6105-1930WZ	Thermal: 50mm, 640x512 Visible: 2mp, 4.7~141mm
BTVC6107-2121WZ	Thermal: 75mm, 640x512 Visible: 2mp, 6.5~240mm
BTVC6307-2132WZ	Thermal: 25~75mm, 640x512 Visible: 2mp, 8~320mm
BTVC61100-2132WZ	Thermal: 100mm, 640x512 Visible: 2mp, 8~320mm

Dimension (mm)



Unit: mm