SmartH Camera

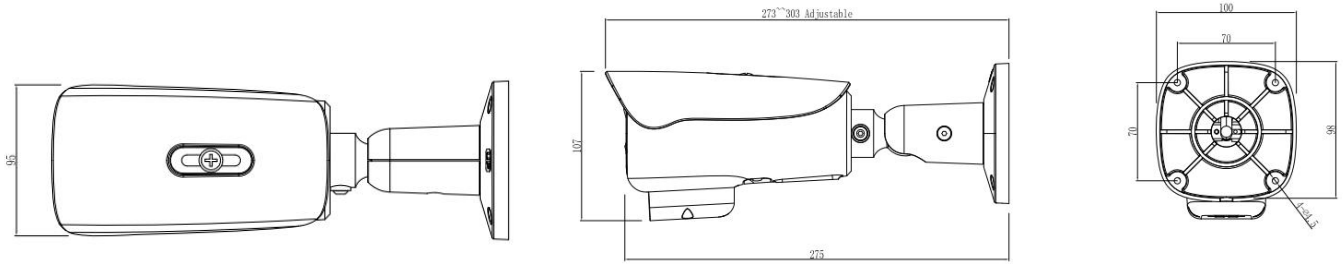## Thermal Network Bullet Camera

Key Features

- Uncooled VOx Micro bolometer with 256×192 resolution

- Thermal: 7mm/10mm fixed lens optional, Visible: 8 mm fixed lens

- Support temperature monitoring and exception alarm

- Support 3 temperature measurement rule types (Spot, Line, Area)

- Support human, vehicle and fire point detection

- Smart events: intrusion, single line crossing, double line crossing, loitering, wrong way, people counting, enter area, leave area

- Image processing technology: DVE, 3D DNR, WDR

- IR distance up to 55m

- Support sound-light alarm

Specification

Thermal Camera		
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays	
Resolution	256×192, Image can be scaled up to 704×576	
Pixel Pitch	12um	
Spectral Range	8~14um	
Thermal Sensitivity (NETD)	< 50mK	
Lens Type	Fixed, F1.0	
Focus Control	Free focus	
Focal Length	7 mm	10 mm
Angle of View	H: 24°, V: 18°	H: 17°, V: 13°
Detection Distance (Humans: 1.8×0.5m)	291m	416m
Detection Distance (Vehicles: 4×1.5m)	894m	1278m
Recognition Distance (Human: 1.8×0.5m)	73m	104m
Recognition Distance (Vehicle 4×1.5m)	224m	319m
Detection Distance (Fire: 0.1×0.1m)	29m	41m
Detection Distance (Fire: 1×1m)	292m	417m

Visible Camera	
Image Sensor	1/2.7" CMOS
Effective Resolution	2880(H)×1620(V)
Shutter Speed	1/5 ~ 1/20,000s
Wide Dynamic Range	True WDR 120dB
Min. Illumination	Color: 0.001Lux @(F1.2, AGC ON) B/W: 0.003Lux @(F1.2, AGC ON)
S/N Ratio	More than 55dB
Focal Length	8mm
Angle of View	H: 40°, V: 20°

Illuminator	
IR Distance	Up to 55m
White Light	Strobe light

Video and Audio	
Main Stream	Visible: 2880×1620, 2560×1440, 2304×1296, 1920×1080, 1280×720 @25/30fps Thermal: D1 (704×576) @25/30fps
Sub Stream	Visible: D1, VGA, 640×360, CIF, QVGA @25/30fps Thermal: CIF, 256×192 @25/30fps
Bit Rate Control	CBR/VBR
Bit Rate	Main Stream: Visible: 100Kbps~12Mbps, Thermal: 100Kbps~6Mbps, Sub Stream: Visible: 10Kbps~6Mbps, Thermal: 10Kbps~1.5Mbps,
Region of Interest	Off / On (8 Zone, Rectangle)
Smart Encode	Support
Audio Compression	G.711: 8kbps, RAW_PCM: 16kbps

Image	
Image Setting	Brightness, Sharpness, Contrast, Saturation
Mirror	Support

Pseudo-color Setting	White-hot/Black-hot/Rainbow/Ironbow etc. up to 17 modes (Thermal)
DVE Image Enhance	Support (Thermal)
Noise Reduction	2D/3D DNR
Privacy Masking	Support
Motion Detection	Support

Smart Function	
Smart Function	Temperature measurement, human detection and vehicle detection
Advanced Intelligence Analysis	Smoker detection, Smoke and Flame detection, fire point detection
Intelligent Analysis	Intrusion, Single line crossing, Double line crossing, Loitering, Wrong way, Enter area, Leave area (these 7 function support accurate detection of people/vehicles) , People counting
Sound-light Alarm	Support white light flashing and horn warning
Temperature Measurement	3 temperature measurement rule types, 20 rules in total, 1 full screen, 19 others (points, areas, line).
Temperature Alarm	Over temperature alarm, Temperature difference alarm
Accuracy	±2℃ / ±2%
Response Time	≤ 30ms
Temperature Measurement Range	-20°C ~ 150°C (-4°F ~ 302°F)

Network	
Protocols	IPv4/IPv6 ,HTTP,RTSP/RTP/RTCP, TCP/UDP, DHCP, DNS, PPPOE, SMTP ,802.1x
Interoperability	ONVIF
Max. User Access	10 Users
Web Viewer	<IE11, Chrome, Firefox, Microsoft Edge
Web Language	English, Chinese, Polish, Italian, Portuguese, Spanish. Russian, French, Czech, Hungarian

Interface	
Network Interface	1 Ethernet (10/100 Base-T) RJ-45 Connector
Audio Interface	1ch input, 1ch output
Built-in Speaker	Support
Alarm Interface	2ch input, 2ch output
RS485	Support
Reset Button	Support
SD Card Slot	Support, up to 256GB

General	
Power Supply	DC12V/DC24V/POE (IEEE 802.3af)
Power Consumption	Max 12W
Working Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Storage Conditions	0 ~ 90% RH
Certifications	CE /FCC
Ingress Protection	IP66
Casing	Metal
Dimensions	303×95×107 mm (11.93 × 3.74× 4.21 inch)
Net Weight	1.35 Kg (2.98 lb)

Dimensions (mm)

Accessories

Optional:

SN-CBK649B
Junction Box

SN-CBK627D
Pole Mount