

# KX-F1459TN2

## Thermal Network Hybrid Bullet Camera



- 640x512 VOx uncooled thermal sensor technology
- Athermalized lens (thermal camera), focus-free
- Support ROI, motion detection, color Palettes
- Support fire detection & alarm
- Built-in 2/2 alarm in/out
- Micro SD memory, IP67



### Technical Specification

General				
Structure	Multi-sensor bullet camera			
Thermal				
Detector Type	Vanadium oxide uncooled focal plane detector			
Effective Pixels	640 × 512			
Pixel Pitch	17μm			
Spectral Range	8μm–14μm			
Thermal Sensitivity (NETD)	≤40mK			
Focal Length	25mm; 35mm; 50mm; 75mm; 100mm			
Field of View	25mm: horizontal: 24.6°; vertical: 19.8° 35mm: horizontal: 17.6°; vertical: 14.1° 50mm: horizontal: 12.4°; vertical: 9.9° 75mm: horizontal: 8.3°; vertical: 6.6° 100mm: horizontal: 6.2°; vertical: 5.0°			
Focus Mode	Manual			
Aperture	25mm/35mm/50mm/75mm: F1.0 100mm: F1.4			
DRI <small>DRI values are based on the reference: human (1.8 m × 0.5 m) vehicle (4 m × 1.4 m)</small>	Lens	Detect	Recognize	Identify
	35mm	vehicle: 2745 m (9005.80 ft) human: 1029 m (3375.94 ft)	vehicle: 686m (2250.63ft) human: 265m (869.41ft)	vehicle: 343m (1125.31 ft) human: 132 m (433.07 ft)
Digital Detail Enhancement (DDE)	Yes			
AGC	Auto; manual			
Noise Reduction	2D NR; 3D NR			
Color Palettes	18 color modes selectable such as Whitehot/Blackhot/Ironrow/Icefire			
Visible				
Image Sensor	1/2.8 inch CMOS			
Effective Pixels	1920 x 1080			
Max. Resolution	2MP			
Horizontal Definition	≥1083TVL			
Min. Illumination	Color: 0.005 Lux@F1.6; black & white: 0.00051 Lux@F1.6; IR light on: 0 Lux			
AGC	Auto; manual			
Noise Reduction	2D NR; 3D NR			
S/N Ratio	>55 dB			
White Balance	Auto/manual/indoor/outdoor/tracking/sodium lamp/natural/street light			
Electronic Defog	Yes			
Electronic Image Stabilization (EIS)	Yes			
Electronic Shutter Speed	1/1s–1/100000s (auto or manual)			
BLC	Yes			
WDR	Yes			
HLC	Yes			
Day/Night	Auto (ICR); color/B/W			
Focus Mode	Auto; semi-auto; manual			
Focal Length	3.95mm–177.7mm			
Field of View	3.95mm:horizontal: 70.3°; vertical: 43.3°; diagonal: 77.92° 177.7mm:horizontal: 1.8°; vertical: 1.0°; diagonal: 2.06°			
DORI Distance	D: 2345 m (7694 ft); O: 938 m (3077 ft); R: 469 m (1539 ft); I: 234 m (768 ft)			
Close Focus Distance	100 mm–1000 mm			

Optical Zoom	45x
Aperture	F1.6–F4.95
IR Fill Light Control	Auto; manual
Max Fill Light Distance	≥100 m

### Audio and Video

Video Compression	H.265; H.264M; H.264H; H.264B; MJPEG
Resolution	Thermal: Main stream 1280 × 1024/1280 × 720/640 × 512, 1280 × 1024 by default; sub stream 640 × 512/320 × 256, 640 × 512 by default Visible: 1080P (1920 × 1080)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/CIF (352 × 288/352 × 240)
Video Frame Rate	50Hz: Main stream (1280 × 1024@25fps/1280 × 720@25fps/640 × 512@25fps), 1280 × 1024@25fps by default; sub stream (640 × 512@25fps/320 × 256@25fps), 640 × 512@25fps by default 60Hz: Main stream (1280 × 1024@30fps/1280 × 720@30fps/640 × 512@30fps), 1280 × 1024@30fps by default; sub stream (640 × 512@30fps/320 × 256@30fps), 640 × 512@30fps by default
Audio Compression	G.711a; G.711mu; AAC; PCM
Image Encoding Format	JPEG

### General Function

Two-way Talk	Yes
Network Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP; QoS; UPnP; NTP
Region of Interest (ROI)	Yes
Edge Storage	FTP; micro SD card (256G, hot plug)
Interoperability	ONVIF; CGI; PSIA; KBVISION SDK
Browser	IE: IE8 and the later, and explorer with IE core Google: 42 and the earlier Firefox: 42 and the earlier Safari: 10 and the earlier
User/Host	20 channels at most (the total bandwidth 64M)
Security	Authorized username and password; attached MAC address; encrypted HTTPS; IEEE 802.1x; controlled network access
User Management	Support 20 users at most and users are classified as two groups--administrator group and user group.
Malfunction Detection	Network disconnection; IP addresses conflict; SD card error (status or storage space);

### Smart Event

General IVS Analytics	Tripwire/intrusion
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### Professional and Intelligent

Fire Detection	Yes
Cold/Hot Spot Trace	Auto tracking of the hottest spot and the coldest spot in the thermal image
IVS Analytics	Tripwire/intrusion

### Port

Network	1 10M/100M Ethernet port (RJ-45)
Alarm Input	2 channels
Alarm Output	2 channels
Audio Input	1 channel
Audio Output	1 channel
RS-485	1 channel

### Power

Power Supply	24V AC/3A±15%, 50/60HZ, PoE + (802.3 at)
Power Consumption	Basic power consumption: 16W (24V AC, LED light off) Max power consumption: 28W (24V AC, LED light on)

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## Environment

Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Operating Humidity	≤95%
Self-adaptive	Auto heating to protect the chip under the cold environment

## Physical Characteristics

Protection Grade	IP67, anti-surge 6KV, anti-elctrostatic 8KV (touched by objects), anti-elctrostatic 15KV (air)
Dimensions	435.6mmx248.4mmx373.5mm (17.15"x9.80"x14.70")
Packaging Dimensions	557mmx442mmx371mm (22.00"x17.40"x14.61")
Net Weight	<9KG (<19.84lb)
Gross Weight	<14KG (<30.86lb)
Power Adaptor	Contained
Lens	Contained

## Dimensions (mm[inch])

