PTEXPNW7-P/I/A/AI
7.5MM AI Thermal Bullet Camera

· 400x300 VOx uncooled thermal sensor technology
· Athermalized Lens (thermal), Focus-free
· Support Fire detection & alarm
· 7.5mm fixed lens
· 2/2 alarm in/out
· Micro SD memory, IP67, PoE, ePoE

Pro Series	40mK °C	Fire Detection
Anlysis	PoE	IP67

System Overview

Thermal cameras are ideal for forestry, border security, and industrial applications. This camera provides an all-in-one solution that is especially beneficial for long distance video surveillance in outdoor applications. Combined with its fixed lens and Thermal technology, the camera's long range capabilities are able to be utilized even at night. This E Series Thermal Network Bullet Camera is equipped with an uncooled VOx Microbolometer sensor with an athermalized lens to produce long-range thermal images. This camera detects rapid rises in temperature over short time periods and issues an alarm for potential fire threats at long distances.

Features

Uncooled VOx Technology
This thermal camera uses uncooled VOx sensor technology. Due to its small size and better performance, the VOx sensor is a cost-effective solution for thermal security.

High Thermal Sensitivity
High thermal sensitivity (<50mK) makes the camera capture more detailed images and temperature difference information.
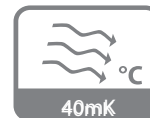
Fire Detection & Alarm
With a built-in Fire detection function, the camera has the ability to detect a fire from a long distance. Because the thermal camera is sensitive to temperature, the accuracy of fire detection will be higher than a visible-light camera.

Intelligent Video System (IVS)
IVS system provides advanced, accurate video analytic for both IP and analog cameras. The IVS engine can track, classify and analyze the behavior of individual or group of objects over long distance to greatly improve parameter security and monitoring efficiency.

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 IP67 rating makes it suitable for demanding outdoor applications.

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

Technical Specification

Thermal Camera

Image Sensor	Uncooled VOx Microbolometer
Effective Pixels	400(H)x300(V)
Pixel Size	17um
Thermal Sensitivity(NETD)	40mK
Spectral Range	8~14um
Image Setting	Brightness/Sharpness/ROI/AGC/FFC/3D DNR
Color Palettes	18(Whitehot/Blackhot/Ironrow/Icefire/ Fusion/Rainbow/Globow/Iconbow1/ Iconbow2 .etc)

Thermal Lens

Lens Type	Fixed/F1.0
Focus Control	Athermalized, Focus-free
Focal Length	7.5mm
Angle of View	H: 53.7° V: 39.7°
Effective Distance Man(1.8m*0.5m)	D: 221m R: 57m I : 28m
Effective Distance Vehicle(4m*1.4m)	D: 490m R: 126m I: 63m

Video

Compression	H.265 / H.264 / MJPEG
Frame Rate	Main Stream: Thermal: 1280x1024 / 720P / 400x300 @25/30fps Sub Stream: Thermal: 640x512 / 400x300 @25/30fps
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 640 ~ 8192Kbps
Motion Detection	Off/On (4 zone, Rectangle)
Region of Interest	Off/On (4 zone)
Electronic Image Stabilization (EIS)	NA
Digital Zoom	4x(19 levels)
Flip	180°
Mirror	Off/On
Privacy Masking	Off/On (4 zone, Rectangle)

Audio

Compression	G.711A / G.711Mu / AAC / PCM

Intelligence

IVS	Tripwire, Intrusion
Advanced Intelligent Functions	Fire Detection & Alarm, Cold/Hot Spot Trace, Human/Vehicle Classification

Network

Ethernet	RJ-45
Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x
Interoperability	ONVIF Profile S & G, API
Streaming Method	Unicast/Multicast
Max. User Access	10 Users/20 Users
Edge Storage	Micro SD (256GB) Memory Staus Display (Normal / Error / Active / Formatting / Lock), NAS (Network Attached Storage), Local PC for instant recording
Web Viewer	>IE8, <Chrome42, <Firefox42
Management Software	SmartPSS, DSS
Smart Phone	Android, iOS

Certifications

Certification	CE (EN 60950: 2000) FCC (FCC Part 15 SubpartB)

Interface

Video Interface	1 Port (CVBS/BNC)
Audio Interface	1/1 In/Out
RS485	Support
Alarm	2/2 In/Out

Electrical

Power Supply	DC 12V/PoE/ePoE
Power Consumption	Max. 13W

Environmental

Operating Condition	-40°C ~ +70°C (-40°F ~ +158°F)/Less than 95% RH * Start up should be done at above-40°C (-40°F)
Storage Conditions	-40°C ~ +70°C (-40°F ~ +158°F)/Less than 95% RH
Ingress Protection	IP67

Construction

Casing	Metal
Dimensions	291mm× 103mm× 97mm (11.46" x 4.06" x 3.82")
Net Weight	1.5Kg (3.31 lb)
Gross Weight	1.9Kg (4.19 lb)

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

Dimensions (mm/inch)

Accessories

Optional:

JBEW-121
Junction Box

LEW-152E
Pole Mount

Junction Mount	Pole Mount
JBEW-121	JBEW-121 + LEW-152E