



NWT-1F-XP

Network Thermal Camera



Key Features:

- 120,000 Resolution Image Sensor
- $\leq 40\text{mK}$ Sensitivity
- 8mm, 15mm, 25mm, 35mm, 50mm Lens Options
- 20 Spot Views / 2 Lines
- 16 Areas of Temperature Detection
- DVE Image Enhancement
- 2 Alarm Inputs, 2 Alarm Outputs
- Intelligent Video Analytics (IVA)
- IP67

Product Overview

Infinity Thermal Cameras allow clients to measure temperature changes on their sites to allow for long distance detection of potential threats and to achieve real-time activation on any potential security breaches on a perimeter. By using heat, not visuals, any potential intruder is potentially picked up as their body or vehicle temperature signatures immediately alter the scene. This range has world-leading features such as PoE and intelligent video analytics techniques.

Features

Multiple Detections

In any scene you can pinpoint on specific areas of interest to monitor even the slightest changes in temperature and receive immediate notifications if an object is potentially a threat.

Intelligent Video Analytics (IVA)

With built-in intelligent video analytics, the camera has the ability to detect and analyze moving objects for improved video surveillance. The camera provides optional standard intelligence at the edge allowing detection of Perimeter, Single Virtual Fences, Double Virtual Fences, Loitering, Multiple Loiterers, Objects Abandoned, Objects Removed, Abnormal Speed, Converse, Illegal Parking, Bad Signal.

Environmental

With a temperature range of -40 °C to +60 ° 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.

A Lens For Any Application

With multiple lens options, clients can have views of great width or incredibly zoomed in. This allows for large areas to be surveyed at once, or for specific areas such on a perimeter for even the slightest movement of temperature changes that may be potential security threats to measure with incredible accuracy and pinpoint precision.

HEVC (H.265)

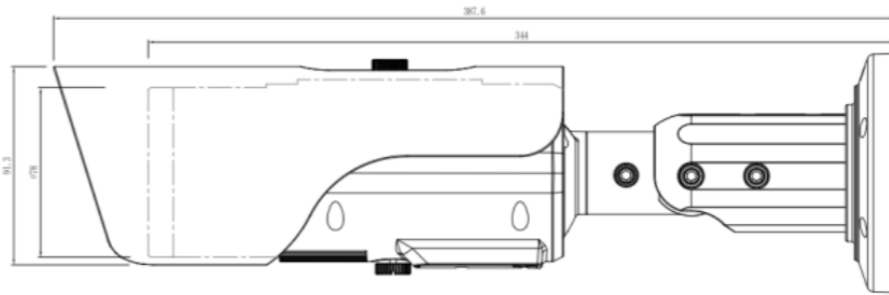
H.265 ITU-T VCEG is a new video coding standard. H.265 Following standard developed around the existing video coding standard H.264, some retain the original technology, while some of the relevant technology to improve the new technology uses advanced technology to improve the relationship between the code stream, encoding quality, and the delay between algorithm complexity, optimize settings specific contents include: Improve compression efficiency, improve the robustness and error recovery capabilities, real-time to reduce the delay, reduce channel acquisition time and a random access delay, reduce complexity.

Technical Specification

Camera					
Detector Type	Uncooled IRFPA Microbolometer				
Effective Pixels	400(H)x300(V)				
Pixel Size	17µm				
NETD Sensitivity	≤40mK @ F1.0 300K				
Spectral Range	8-14µm				
Image Setting	Polarity LUT/ DVE/ Mirror/ FCC/ /3D DNR Brightness/Contrast/ ROI				
Color Palettes	Black-Heat /White-Heat/Rainbow/Iron-Red up to 17 modes				
Lens					
Lens Type	Fixed				
Focus Control	Manual Focus				
Focal Length	8mm	15mm	25mm	35mm	50mm
F Number	F1.0				
Angle of View	H: 68.4° V: 57.1°	H: 39.8° V: 32.3°	H: 24.5° V: 19.7°	H: 17.6° V: 14.1°	H: 12.4° V: 9.9°
Detection / Recognition of Fire (1m x 1m)	235m / 78m	441m / 147m	735m / 245m	1029m / 343m	1471m / 368m
Detection / Recognition of Man (1.8m x 0.5m)	235m / 59m	441m / 110m	735m / 184m	1029m / 257m	1471m / 368m
Detection / Recognition of Vehicle (4m x 1.5m)	722m / 180m	1353m / 338m	2255m / 564m	3137m / 789m	4510m / 1127m
Video					
Compression	H.265, MJPEG				
Max. Resolution	400*300				
Streaming Capability	2 Streams				
Stream / Frame Rate	Stream1: D1 @ 25/30fps Stream2: CIF/QVGA @ 25/30fps				
Bit Rate Control	CBR/VBR				
Bit Rate	500kbps-6000kbps				
Enhancement	DVE Image Enhancement				
Zoom	16x Digital Zoom				
Areas of Interest	8 Rectangular Zones				
Temp Zone	16 Temperature Zones				
Motion Detection	Support				
Privacy Masking	Support				
Alarms	Motion Detection, Disk Alarm, I/O Alarm, Temperature Detection Alarm				
Mirror	Support				

Audio	
Compression	G.711, RAW_PCM
Bit Rate	64Kbps (G.711), 128kbps (RAW_PCM)
Network	
Protocols:	IPv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/RTP, PPPoE, SMTP, DNS, UPnP, FTP, ARP, SNMP
Interoperability	ONVIF
Streaming Method	Unicast
Max. User Access	10 Users
Web Viewer	<IE11, Chrome, Firefox
Management Software	Infinity IMS
Smart Phone	IOS, Android
Intelligence	
IVS	Perimeter, Single Virtual Fences, Double Virtual Fences, Object Abandoned, Object Removed
Temperature Detection	3 Detection Modes (Spot, Line, Area), Over Temperature, Temperature Difference, 20 points / 2 lines / 16 regions rules
Temperature Measuring	2% Measuring Tolerance, -40 °C ~ 60 °C (-40°F ~ 140 °F) Detection Range, Temperature target >5°C, Display absolute temperature; Temperature target ≤5°C, Display relative temperature (temperature difference DEV = highest value - average)
Response Time	Less than 30ms
Interface	
Ethernet	1 Ethernet (10/100 Base-T) RJ-45 Connector
Audio Interface	1x Input, 1x Output
Alarm	2x Input, 2x Output
RS485	Support
BNC Output	Support
Reset Button	Support
Electrical	
Power Supply	DC12V/POE/AC24V
Power Consumption	Max 5W
Operating Temperature	-40°C ~ 60°C
Operating Humidity	Less than 90% RH
Ingress Protection	IP67
Certifications	CE / FCC
Casing	Metal
Dimensions	φ 110x388mm
Net Weight	1900g

Dimensions(mm)



Accessories

Optional:



NWT-JBVF
Junction Box



NWT-PLMVF
Pole Mount

Ordering Information

Camera Lens	Part Code	Description
	NWT-1F-XP8	Thermal: 640x512 8mm Fixed lens
	NWT-1F-XP15	Thermal: 640x512 15mm Fixed lens
	NWT-1F-XP25	Thermal: 640x512 25mm Fixed lens
	NWT-1F-XP35	Thermal: 640x512 35mm Fixed lens
	NWT-1F-XP50	Thermal: 640x512 50mm Fixed lens