



# NWTDL-8FC-aiXP

8MP 4K Intelligent A.I ISP Turret Dome Network Camera



## Key Features:

- 1/2.7" Progressive Scan Starvis Back-Illuminated CMOS
- Fixed 4mm Lens
- 60fps@8MP(3840\*2160)
- Multi Stream Output
- Smart IR Up to 60m & Smart White Light LED Up to 60m
- H.265+ Support; Low bitrate
- ONVIF Profile S / G / T / M
- 3.2T processing power for Video Analytics including: Human detection, Vehicle detection, Line Crossing, Perimeter Intrusion, Face Detection
- Up to 16 simultaneous detections at the same time
- Privacy Masks, Back Light Compensation (BLC) up to 140dB WDR
- IP67 Weather Resistant

## Product Overview

Infinity Network Cameras support the latest H.265+ encoding technology, bringing high efficient video compression and maintaining quality. When compared to older H.265/H.264 or MPEG-4 transmission, it significantly saves network bandwidth and storage. Infinity cameras are energy-saving by design to enhance the surveillance system thanks to sophisticated features that are activated automatically such as Smart IR technology for low light and night time, or PoE so that only a single cable is needed for Power *and* Data. The camera is IP67 weatherproof allowing for either internal or external use.

## Features

### Video Analytics

Get much more than what you see; thanks to Infinity Intelligent Video Analytics! Cameras can provide intelligent detection for specific rules including: Perimeter Detection, Line Crossing, Facial Detection & Facial Recognition, Human Detection and Vehicle Detection.

### Privacy Masks

When used externally it is usually mandated that sensitive areas such as private residences, should not be viewed by cameras thus privacy masks allow a mosaic to be drawn on screen so that any such sensitive areas are not shown and adherence to local laws is maintained.

### Actively Detering

Thanks to dual lighting and audible warning technology with Red & Blue strobe lights and Visible 'White' Light, Infinity cameras can provide crystal clear color images even in the darkest of conditions, complimented by audible sirens whereby the flashing lights and sirens go off when detections occur, resulting in an extra level of deterring potential criminals.

### Back Light Compensation (BLC)

When lighting conditions are extreme such as light sources shone directly at a camera, the image can be severely poor. Infinity BLC allows the camera to automatically adjust its exposure settings to compensate for such scenarios.

### Environmental

With a temperature range of -30 °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.

### Smart Encode (H.265+)

Deliver high quality video without straining the network, Smart Encode H.265+ offers significant quality gains over H.265 / H.264 or MPEG-4 technologies. Reducing network bandwidth and storage without compromising quality of the video allows for significant longer term gains.

### HEVC (H.265+)

H.265+ ITU-T VCEG is a new video coding standard. Following standard developed around the existing video coding standard H.265/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	
Image Sensor	1/2.7" Progressive Scan Sony Starvis2 CMOS
Effective Pixels	3840(H)x2160(V)
Scanning System	Progressive
Electronic Shutter	1/5-1/20000s
Min. illumination	Color:0.0001Lux@(F1.0,AGC ON) , B/W:0Lux@(IR LED ON)
S/N Ratio	60dB
Smart Light Range	IR up to 60m & White Light 4000K Up to 60m, Red & Blue flashing strobe light
IR On/Off Control	Auto/ Manual
LEDs	2pcs IR & 2pcs White Light
Lens	
Lens Type	Fixed
Iris	Fixed Iris
Focal Length	4mm
F Number	F1.0
Angle of View	128° Diagonal FOV
Focus Control	Fixed
Video	
Compression	H.265+ / H.264+ / H.265 / H.264 / MJPEG
Max. Resolution	2160P(3840x2160)
Streaming Capability	Up to 5 streams
Stream / Frame Rate	Main Streams: 3840x2160 / 3200x1600 / 2560x1440 / 1920x1080 / 1280x720 @ 60fps or @ 25/30fps Sub Streams: 1280x720/VGA @ 25/30fps Third Streams: 1280x720/VGA @ 25/30fps
Bit Rate Control	CBR/VBR
Day/Night	ICR
Image Settings	Rotation, Saturation, Contrast, Hue, Sharpness
Enhancement	BLC, 140dB WDR, Defog, Saturation, Brightness, Contrast, Sharpness, 3D DNR, White Balance, FLK (Flicker Control), Distortion, HLC, Corridor Mode
Gain Control	Support
Video Output	N/A
Image Stabilize	N/A
Smart IR	Support
Mirror	Support
Region of Interest	Support
Privacy Masking	Support

Audio	
Compression	G.711A/U
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 S / G / T / M
Streaming Method	Unicast
Max. User Access	10 Users
Web Viewer	<IE11, Chrome, Firefox
Management Software	Infinity VMS Lite
Smart Phone	IOS, Android
Intelligence	
Detections	Video Motion Detection (VMD), Video Tamper
VCA Power	3.2T Processing Power; up to 16 concurrent detections
Intelligent Detections	Human Detection, Vehicle Detection, Intrusion Detection, Line Crossing, People Gathering, Loiter Detection, Entering/Leaving an Area, Facial Detection, Illegal Parking, License Plate Detection, Object Counting (based on Human/Vehicle Line Crossing), Moving Object Detection, Heat Map
Interface	
Ethernet	1 Ethernet (10/100 Base-T) RJ-45 Connector
Audio Interface	1x Built-in Mic (optional), 1x Speaker, 1x Audio in / 1x Audio out
Alarm	1x Alarm in / 1x Alarm out
RS485	N/A
BNC Output	N/A
Reset Button	Support
Edge Storage	1x Micro SD Card Support up to 1TB
Electrical	
Power Supply	DC12V/POE
Power Consumption	≤ 8W
Operating Temperature	-30°C ~ 60°C (-22°F ~ 140°F)
Operating Humidity	Less than 90% RH
Ingress Protection	IP67
Certifications	CE / FCC
Casing	Metal
Weight & Dimensions	Circa 700g // Ø 115mm x 113mm