



# NWTDER-8FC-XP

8MP 4K Entry Range All Color Turret Dome Network Camera



## Key Features:

- 1/2.7" Progressive Scan 5MP CMOS
- Fixed 2.8mm or 3.6mm Lens
- 25fps/30fps@8MP(3840\*2160)
- Multi Stream Output
- Smart IR Up to 50m and Smart White Light Up to 40m
- H.265 Support; Low bitrate
- ONVIF Profile S, T, M
- Video Motion Detection, Human Detection, Intrusion Detection
- Privacy Masks, Back Light Compensation (BLC), DWDR
- 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.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

### 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.

### Black and White.....AND Color!

Thanks to dual lighting technology composed of Infrared (IR) and Visible 'White' Light, Infinity cameras can provide fantastic Black and White (B/W) nighttime images but also crystal clear color images even in the darkest of conditions.

### 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 an operating temperature range of -30 °C to +60 °C (-22 °F to +140 °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.

### Smart Encode (H.265)

Deliver high quality video without straining the network, Smart Encode H.265 offers significant quality gains over 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. 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	
Image Sensor	1/2.7" Progressive Scan CMOS
Effective Pixels	3840(H)×2160(V)
Scanning System	Progressive
Electronic Shutter	1/5-1/20000s
Min. illumination	Color:0.01Lux@(F1.2,AGC ON) , B/W:0Lux@(IR LED ON)
S/N Ratio	60dB
Smart Light Range	IR up to 50m & White Light 4000K Up to 40m
IR On/Off Control	Auto/ Manual
LEDs	2pcs IR & 2pcs White Light
Lens	
Lens Type	Fixed
Iris	Fixed Iris
Focal Length	2.8mm or 3.6mm
F Number	F1.6
Angle of View	114° / 105°
Focus Control	Fixed
Close Focus Distance	0.5m
Video	
Compression	H.265,H.264/MJPEG
Max. Resolution	2160P(3840×2160)
Streaming Capability	Up to 5 streams
Stream / Frame Rate	Main Streams: 3840x2160/1440P/1080P @25/30fps Sub Streams: VGA/CIF/QVGA @ 25/30fps Third Stream: QVGA @ 25/30fps
Bit Rate Control	CBR/VBR
Day/Night	ICR (Color, B/W)
Image Settings	Rotation, Saturation, Contrast, Hue, Sharpness
Enhancement	BLC, DWDR, 3D DNR, Anti Flicker, HLC, Anti Distortion
Gain Control	Auto
Video Output	N/A
Image Stabilize	N/A
Smart IR	Support
Mirror	Support

Region of Interest	N/A
Motion Detection	VMD, Human Detection, Intrusion Detection
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/T/M
Streaming Method	Unicast
Max. User Access	10 Users
Web Viewer	<IE11, Chrome, Firefox
Management Software	Infinity VMS Lite
Smart Phone	IOS, Android
Interface	
Ethernet	1 Ethernet (10/100 Base-T) RJ-45 Connector
Audio Interface	N/A
Alarm	N/A
RS485	N/A
BNC Output	N/A
Reset Button	Optional
Edge Storage	N/A
Electrical	
Power Supply	DC12V/POE
Power Consumption	≤ 5W
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	290g // Ø110mm x 95mm