

NCF-1211-RM

Vandal-resistant 12MP with 360° panoramic view, IR and deep learning



Main Features

- 7 dewarped view modes including 180°/360°overview
- Extreme WDR 140dB
- Analytics with deep learning minimize false alarms (ONVIF® Profile M)
- Edge storage enables failover recording (ONVIF® Profile G)
- Easy, flexible installation with 3-axis adjustment
- IP67 weatherproof, IK10 vandal resistance
- NDAA Compliance



Product Overview

The fisheye camera provides seven dewarped view modes, including 180° and 360° panoramic views directly from the camera. Powerful deep learning-based edge analytics detect critical events for real-time response. With audio and I/O connectivity for extended system integration, it delivers next-generation proactive security. Featuring LightSolver II™, WDR and Smart IR+, it captures clear, detailed video even in challenging lighting conditions or complete darkness. Robust IP67 and IK10 ratings for deployment in high-risk, vandal-prone environments including correctional facilities, perimeter security zones, defense installations, and critical infrastructure sites.

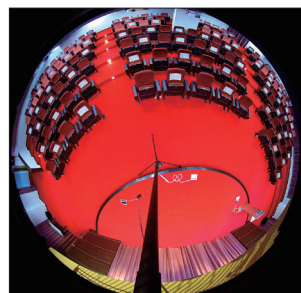
H.265

H.265 is the latest next generation of video compression technology. This technology could reduce bandwidth to perform excellent video compression rate with lower storage consumption. This new technology can save over 50% data flowloading. This helps to enhance IP camera total system performance dramatically.



Edge Dewarping

Edge dewarping engine enables the fisheye camera to dewarp fisheye images by camera rather than backend system. This reduces the integration effort for backend system and also enhances the flexibility of usage.



Next-generation edge analytics

The camera performs real-time deep learning-based detection and classification while filtering out irrelevant motion. This reduces false alarms and generates actionable metadata for faster investigations and smarter automation. Edge processing also reduces bandwidth usage and improves response times, creating an efficient platform for intelligent security systems and future AI-driven applications.

Specifications

Camera General Information

Image Sensor	1/1.6" 12MP CMOS Progressive Sensor
Resolution	Up to 30fps 12MP (3520x3520)
Lens	12MP Fixed-Iris Lens 1.95mm, F2.2
Field of View	
Day and Night	True Day / Night
Smart IR	Effective distance is up to 20M (6.51ft)
WDR	Support
Minimum Illumination	Color 0.15 lux B/W 0 lux
Image Enhance	Brightness, Contrast, Saturation, Sharpness, Mirror, Flip, Corridor, Anti-Flicker, BLC, AWB
Defog	Support
Analytics (In-house VA)	Line Crossing, Object-Counting, Zone Object-Counting, Zone Intrusion, Loitering, Wrong Way, Left, Remove

Video and Audio

Video Compression	H.265 / H.264 / M-JPEG
Smart Compression	GOP
Video Resolution	Overview Fisheye Main (H.264), 3520x3520@30fps Mode Ceiling: Fisheye (Overview) + Quad Overview : Main (H.264) , 2992x2992@30fps Quad : Main (H.264) , 2560x2560@30fps Mode Wall: Fisheye (Overview) + Panorama (180 degree) Overview : Main (H.264) , 2992x2992@30fps 180 Panorama : Main (H.264) , 2560x1440@30fps Mode Ceiling: Fisheye (Overview) + Panorama (360 degree) Overview : Main (H.264) , 2560x2560@30fps 360 Panorama : Main (H.264) , 3840x960@30fps
Video Quality	VBR/CBR
Frame rate (Max Resolution)	Up to 30fps
Frame rate (Multi-Stream)	Up to 30fps 12MP + 30fps 9M + 30fps 5p
Audio Streaming	Two-way audio supported
Audio Compression	G.711 8KHz/8 bits (A-Law/U-Law)

Network

Interface	10/100/1000 Mbps Ethernet, RJ45
Browser	Edge, Chrome, Firefox, Safari
ONVIF	ONVIF S, G, T, M

Event Management

Event Trigger	Motion detection, Tampering Alarm, Alarm In
Notifications	Send message via e-mail/ Record to FTP/NAS/ SD card, record JPG/mp4

General

Power	PoE+ IEEE 802.3at, DC 12V
Power Consumption	PoE :15.1W (IR ON), 7.6W (IR OFF) DC12V : 14.7W (IR ON), 7.2W (IR OFF)
Audio In/Out Port	On dock, Terminal Block
DI/DO	DI x 1; DO x 1
Micro SD Card Slot	microSDXC up to 1.5TB
Operating Temperature	-40°C (-40°F) to 40°C (104°F) (IR on) -40°C (-40°F) to 50°C (131°F) (IR off)
Storage Temperature	-40°C (-40°F) to 60°C (140°F)
Humidity	10% to 90% RH(non-condensing)
Regulation	CE/ FCC Class A UL (Request by customers)
Waterproof	IP67
Vandal Resistant	IK10
Application	SDK available for application development

Packaging Information

Weight	850g
Dimension	Ø150mm x H 65mm

Dimension Drawing

