

- ▶ Deep Neural Network Accelerated Engine
- ▶ 3-axis adjustable
- ▶ High Dynamic Range (HDR)
- ▶ Audio codec for superb audio quality



3 Axis Gimbal

N2-1's usability is enhanced by adopting a small yet robust 3 axis gimbal design. The lens can be adjusted to desired angle, so even when the camera has to be installed at unfavorable position, ideal field of view can be captured by re-positioning the lens.



HDR Engine

N2-1 utilizes the state of the art image processing technology, providing up to 5 mega pixel, high quality HDR video. Its HDR capability captures more image detail under challenging light conditions, such as entrance area, warehouse loading bay, and parking lot.



Features

- Multiple Progressive Scan CMOS Sensor support up to 5M Resolution
- Multi Exposure HDR
- Multi Codec support (H.265 / H.264 / MJPEG)
- Low Latency Streaming
- Quad Streams support
- 3D Motion Compensated Noise Reduction (MCTF)
- Smart Event function
 - External Input/Manual Trigger
 - Motion Detection/Periodical Event
 - Network Failure Detection/Audio Detection
- Deep Neural Network Accelerated Engine
 - Face/LPR Detection and Recognition
 - Object Classification and Recognition
 - People Detection and Tracking
- Text Overlay and Privacy Masks
- Micro SD/SDHC/SDXC Card support
- ONVIF Profile S/G/T/M support
- Weatherproof (IP66) *

*optional

Custom Specification (Default)

OmniVision 5M		
Image Sensor	OmniVision 5M 1/2.7" Progressive CMOS	
Effective Pixels	HxV = 2720x1976 (5M)	
Pixel Size	2.0 μm	
Frame Rate (Maximum)	H.265	HDR 5M @30fps + 720p @30fps
	H.264	HDR 5M @30fps + 720p @30fps
	MJPEG	1080p @30fps
Lens : Default		
Minimum Illumination	Color	0.172 lux
	B/W	0.036 lux
Lens	Type	F2.0
	Focal Length	2.8mm
	Horizontal FOV	108.3°
	Vertical FOV	76.5°

Common Specification

Camera	
Day and Night	Automatically removable IR-cut filter
Shutter Time	1~1/10K sec.
HDR	Yes
Zoom	Digital zoom 10x
Image Settings	Color, Brightness, Sharpness, Contrast White Balance, Exposure Control 2DNR, 3DNR, NR by Motion Masking, Text Overlay
Image Rotation	90°, 180°, 270° rotation
Video Codec	
Compression	H.265/H.264/MJPEG
Streaming	Up to 4 individually configurable streams in H.265/H.264/MJPEG Configurable resolution/frame rate/bandwidth /VBR/CBR in H.265/H.264
Audio Codec	
Compression	G.711 / G.726 / LPCM
Streaming	2 way
Audio Input	Line in and Microphone built in*
Audio Output	Line out and Speaker built in*
Network	
Interface	10/100Mbps Ethernet
Security	User Authentication/HTTPS/IP Filter/IEEE 802.1x
Supported Protocols	ARP, PPPoE, IPv4/v6, ICMP, IGMP, QoS, TCP, UDP, DHCP, UPnP, SNMP, SMTP, RTP, RTSP, RTSPS, HTTP, HTTPS, FTP, NTP, DDNS, LLDP, RTMP, SRTP
ONVIF	Profile S / G / T / M conformant
System Integration	
Event Triggers	External Input, Analytics, Network Failure Detection, Periodical Event, Manual Trigger
Event Actions	External output Activation Video and audio recording to cloud storage local storage File Upload : HTTP, FTP, email Notification

*optional

Intelligent Video Analytics	
General Analytics	Motion Detection/Tampering/Audio detection
DNN Analytics	Face Detection/Tracking/Recognition
	LPR Detection/Recognition
	People Counting
	Human/Vehicle Classification
	Object Classification/Recognition

General	
Casing	Plastic
Power	PoE IEEE802.3af, class 0, max 3.27 watt DC12V, max 2.76 watt
Connectors	RJ45
	Alarm in x1, Alarm out x1, Terminal Block
	DC12V Terminal Block
	Audio in Terminal Block
	Audio out Terminal Block
Storage	Support for microSD/microSDHC/microSDXC card Support for recording to NAS
Operating Conditions	-30°C~55°C 10%~90%, No Condensation
Storage Conditions	-20°C~70°C
Approvals	EMC CE / FCC Environment IP66*
Dimensions	Ø105x52 mm
Weight	200 g

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