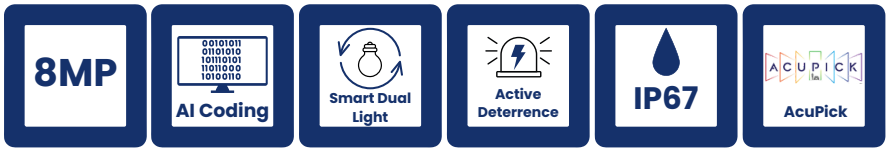
DNC8TDAI3in1-FC-ADv5

Key Features



- 8MP 1/2.7" CMOS image sensor, low luminance and high definition image.
- Outputs max. 8MP (3840 x 2160)@25/30fps
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light and IR LED, the max. IR illumination distance is 30m and warm distance is 30m.
- ROI, Smart H.264+, Smart H.265+, AI H.264, AI H.265, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, Digital Watermarking, applicable to various monitoring scenes.
- Intelligent Monitoring: Intrusion, Tripwire (the two functions support the classification and accurate detection of human and vehicle)
- Abnormality Detection: Motion Detection, Privacy Masking, Scene Changing, Audio Detection, no SD card, SD card full, SD card error, network disconnection, IP Conflict, Illegal Access and Voltage Detection.
- Alarm: 1 in, 1 out. Audio: 1 in, 1 out. Supports max. 256G Micro SD card, built-in Dual Mic, 1-Channel Speaker, supports two-way talk.
- 12 VDC/PoE power supply.
- IP67 protection.
- Sound and light alarm (Red/Blue lights)
- SMD 4.0
- Supports AI SSA and one-tap arming/disarming.
- SMD area can be set in warm light areas that support triggering alarms.

Specifications

Camera	DNC8TDAI3in1-FC-ADv5
Image Sensor	1/2.7" CMOS
Max. Resolution	3840 (H) x 2160 (V)
ROM	256MB
RAM	2G
Scanning System	Progressive
Electronic Shutter Speed	Auto, manual, 1/3 ~ 1/100,000s
Min. Illumination	0.004 Lux@F1.0 (Color, 30 IRE) 0.0004 Lux@F1.0 (B/W, 30 IRE) 0 Lux (Illuminator On)
S/N Ratio	>56dB
Illumination Distance	Up to 30m (98.43ft) (IR) Up to 30m (98.43ft) (Warm Light)
Illuminator On/Off Control	Auto, Manual
Illuminator Number	1 (IR LED), 1 (Warm Light)
Angle Adjustment	Pan: 0° ~ 360° Tilt: 0° ~ 78° Rotation: 0° ~ 360°
Lens	
Lens Type	Fixed-Focal
Lens Mount	M12
Focal Length	2.8mm, 3.6mm
Max. Aperture	F1.0
Field of View	2.8mm: Horizontal: 106°, Vertical: 55°, Diagonal: 125° 3.6mm: Horizontal: 85°, Vertical: 45°, Diagonal: 102°
Iris Type	Fixed
Close Focus Distance	2.8mm: 1.5m (4.92ft) 3.6mm: 2.2m (7.22ft)

DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	66.0m (216.54ft)	26.4m (86.61ft)	13.2m (43.31ft)	6.6m (21.65ft)
	3.6mm	78.0m (255.91ft)	22.2m (102.36ft)	15.6m (51.18ft)	7.8m (25.59ft)
	DORI (Detect, Observe, Recognize, Identify) is a standard system for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.				

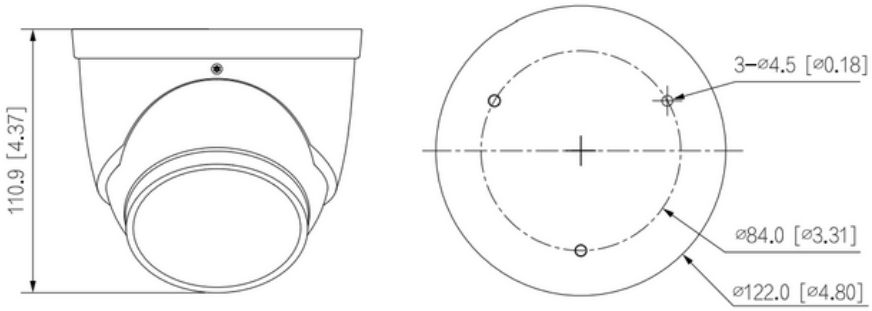
Intelligence	
IVS (Perimeter Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of human and vehicle)
SMD	SMD 4.0
AcuPick	Uses deep learning algorithms and works with back-end devices to accurately match targets, such as people and motor vehicles, and search through live and recorded videos to quickly locate targets
AI SSA	Adopt deep learning algorithms to adjust to parameters of the image to suit the conditions.
Smart Search	Work together with Smart NVR to perform refine intelligent search, even extraction and merging to event videos
Video	
Video Compression	H.265. H.264. H.264H, H.264B, MJPEG (only supported by the sub stream)
Smart Codec	Smart H.265+, Smart H.264+
AI Coding	AI H.265 (Compression rate ≥25%) AI H.264 (Compression rate ≥25%)
Video Frame Rate	Main Stream: 3840 x 2160@1-25/30fps Sub Stream: 704 x 576@1-25fps, 704 x 480@1-30fps Third Stream: 1920 x 1080@1-25/30fps *The values above are the max. frame rates of each stream, for multiple streams, the values will be subjected to the total encoding capacity*
Stream Capability	3 streams
Resolution	8M (3840 x 2160), 6M (3072 x 2048), 5M (3072 x 1728, 2592 x 1944), 4M (2688 x 152, 2560 x 1440), 3M (2048 x 1536, 2304 x 1296), 1080p (1920 x 1080), 1.3M (1280 x 960), 720p (1280 x 720), D1 (704 x 576, 704 x 480), VGA (640 x 480), CIF (352 x 288, 352 x 240)
Bit Rate Control	CBR, VBR, ABR
Video Bit Rate	H.264: 3 Kbps ~ 16384 Kbps H.265: 3 Kbps ~ 16384 Kbps
Day/Night	Auto (ICR), Color, B/W

BLC	Yes
HLC	Yes
WDR	120dB
Scene Self-Adaptation (SSA)	Yes
White Balance	Auto, natural, street lamp, outdoor, manual, regional custom
Gain Control	Auto
Noise Reduction	3D NR
Motion Detection	Off/On (4 areas, rectangular)
Region of Interest (ROI)	Yes (4 areas)
Smart Illumination	Yes
Defog	Yes
Image Rotation	0°, 90°, 180°, 270° (Support 90°, 270° with 2688 x 1520 resolution and lower)
Mirror	Yes
Privacy Masking	4 areas
LDC	Yes
Audio	
Built-in Mic	Yes
Built-in Speaker	Yes
Audio Compression	PCM, G.711a, G.711Mu, G.726, G.723
Alarm	
Alarm Event	No SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, motion detection, video tampering, tripwire, intrusion, scene changing, audio detection, intensity change, voltage detection, external alarm, SMD, security exception
Network	
Network Port	RJ-45 (10, 100 Base-T)
SDK & API	Yes
Network Protocol	IPv4/IPv6, HTTP, TCP, UDP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS, PPPoE, SNMP, P2P

Interoperability	ONVIF (Profile S, Profile G, Profile T), CGI
User/Host	20 (Total bandwidth: 64M)
Storage	FTP, SFTP, Micro SD card (support max. 256GB), NAS
Browser	IE: IE 9 & 11, Chrome, Firefox
Management Software	Smart PSS Lite, DSS, DMSS
Mobile Client	iOS & Android
Cyber Security	Video, firmware and configuration encryption, Digest, WSSE, Account lockout, Security Logs, IP/MAC filtering, Generation and importing of X.509 certification, syslog, HTTPS, 802.1x, Trusted boot, trusted execution, trusted upgrade
Certification	
Certifications	CE-LVD: EN 62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
Port	
Audio Input	1-Channel (RCA Port)
Audio Output	1-Channel (RCA Port)
Alarm Input	1-Channel In: Wet contact, 5mA 3 ~ 5 VDC
Alarm Output	1-Channel Out: Wet contact, 300mA 12 VDC
Power	
Power Supply	12 VDC, PoE
Power Consumption	Basic: 4.5W (12 VDC), 5.8W (PoE) Max. (H.265 + WDR + Warm Light + Siren and Light Active Deterrence + Intelligence On): 8.6W (12 VDC), 10.1W (PoE)
Environment	
Operating Temperature	–40°C ~ +60°C (–40°F ~ +140°F)
Operating Humidity	≤95%
Protection	IP67
Structure	
Casing Material	Metal
Product Dimensions	Φ122.0mm × 110.9mm (4.80" × Φ4.37")
Net Weight	0.75kg (1.65lb)

Gross Weight	0.92kg (2.03lb)

Dimensions



Accessories

PFA137
Junction Box

PFA109
Mount Adapter

PFA152-E
Pole Mount

PFB220C
Ceiling Mount

PFB205W-E
Wall Mount

PFM900-E
Integrated
Mount Tester