



DNC8WMT-Meta



Key Features



- 8MP 1/1.8" CMOS image sensor, low luminance & high definition image
- Outputs max. 8MP (3840 x 2160)@25/30fps
- Built-in IR LED & the max. illumination distance is 50m
- ROI, SVC, Smart H.264+, H.265+, AI H.264, H.265 encoding after filter, flexible coding, applicable to various bandwidth & storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- With deep learning algorithm, it supports: video metadata, smart sound detection, IVS, face detection, smart object detection & people counting, etc.
- Alarm: 1 in, 1 out; Audio: 1 in, 1 out; supports max. 512 GV Micro SD card, built-in Mic
- 12 VDC/PoE power supply, ePoE
- IP67 protection
- SMD 3.0



Specifications

Camera		DNC8WMT-Meta	
Image Sensor	1/1.8" 4MP		
Max. Resolution	3840 (H) x 2160(V)		
ROM	4GB		
RAM	2GB		
Scanning System	Progressive		
Electronic Shutter Speed	Auto, manual 1/3s ~ 1/100,000s		
Min. Illumination	0.008 Lux@F1.6 (Color, 30 IRE) 0.0004 Lux@F1.6 (B/W, 30 IRE) 0 Lux (Illuminator On)		
S/N Ratio	>56 dB		
Illumination Distance	50m (164.04ft) (IR)		
Illuminator On/Off Control	Auto, manual		
Illuminator Number	2 (IR LED)		
Angle Adjustment	Pan: 0° ~ 360° Tilt: 0° ~ 78° Rotation: 0° ~ 360°		
Lens			
Lens Type	Fixed-Focal		
Lens Mount	M16		
Focal Length	2.8mm, 3.6mm, 6mm		
Max. Aperture	F1.6		
Field of View	2.8mm: Horizontal: 111°, Vertical: 59°, Diagonal: 131° 3.8mm: Horizontal: 87°, Vertical: 47°, Diagonal: 102° 6mm: Horizontal: 55°, Vertical: 30°, Diagonal: 64°		
Iris Type	Fixed		
Close Focus Distance	2.8mm: 1.8m 3.6mm: 2.6m 6mm: 4.4m		



DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	85.4m (280.18ft)	34.2m (112.20ft)	17.1m (56.10ft)	8.5m (27.89ft)
	3.6mm	106.0m (347.77ft)	42.4m (131.11ft)	21.2m (69.55ft)	10.6m (34.78ft)
	6mm	164.8m (540.68ft)	65.9m (216.21ft)	33.0m (108.27ft)	16.5m (54.13ft)

Intelligence

EPTZ	Yes
IVS (Perimeter Protection)	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human), loitering detection, people gathering & parking detection
Smart Object Detection	Smart abandoned object & smart missing object
SMD 3.0	Less false alarm, longer detection distance
Ai SSA	Yes
Face Detection	Face detection, track, snapshot, snapshot optimization, optimal face snapshot upload, face enhancement, face exposure, face attributes extraction including 6 attributes & 8 expressions, face snapshot set as face, one-inch photo or custom, snapshot strategies (real-time snapshot, quality priority & optimization snapshot), face angle filter & optimization time setting
People Counting	Tripwire people counting, generating & exporting report (day/week/month/year), people counting in area & queue management, generating & exporting report (day/week/month), 4 rules can be set for tripwire, people counting in area & queue management
Heat Map	Yes
Video Metadata	Motor vehicle, non-motor vehicle, face, human body detection, track, snapshot, snapshot optimization, optimal face snapshot upload. Motor vehicle attributes: vehicle type, vehicle color, vehicle logo & other attributes: seatbelt, smoking, calling. Non-motor vehicle attributes: type, color, number of people, top type & color, hat. Human body attributes: gender, top/bottom type & color, bag, hat & umbrella. Face attributes: gender, age, expressions, glasses, face mask & beard.
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction & merging to event videos
Smart Sound Detection	Yes

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, Ai H.264



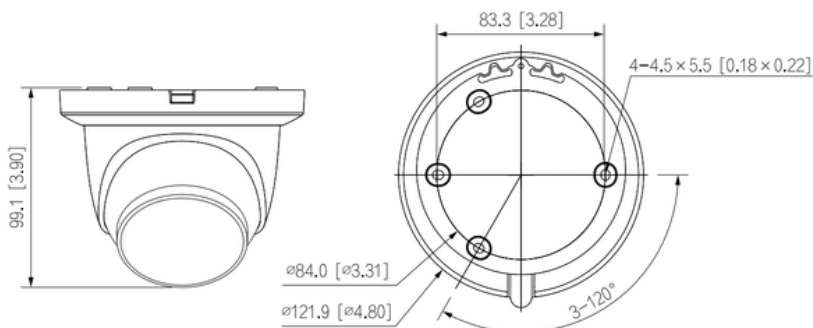
Video Frame Rate	Main Stream: 3840 x 2160@1-25/30fps Sub Stream: D1@1-25/30fps Third Stream: 1080p@1-25/30fps Fourth Stream: 720p@1-10fps <i>The values above are the max. frame rates of each stream, for multiple streams, the values will be subjected to the total encoding capacity</i>
Stream Capability	4 streams
Resolution	3840 × 2160, 3072 × 2048, 3072 × 1728, 2592 × 1944, 2688 × 1520, 2560 × 1440, 2048 × 1535, 2304 × 1296, 1080p (1920 × 1080), 1.3M (1280 × 960), 720p (1280 × 720), D1 (704 × 576, 704 × 480), VGA(640 × 480), CIF (352 × 288, 352 × 240)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32 Kbps ~ 16384 Kbps H.265: 12 Kbps ~ 13568 Kbps
Day/Night	Auto (ICR), Color, B/W
BLC	Yes
HLC	Yes
WDR	120 dB
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 area)
Smart Illumination	Yes
Defog	Yes
Image Rotation	0°, 90°, 180°, 270° (Support 90°, 270° with 4M (2688 × 1520) resolution & lower)
Mirror	Yes
Privacy Masking	8 areas
Audio	
Built-in Mic	Yes



Audio Compression	G.711a, G.711Mu, PCM, 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, fast moving, abandoned object, missing object, loitering detection, people gathering, parking detection, scene changing, audio detection, voltage detection, external alarm, face detection, video metadata, SMD, people counting in area, stay detection, people counting, people number error detection, queue people number alarm, queue time alarm, security exception
Network	
Network Port	RJ-45 (10/100 Enhancement 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, SAMBA, PPPoE, SNMP, P2P
Interoperability	ONVIF (Profile S, Profile G, Profile T), CGI
User/Host	20 (Total bandwidth: 80M)
Storage	FTP, SFTP, Micro SD card (support max. 512 GB), NAS
Browser	IE: IE 9 & later Chrome: Chrome 102 & later Firefox: Firefox 88 & later
Management Software	SmartPSS Lite, DSS, DMSS
Mobile Client	iOS & Android
Cyber Security	Configuration encryption, trusted execution, Digest, security logs, WSSE, account lockout, syslog, video encryption, 802.1x, IP/MAC filtering, HTTPS, trusted upgrade, trusted boot, firmware encryption, generation & importing of X.509 certification
Certification	
Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14
Port	
Audio Input	1-Channel (RCA Port)
Audio Output	1-Channel (RCA Port)
Alarm Input	1-Channel In: Wet Contact, 5mA 3V ~ 5V DC



Alarm Output	1-Channel Out: Wet Contact, 300mA 12V DC
Power	
Power Supply	12 VDC/PoE (802.3af)/ePoE
Power Consumption	Basic: 4.1W (12 VDC), 5.2W (PoE) Max. (H.265 + WDR + Intelligence on + IR on): 6.8W (12 VDC), 8.8W (PoE)
Environment	
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Humidity	≤95%
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Humidity	10%–95% (RH), non-condensing
Protection	IP67
Structure	
Casing Material	Inner core: Metal Cover: Metal Decoration ring: Plastic Quick install mounting plate: Metal
Product Dimensions	99.1 mm × Φ121.9 mm (3.90" × Φ4.80")
Net Weight	500 g (1.10 lb)
Gross Weight	770 g (1.70 lb)
Dimensions	



Accessories



PFA130-E
Waterproof Junction Box



PFB205W-E
Wall Mount Bracket



PFA152-E
Pole Mount Bracket



PFB220C
Ceiling Mount Bracket