



DNC8WMT-EFCMSS2



Key Features



- 8MP 1/1.2" CMOS image sensor, low illuminance, high image definition
- Outputs max. 8MP (3840 x 2160)@30fps
- Built-in Warm Light and max. Illumination distance is 50m
- ROI, SVC, 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
- With deep learning algorithms, it supports; Video Metadata, IVS, Face Detection, Smart Object Detection, People Counting, etc.
- Alarm: 1 in, 1 out. Audio: 1 in, 1 out. Supports max. 512G Micro SD card, built-in dual Mic
- 12 VDC/PoE Power supply, ePoE
- IP67 Protection
- SMD 3.0



Specifications

Camera		DNC8WMT-EFCMSS2			
Image Sensor		1/1.2" CMOS			
Max. Resolution		3840 (H) x 2160 (V)			
ROM		256MB			
RAM		2GB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto, manual, 1/3 ~ 1/100,000s			
Min. Illumination		0.0005 Lux@F1.0			
S/N Ratio		>56dB			
Illumination Distance		Up to 50m (164.04ft)			
Illuminator On/Off Control		Auto, Manual			
Illuminator Number		2(Warm Light)			
Pan/Tilt/Rotation Range		Pan: 0° ~ 360° Tilt: 0° ~ 78° Rotation: 0° ~ 360°			
Lens					
Lens Type		Fixed-Focal			
Lens Mount		M22			
Focal Length		2.8mm, 3.6mm			
Max. Aperture		F1.0			
Field of View		2.8mm: Horizontal: 102°, Vertical: 53°, Diagonal: 125° 3.6mm: Horizontal: 88°, Vertical: 48°, Diagonal: 104°			
Iris Control		Fixed			
Close Focus Distance		2.8mm: 5m (16.40ft) 3.6mm: 6m (19.68ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	95.6m (313.64ft)	38.2m (125.33ft)	19.1m (62.66ft)	9.6m (31.50ft)
	3.6mm	105.9m (347.44ft)	42.4m (139.11ft)	21.2m (68.55ft)	10.6m (34.77ft)
	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				

**Smart Event**

IVS (Perimeter Protection)	Intrusion, tripwire, fast moving (The three functions support the classification and accurate detection of human and vehicle), loitering detection, people gathering and parking detection
Smart Object Detection	Smart abandoned object, smart missing object
SMD	SMD 3.0
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
Face Detection	Face detection, snapshot, snapshot optimization, optimal face snapshot upload, face enhancement, face exposure, face attributes extraction including 6 attributes and 8 expressions, face snapshot set as face or one-inch photo, snapshot strategies (real-time snapshot, quality priority and optimization snapshot), face angle filter, optimization time setting
People Counting	Tripwire people counting and people counting in area, generating and exporting report (day/month/year), 4 rules can be set for tripwire, people counting in area and queue management
Heat Map	Yes
Video Metadata	Motor vehicle, non-motor vehicle, face, and human body detection, snapshot, snapshot optimization, optimal face snapshot upload. Extraction of motor vehicle and non-motor vehicle attributes: Extracts 6 attributes for motor vehicle and 6 attributes for non-motor vehicle. Extraction of face and human body attributes: Extracts 6 attributes for face and 8 attributes for human body
Smart Search	Work together with Smart NVR to perform refine intelligent search, event 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, 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 <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	3 streams
Resolution	8M (3840 x 2160), 6M (3072 x 2048), 5M (3072 x 1728, 2592 x 1944), 4M (2688 x 1520), 3.6M (2560 x 1440), 3M (2048 x 1536), 2M (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)



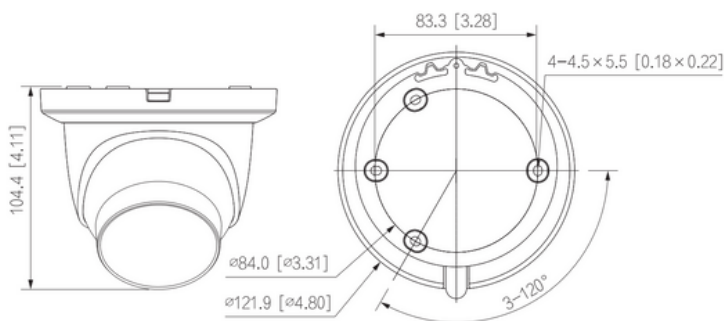
Bit Rate Control	CBR, VBR
Video Bit Rate	H.264: 32 Kbps ~ 16384 Kbps H.265: 32 Kbps ~ 16384 Kbps
Day/Night	Color, B/W
BLC	Yes
HLC	Yes
WDR	140dB
Scene Self-Adaption (SSA)	Yes
White Balance	Auto, natural, street lamp, outdoor, manual, regional custom
Gain Control	Auto, Manual
Noise Reduction	3D NR
Motion Detection	Off/On (4 areas, rectangular)
Region of Interest (ROI)	Yes (4 areas)
Defog	Yes
Image Rotation	0°, 90°, 180°, 270° (Support 90°, 270° with 4M resolution and lower)
Mirror	Yes
Privacy Masking	4 areas
LDC	Yes
Audio	
Built-in Mic	Yes, built-in dual Mic
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, fast moving, abandoned object, missing object, loitering detection, people gathering, scene changing, audio detection, voltage detection, external alarm, face detection, SMD, security exception, people detection, area people counting, stay alarm, people counting, people number exception detection
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: 80M)
Storage	FTP, SFTP, Micro SD card (supports max. 512GB), NAS
Browser	IE: IE 11 and later, Chrome 45 and later, Firefox 46 and later, Safari 12 and later
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: EN62368-1 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 3V ~ 5V DC
Alarm Output	1-Channel Out: Wet Contact, 300mA 12V DC
Power	
Power Supply	12 VDC/PoE (802.3af), ePoE
Dual Power Backup	When the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart
Power Consumption	Basic: 3.6W (12 VDC), 5W (PoE) Max. (H.265 + Warm Light + Intelligence On + 3 streams), 7.9W (12 VDC), 9.6W (PoE)
Environment	
Operating Temperature	-40°C ~ +60°C (-40°F ~ +140°F)
Operating Humidity	≤95%
Storage Temperature	-40°C ~ +60°C (-40°F ~ +140°F)
Storage Humidity	10% ~ 95% (RH), non-condensing



Protection	IP67
Structure	
Casing Material	Inner Core: Metal Cover: Metal
Product Dimensions	Φ122 mm × 119.7 mm (4.80" × Φ4.71")
Net Weight	740g (1.63lb)
Gross Weight	960g (2.12lb)
Dimensions	



Accessories



PFA130-E
Waterproof Junction Box



PFB205W-E
Wall Mount Bracket



PFA152-E
Pole Mount Bracket



PFA109
Mount Adapter



PFB220C
Ceiling Mount Bracket



PFM900-E
Integrated Mount
Tester