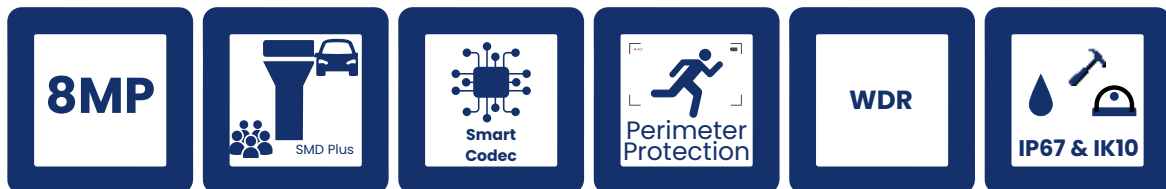




DNC8VD-WS



Key Features



- 8MP 1/2.7" CMOS image sensor, low luminance & high definition image
- Outputs max. 8MP (3840 x 2160)@25/30fps & supports 2688 x 1520 (2688 x 1520)@25/30fps
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED & the max. illumination distance is 30m
- ROI, SVC, Smart H.264+, H.265+, flexible coding, applicable to various bandwidth & 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 & accurate detection of vehicle & human)
- Abnormality detection: motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access & voltage detection.
- 12 VDC/PoE power supply, easy for installation
- IP67, IK10 protection
- SMD Plus



Specifications

Camera		DNC8VD-WS	
Image Sensor	1/2.7" CMOS		
Max. Resolution	3840 (H) x 2160(V)		
ROM	128MB		
RAM	256MB		
Scanning System	Progressive		
Electronic Shutter Speed	Auto, manual 1/3s ~ 1/100,000s		
Min. Illumination	0.009 Lux@F2.0 (Color, 30 IRE) 0.0009 Lux@F2.0 (B/W, 30 IRE) 0 Lux (Illuminator On)		
S/N Ratio	>56 dB		
Illumination Distance	30m (98.43ft) (IR)		
Illuminator On/Off Control	Auto, manual		
Illuminator Number	3 (IR LED)		
Angle Adjustment	Pan: 0° ~ 355° Tilt: 0° ~ 65° Rotation: 0° ~ 355°		
Lens			
Lens Type	Fixed-Focal		
Lens Mount	M12		
Focal Length	2.8mm, 3.6mm		
Max. Aperture	F2.0		
Field of View	2.8mm: Horizontal: 106°, Vertical: 56°, Diagonal: 125° 3.8mm: Horizontal: 88°, Vertical: 46°, Diagonal: 104°		
Iris Type	Fixed		
Close Focus Distance	2.8mm: 1.3m (4.27ft) 3.6mm: 2.6m (6.23ft)		



	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8mm	88.0m (288.71ft)	35.2m (115.49ft)	17.6m (57.74ft)	8.8m (28.87ft)
	3.6mm	106.7m (350.07ft)	42.7m (140.09ft)	21.3m (69.88ft)	10.6m (35.10ft)

Intelligence

IVS (Perimeter Protection)	Intrusion & tripwire (the two functions support the classification & accurate detection of human & vehicle)
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction & 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+
Video Frame Rate	Main Stream: 3840 × 2160@(1-20fps), 2688 × 1520@(1-25/30fps) Sub Stream: 704 × 576@(1-25fps), 704 × 480@(1-30fps) <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	2 streams
Resolution	3840 × 2160 (3840 × 2160), 3072 × 2048 (3072 × 2048), 3072 × 1728 (3072 × 1728), 2880 × 1620 (2880 × 1620), 2688 × 1520 (2688 × 1520), 3M (2048 × 1536), 2304 × 1296 (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-8192 Kbps H.265: 12 Kbps-8192 Kbps
Day/Night	Auto(ICR), Color, B/W
BLC	Yes
HLC	Yes
WDR	120 dB
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)
Smart Illumination	Yes
Image Rotation	0°, 90°, 180°, 270° (Support 90°, 270° with 2688 × 1520 resolution & lower)
Mirror	Yes
Privacy Masking	4 areas
Audio	
Built-in Mic	Yes
Audio Compression	G.711a, G.711Mu, PCM, G.726
Alarm	
Alarm Event	No SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, motion detection, video tampering, tripwire, intrusion, audio detection, voltage detection, 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, Bonjour
Interoperability	ONVIF (Profile S, Profile G, Profile T), CGI, P2P, Milestone
User/Host	20 (Total bandwidth: 48m)
Storage	FTP, SFTP, Micro SD card (support max. 256GB), NAS
Browser	IE Chrome Firefox
Management Software	Smart PS, 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
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Power

Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 2.6W (12 VDC), 3.3W (PoE) Max. (H.265+ max. resolution + max. stream + WDR + IR intensity + IVS): 5.4W (12 VDC), 6.4W (PoE)

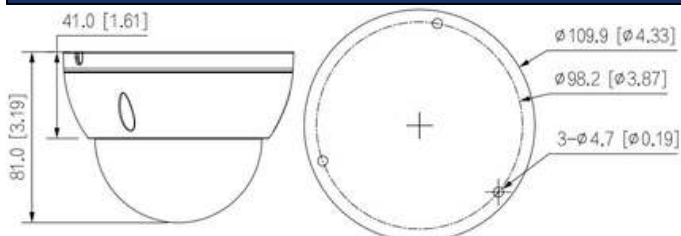
Environment

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	≤95%
Protection	IP67, IK10

Structure

Casing Material	Metal
Product Dimensions	81.0 mm × Ø109.9 mm (3.19" × Ø4.33")
Net Weight	0.34kg (0.75lb)
Gross Weight	0.49kg (1.08lb)

Dimensions



Accessories



PFA136
Junction Box



PFB203W
Wall Mount Bracket



PFA152-E
Pole Mount Bracket



PFB220C
Ceiling Mount Bracket