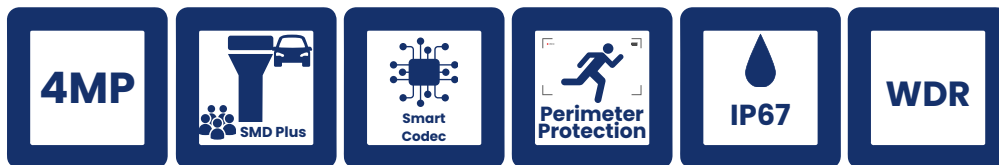




DNCB4TDWS-A



Key Features



- 4MP 1/2.9" CMOS image sensor, low luminance & high definition image.
- Outputs max. 4MP (2688 × 1520)@20fps & supports 2560 × 1440@25/30fps.
- H.265 codec, high compression rate & ultra-low bit rate.
- Built-in IR LED & the max. illumination distance is 30 m.
- ROI, Smart H.264+, Smart 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 and accurate detection of human and vehicle)
- Supports max. 256 G Micro SD card, built in Mic.
- 12 VDC/PoE power supply.
- IP67 protection.
- SMD Plus.



Specifications

Camera		DN CB4TDWS-A			
Image Sensor		1/2.9" CMOS			
Max. Resolution		2688 (H) x 1520 (V)			
ROM		128MB			
RAM		128MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto, manual, 1/3 ~ 1/100,000s			
Min. Illumination		0.006 Lux@F1.6 (Color, 30 IRE) 0.0006 Lux@F1.6 (B/W, 30 IRE) 0 Lux (Illuminator On)			
S/N Ratio		>56dB			
Illumination Distance		30m (98.43ft) (IR LED)			
Illuminator On/Off Control		Auto, Manual			
Illuminator Number		1 (IR LED)			
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		F1.6			
Field of View		2.8mm: Horizontal: 95°, Vertical: 52°, Diagonal: 114° 3.6mm: Horizontal: 78°, Vertical: 41°, Diagonal: 94°			
Iris Type		Fixed			
Close Focus Distance		2.8mm: 0.9m (2.95ft) 3.6mm: 1.6m (5.25ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	63.6m (208.66ft)	25.4m (83.33ft)	12.7m (41.67ft)	6.4m (20.99ft)
	3.6mm	85.4m (280.18ft)	34.2m (112.20ft)	17.1m (56.10ft)	8.5m (27.89ft)

**Intelligence**

IVS (Perimeter Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of human and vehicle)
Smart Search	Work together with Smart NVR to perform refine intelligent search, even extraction and merging to event videos

Video

Video Compression	H.264H, H.265, H.264, H.264B, MJPEG (Only supported by the sub stream)
Smart Codec	Smart H.265+, Smart H.264+
Video Frame Rate	Main Stream: 2688 x 1520@1-20fps, 2560 x 1440@1-25/30fps Sub Stream: 704 x 576@1-25fps, 704 x 480@1-30fps Third Stream: 1920 x 1080@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	2 streams
Resolution	4M (2688 x 1520), 4M (2560 x 1440), 3M (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 ~ 6144 Kbps H.265: 12 Kbps ~ 6144 Kbps
Day/Night	Auto (ICR), Color, B/W
BLC	Yes
HLC	Yes
WDR	120dB
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)
Image Rotation	0°, 90°, 180°, 270° (Support 90°, 270° with 2688 x 1520 resolution and 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, SMD, voltage detection, security exception
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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, NTP, Multicast, ICMP, IGMP, P2P
Interoperability	ONVIF (Profile S, Profile G, Profile T), CGI
User/Host	6 (Total bandwidth: 36M)
Storage	FTP, SFTP, Micro SD card (supports max. 256GB)
Browser	IE, Chrome, Firefox
Management Software	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, generation and 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: 2.5W (12 VDC), 3.3W (PoE) Max. (ICR + H.265 + Max. Resolution + Main Stream + IR Intensity + WDR + IVS): 4.2W (12 VDC), 5.1W (PoE)



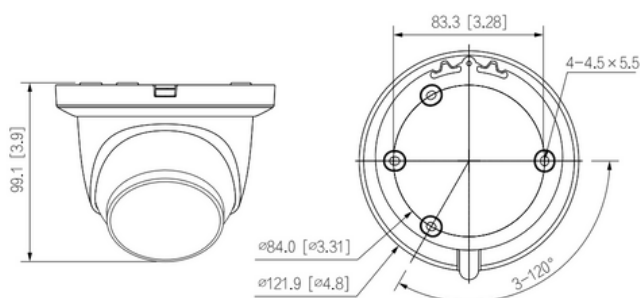
Environment

Operating Temperature	-40°C ~ +60°C (-40°F ~ +140°F)
Operating Humidity	≤95%
Storage Temperature	-40°C ~ +60°C (-40°F ~ +140°F)
Protection	IP67

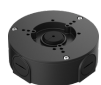
Structure

Casing Material	Inner Core: Metal, Cover: Metal, Decoration Ring: Plastic
Product Dimensions	Φ99.1mm x Φ121.9mm (3.90" x Φ4.80")
Net Weight	0.48kg (1.06lb)
Gross Weight	0.68kg (1.5lb)

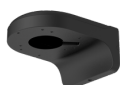
Dimensions



Accessories



PFA130-E-B
Junction Box



PFB205W-E-B
Junction Box



PFA152-E-B
Junction Box



PFB220C
Ceiling Mount Bracket



PFA109
Mount Adapter



PFM900-E
Integrated
Mount Tester