



DNC12FE-AI-S2



Key Features



- 12MP 1/1.7" CMOS image sensor, low luminance & high definition image
- Outputs max. 12M (4000 x 3000)@25fps, supports 8M (3280 x 2480)@25/30fps
- Built-in IR LED & the max. illumination distance: 10m
- Intelligent monitoring: Intrusion, tripwire, heat map & people counting
- Smart H.264+, H.265+, flexible coding, applicable to various bandwidth & storage environments
- Alarm: 2 in, 2 out. Audio: 1 in, 1 out. Supports max. 256G Micro SD card, built-in array Mic & Speaker
- 12 VDC/PoE power supply
- IP67 & IK10 protection



Specifications

Camera					DNC12FE-AI-S2				
Image Sensor		1/1.7" CMOS							
Max. Resolution		4000 (H) x 3000 (V)							
ROM		2GB							
RAM		4GB							
Scanning System		Progressive							
Electronic Shutter Speed		Auto, manual, 1/3s ~ 1/100,000s							
Min. Illumination		0.01 Lux@F2.0 (Color, 30 IRE) 0.001 Lux@F2.0 (B/W, 30 IRE) 0 Lux (Illuminator On)							
S/N Ratio		>50dB							
Illumination Distance		10m (32.81ft)							
Illuminator On/Off Control		Auto, manual							
Illuminator Number		3 (IR LED)							
Lens									
Lens Type		Fixed-Focal							
Lens Mount		M12							
Focal Length		1.85mm							
Max. Aperture		F2.0							
Field of View		Horizontal: 185° Vertical: 180°							
Iris Control		Fixed							
Close Focus Distance		0.4m (1.31ft)							
DORI Distance	Detect	Observe		Recognize		Identify			
	40.0m (131.23ft)	16.0m (52.49ft)		8.0m (26.2ft)		4.0m (13.12ft)			



Smart Event	
Heat Map	Yes
Professional, Intelligent	
IVS (Perimeter Protection)	Intrusion & Tripwire
People Counting	Supports 4 rules to count the number of people entering, exiting & staying separately. It will trigger alarm linkage when the number of people who enter, exit, or stay exceeds the threshold. It can display & export reports based on year, month, day, week or custom time. Supports 4 rules to count the number of people in the area & will trigger alarm linkage when the average stand time or people number in the area exceeds the threshold. It can display & export reports based on year, month, day, week or custom time. Support 4 queue management rules to count number of people queuing & queue time in real time & it will trigger alarm linkage when the number of people queued or queue time exceeds the threshold. It can display & export reports based on year, month, day, week or custom time.
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, MJPEG (Only supported by the sub stream)
Smart Codec	Smart H.265+, Smart H.264+
Video Frame Rate	Main Stream: 4000 x 3000@1-25/25fps Sub Stream: 704 x 576@1-25/30fps Third Stream: 1280 x 960@1-17/17fps Fisheye Mode: 1O (4000 x 3000) 1P (4096 x 1024) 2P (2432 x 2432) 1R (1216 x 1216) 2R (2432 x 2432) 4R (2432 x 2432) 1O + 3R (2432 x 2432) <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	4000 x 3000, 3280 x 2480, 2880 x 2160, (3M) 2048 x 1536, 1.3M (1280 x 960), D1 (704 x 576, 704 x 480), CIF (352 x 288, 352 x 240)
Bit Rate Control	CBR, VBR
Video Bit Rate	H.264: 8 Kbps ~ 16384 Kbps H.265: 3 Kbps ~ 16384 Kbps
Day/Night	Auto (ICR), Color, BN



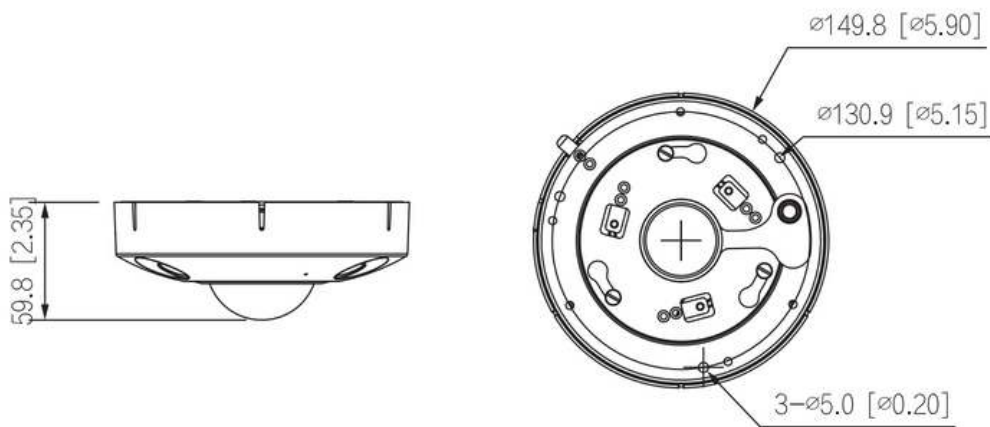
BLC	Yes
HLC	Yes
WDR	DWDR
White Balance	Auto, natural, street lamp, outdoor, manual, regional custom
Gain Control	Auto
Noise Reduction	3D NR
Motion Detection	Off/On (4 areas, rectangular)
Region of Interest (ROI)	Yes (4 areas)
Defog	Yes
Privacy Masking	4 areas
Audio	
Built-in Mic	Yes
Audio Compression	PCM, G.711A, G.711Mu, G.726, G.723
Alarm	
Alarm Event	No SD card, SD card full, SD card durability warning, SD card error, network disconnection, IP conflict, illegal access, motion detection, video tampering, tripwire, intrusion, scene changing, audio detection, voltage detection, external alarm, people counting in area, stay detection, people counting & security exception
Network	
Network Port	RJ-45 (10, 100, 1,000 Base-T)
SDK & API	Yes
Cybersecurity	Video, firmware & configuration encryption, digest, WSSE, account lockout, security logs, IP/MAC filtering, generation & importing of X.509 certification, syslog, HTTPS, 802.1x, trusted boot, trusted execution & trusted upgrade
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
Interoperability	ONVIF (Profile S, Profile G, Profile T), CGI, Milestone, Genetec, P2P (Only supported by general version)
User/Host	20
Storage	FTP, SFTP, Micro SD card (support max. 256G), NAS



Browser	IE: IE11, IE10 Chrome: 48.0.2564.116 Firefox: 48.0.2 Edge: 42.17134.10
Management Software	Smart PSS, DSS, DMSS
Certifications	
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	2-Channels in: 5mA 3V ~ 5 VDC
Alarm Output	2-Channels Out: 1,000mA 30 VDC, 500mA 50 VDC
Power	
Power Supply	12 VDC/PoE+
Power Consumption	Basic: 6.5W (12 VDC), 6.1W (PoE) Max. (ICR + IR Intensity): 13W (12 VDC), 13.9W (PoE) Heating: 3W (12 VDC), 3W (PoE)
Environment	
Operating Temperature	-40°C ~ +60°C (-40°F ~ +140°F)
Operating Humidity	≤95%
Storage Temperature	-30°C ~ +70°C (-22°F ~ +158°F)
Protection	IP67, IK10
Structure	
Casing	Metal
Product Dimensions	59.8mm x ϕ 149.8mm (2.35" x ϕ 5.90")
Net Weight	0.79kg (1.74lb)
Gross Weight	1.21 kg (2.67lb)



Dimensions



Accessories



PFB300C
Ceiling Mount Bracket



PFA100
Adapting Plate



PFB302S
Wall Mount Bracket