

SN-D2P-F

Bi-spectrum Compact Network Camera



Key Features

- 256 × 192 (the resolution of output image is 704 × 576 resolution)
- Support 3 temperature measurement rule types (spot, line, area)
- Temperature range: -20°C to 150°C (-4°F to 302°F) or 0 °C to 550 °C (32°F to 1022 °F)
- Temperature accuracy: ±2°C, ±2%
- Reliable temperature exception alarm function
- Built-in warm light and microphone
- Magnet mount for power distribution cabinet
- IP67 rated

Specifications

Camera		
	Thermal	Visible
Image Sensor	VOx uncooled focal plane array	1/2.8" 2MP STARVIS CMOS
Max Resolution	256 × 192 thermal resolution, upscaled output up to 704 × 576	1600(H) × 1200(V)
Pixel Pitch	12 μm	N/A
Spectral Range	8–14 μm	N/A
NETD	≤ 60 mK	N/A
Shutter Speed	N/A	1/5 to 1/20,000s
Min Illumination	N/A	Color: 0.05Lux @(F2.2, AGC ON), B/W: 0.005Lux @(F2.2, AGC ON), 0Lux with illuminator on
Day & Night	N/A	Fixed filter
Lens		
	Thermal	Visible
Lens Type	Fixed lens	Fixed lens
Focal Length	2 mm	2.3 mm
Max. Aperture	F1.1	F2.2
Field of View (FOV)	H: 90°, V: 65°	H: 100°, V: 75°
Focus Control	Fixed	Fixed
Illuminator		
Type	White light	
Distance	-0.3 m distance: 0.8×0.8 m, -1 m distance: 1.8×1.2 m	
Control	Auto / Manual	
Intelligent Analytics		
	Thermal	Visible
Smoke and Flame Detection	N/A	Supported
Smoking Detection	Supported	N/A
Fire Spot Detection	Supported	N/A
Video & Audio		
	Thermal	Visible
Main Stream	D1 (704 × 576)	1600 × 1200, 1280 × 720

Sub Stream	CIF	D1, VGA, 640 × 360, CIF, QVGA
Frame Rate	Up to 25/30 fps	Up to 25/30 fps
Bit Rate Control	CBR/VBR	CBR/VBR
Bit Rate	Main Stream: 100 Kbps to 6 Mbps, Sub Stream: 10 Kbps to 1.5 Mbps	Main Stream: 100 Kbps to 8 Mbps Sub Stream: 10 Kbps to 6 Mbps
Smart Encoding	Supported	Supported
Region of Interest (ROI)	Up to 8 zones	Up to 8 zones
Audio Compression	G.711 A-law, G.711 μ -law, RAW_PCM	G.711 A-law, G.711 μ -law, RAW_PCM
Audio Bit Rate	64 Kbps (G.711), 128 Kbps (RAW_PCM)	64 Kbps (G.711), 128 Kbps (RAW_PCM)

Image		
	Thermal	Visible
Image Adjustment	Brightness, Contrast, Sharpness	Brightness, Saturation, Contrast, Sharpness
Scene Mode	Mirror	Indoor, Outdoor, Mirror
Pseudo-color Setting	Up to 17 colors (White-hot / Black-hot / Rainbow / Iron red / HSV / Bone / Cool / Copper / Fire-hot / Pink / Spring / Summer / Autumn / Winter / Jet / Flame / Rose - Bengal)	N/A
FFC Control	Auto / Manual	N/A
Exposure Mode	N/A	Auto, Manual, Shutter priority
White Balance	N/A	Auto / Tungsten / Fluorescent / Daylight / Shadow
Day/Night Setting	N/A	Day mode / Night mode / Time
Noise Reduction	2D/3D DNR	2D/3D DNR
Image Enhancement	N/A	WDR, HLC, BLC, Defog
Wide Dynamic Range	N/A	True WDR (120 dB)
OSD	Up to 8 OSD	Up to 8 OSD
Privacy Masking	Up to 4 configurable zones	Up to 4 configurable zones

Thermal Function	
Temperature Range	-20 °C to 150 °C (-4 °F to 302 °F) or 0 °C to 550 °C (32 °F to 1022 °F)
Accuracy	±2 °C or ±2% (whichever is greater)
Temperature Detection	Supports 3 temperature measurement rule types (spot, line, and area); up to 20 rules in total, including 1 full-screen rule and 19 spot/line/area rules Temperature Measurement Distance (0.1×0.1 m): 3 m
Temperature Alarm	Temperature difference alarm, temperature threshold alarm, and temperature rise alarm
Temperature Display	Lower-left corner display; cursor-based display of maximum, minimum, and average temperature values
Image Fusion	Thermal and optical image fusion

Event

Alarm Triggers	VS, temperature anomaly, motion detection, alarm input, network alarm, disk alarm, and abnormal sound detection
Event Actions	Alarm recording, FTP upload, SMTP email notification, alarm output, flashing light alarm, and audible alarm output
Network	
Protocols	IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPOE, RTSP/RTP/RTCP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, 802.1x, SNMP, Multicast
Application Programming Interface	ONVIF (Profile S/T/G/M), CGI, SDK
Max Concurrent Streams	10 channels
User/Host Level	32+ users, 3 levels: Administrator, Operator, and Media user
Web Viewer	Chrome, Firefox, Microsoft Edge, IE11 or earlier
Security	
OS / Firmware Protect	Encrypted firmware, Signed firmware
User Authentication	Digest authentication, Brute-force attack protection
Network Authentication	IEEE 802.1X (EAP-TLS)
Secure Communication	HTTPS, WSS (WebSocket Secure), SRTP
Access Control	IP-based access control, Auto logout
Data Protect	Encryption credentials
Audit	Access, system, and event logs
Supply Chain Security	SBOM
Interface	
Network Interface	1 × RJ45 10/100 Mbps Ethernet port
Built-in Microphone	Supported
Alarm Interface	1 input, 1 output
Control Interface	1 × RS-232
RS-485	1 × RS-485
SD Card Slot	Built-in microSD card slot (up to 512 GB)
Reset Button	Supported
General	
Language	English, Chinese, Traditional Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, Korean. Default: English
Power Supply	12 VDC ±20%/PoE (802.3af)
Power Consumption	Max 3 W
Operating Temperature	-30 °C to 60 °C (-22 °F to 140 °F)
Operating Humidity	≤ 90% RH (non-condensing)
Ingress Protection	IP67

Certifications	CE-EMC: EN 55032, EN IEC 61000-6-4, EN IEC 61000-3-2, EN 61000-3-3, EN 55035, EN 50130 CE-LVD: EN IEC 62368-1 FCC: 47 CFR Part 15, Subpart B
Material	Aluminum alloy
Dimensions	55 × 118 × 36 mm (2.17 × 4.65 × 1.42 inch)
Net Weight	Without Cable: 0.3 Kg (0.66 lb) With Cable: 0.44 Kg (0.97 lb)

Dimensions (mm)

