Functions

SMD Plus
With intelligent algorithm, Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

Smart H.265+ & Smart H.264+
With advanced scene-adaptive rate control algorithm, smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Perimeter Protection
With deep learning algorithm, Perimeter Protection technology can recognize human and vehicle accurately In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion) are largely reduced.

WDR
With advanced Wide Dynamic Range (WDR) technology, network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

Cyber Security
Network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.

Protection (IP67, wide voltage)
IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.
Wide voltage: The camera allows ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

230718

Camera

Image Sensor	1/2.7" CMOS
Max. Resolution	2960 (H) × 1668 (V)
ROM	128 MB
RAM	128 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Minimum Illumination	0.007 lux@F1.5 (Color, 30 IRE) 0.0007 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator On)
S/N Ratio	> 56 dB
Illumination Distance	Up to 40 m (131.23 ft) (IR)
Illuminator On/Off Control	Auto; Manual
Illuminator Number	2 (IR LED)
Pan/Tilt/Rotation Range	Horizonal: 0°–355°, Vertical: 0°–67°, Rotation: 0°–355°

Lens

Lens Type	Motorized Vari-Focal				
Lens Mount	φ14				
Focal Length	2.7 mm–13.5 mm				
Max. Aperture	F1.5				
Field of View	H: 113°–31°; V: 58°–18°; D: 138°–36°				
Iris Control	Fixed				
Close Focus Distance	0.8 m (2.62 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	64.0m (210.0ft)	25.6m (84.0ft)	12.8m (42.0ft)	6.4m (21.0ft)
	T	210.0m (689.0ft)	84.0m (275.6ft)	42.0m (137.80ft)	21.0m (68.90ft)

Smart event

IVS (Perimeter Protection)	Tripwire; Intrusion(The Two Functions Support the Classification and Accurate Detection of Vehicle and Human)
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+
Video Frame Rate	Main Stream: 2960 × 1668 @(1–20 fps)/2688 × 1520@(1–25/30 fps) Sub Stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps) *The Values Above are the Max. Frame Rates of Each Stream; for Multiple Streams, The Values will be Subjected to the Total Encoding Capacity.
Stream Capability	2 Streams
Resolution	2960 × 1668 (2960 × 1668); 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

Video	
Scene Self-Adaptation (SSA)	Yes
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual/Regional Custom
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	OFF/ON (4 Areas, Rectangular)
Region of Interest(RoI)	Yes (4 Areas)
Smart IR	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 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; Intrusion; Tripwire; Scene Changing; Audio Detection; Voltage Detection; Defocus Detection; External Alarm; SMD; Safety Exception

Network	
Network	RJ-45 (10/100 Base-T)
SDK and API	Yes
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 And Importing of X.509 Certification
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; Boujour; P2P
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone
User/Host	20 (Total Bandwidth: 48 M)
Storage	FTP; SFTP; Micro SD Card (Support Max. 256 GB); NAS
Browser	IE, Chrome, Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Phone	IOS; Android

Port	
Audio Input	1 Channel (RCA Port)
Audio Output	1 Channel (RCA Port)
Alarm Input	1 Channels In: 5 mA 3–5 VDC
Alarm Output	1 Channel Out: 300 mA 12 VDC

Power	
Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 2.4 W (12 VDC); 3 W (PoE) Max. (H.265+Intelligence On +WDR +IR On): 6.2 W (12 VDC); 7.4 W (PoE)

Environment	
Operating Temperature	−30 °C to +60 °C (−22 °F to +140 °F)
Operating Humidity	≤95%
Storage Temperature	−40 °C to +60 °C (−40 °F to +140 °F)
Protection Grade	IP67, IK10

Structure	
Casing	Metal
Product Dimensions	93.4 mm × Φ122 mm (3.68" × Φ4.80")
Net Weight	0.51 kg (1.12 lb)
Gross Weight	0.67 kg (1.48 lb)

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

Dimensions (mm[inch])