

features

- · 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- · Outputs max. 4MP (2688 × 1520)@30 fps
- · H.265 codec, high compression rate, low bit rate
- · Built-in IR LED, max. IR distance: 40 m
- \cdot ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- \cdot Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Intelligent detection: Intrusion, tripwire (support the classification and accurate detection of vehicle and human)
- · Abnormality detection: Motion detection, video tampering, scene changing, audio abn ,PUM0004243 ,ormality detection, no SD card, SD card SD Card full,SD Card
- error, network disconnection, IP conflict, illegal access, voltage detection
- · Alarm: In, out; Audio: In, out; Supports max. 256 G Micro SD card
- · 12V DC/POE power supply
- \cdot IP67, IK10 protection
- · SMD Plus

System Overview

Launched by Snappy Technology, a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Snappy's advanced technologies, provides intelligent, simple and inclusive products and solutions.

With advanced deep learning algorithm, Snappy 3 Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. With starlight technology, this series camera provides a better image effect in the condition of low illuminance

Functions

SMD Plus

With intelligent algorithm, Snappy 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.

IP-D4MWAC-WS

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Snappy 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, Snappy 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, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

Starlight

Snappy Starlight technology mainly applies to the environment of low illumination, and it can provide clear colorful video. Even in the environment of min. illumination, the technology can guarantee the good image effect.

Cyber Security

Snappy 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, IK10, 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.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J).

Wide voltage: The camera allows ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification

Camara				
Camera				
Image Sensor			1/3"4Megapixel progressive CMOS	
Effective Pixels			2688 (H) × 1520 (V)	
RAM/ROM			128 MB / 512MB	
Scanning System			Progressive	
Electronic Shutter Speed			Auto/Manual, 1/3 s–1/100000 s	
Minimum Illumination			0.005 Lux@F1.5 (Color, 30IRE)0.0005 Lux@F1.5 (B/W, 30IRE)0 Lux (Illuminator on)	
IR Distance			40 m (131.23 ft)	
IR On/Off Control			Auto/Manual	
IR LEDs			2 (IR LED)	
S/N Ratio			> 56 dB	
Pan/Tilt/Rotation Range			Pan: 0°-355°; Tilt: 0°-65°; Rotation: 0°-355°	
Lens				
Lens Type			Motorized vari-focal	
Mount Type			ф14	
Focal Length			2.7 mm–13.5 mm	
Max. Aperture			F1.5	
Angle of View			H: 104°–27°, V: 55° –15° ,D: 124° –31°	
Iris Type			Fixed	
Close Focus Distance			0.8 m (2.6 ft)	
	Lens		Detect Observe Recognize Identify	
DORI Distance	W		64m(120ft) 25.6m(84ft) 12.8m(42ft) 6.4m(21ft)	
	Т		222m 88.8m 44.4m 22.2m	
(728.3ft) (291.3ft) (145.7ft) (72.8ft) Professional, Intelligent				
Perimeter Protec	tion		Tripwire; intrusion (Recognition of human and vehicle)	
Perimeter Protec			Work together with Smart NVR to perform refine intelligent search, event extraction and merging to	
Intelligent Search			Work together with Smart NVR to perform refine	
Intelligent Search Video			Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	
Intelligent Search Video Compression			Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos H.265,H.264,H.264B,H.264H, MJPEG (sub stream)	
Intelligent Search Video			Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos H.265,H.264,H.264B,H.264H, MJPEG (sub stream) Smart H.265+/ Smart H.264+	
Intelligent Search Video Compression			Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos H.265,H.264,H.264B,H.264H, MJPEG (sub stream)	
Video Compression Smart Codec			Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos H.265,H.264,H.264B,H.264H, MJPEG (sub stream) Smart H.265+/ Smart H.264+	
Video Compression Smart Codec			Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos H.265,H.264,H.264B,H.264H, MJPEG (sub stream) Smart H.265+/ Smart H.264+ 3 Streams	
Video Compression Smart Codec Streaming Capab			Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos H.265,H.264,H.264B,H.264H, MJPEG (sub stream) Smart H.265+/ Smart H.264+ 3 Streams Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25 fps/	
Video Compression Smart Codec Streaming Capab			Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos H.265,H.264,H.264B,H.264H, MJPEG (sub stream) Smart H.265+/ Smart H.264+ 3 Streams Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps)	
Video Compression Smart Codec Streaming Capab			Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos H.265,H.264,H.264B,H.264H, MJPEG (sub stream) Smart H.265+/ Smart H.264+ 3 Streams Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25 fps/ 704 × 480@1–30 fps) third stream (1280 × 720@1–25/30 fps) 4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480);	
Video Compression Smart Codec Streaming Capab Frame Rate Resolution			Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos H.265,H.264,H.264B,H.264H, MJPEG (sub stream) Smart H.265+/ Smart H.264+ 3 Streams Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25 fps/ 704 × 480@1–30 fps) third stream (1280 × 720@1–25/30 fps) 4M (2688 × 1520); 3M (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)	
Video Compression Smart Codec Streaming Capab Frame Rate Resolution Bit Rate Control			Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos H.265,H.264,H.264B,H.264H, MJPEG (sub stream) Smart H.265+/ Smart H.264+ 3 Streams Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25 fps/ 704 × 480@1–30 fps) third stream (1280 × 720@1–25/30 fps) 4M (2688 × 1520); 3M (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) CBR/VBR H.264: 32 Kbps–8192 Kbps	
Intelligent Search Video Compression Smart Codec Streaming Capab Frame Rate Resolution Bit Rate Control Bit Rate			Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos H.265,H.264,H.264B,H.264H, MJPEG (sub stream) Smart H.265+/ Smart H.264+ 3 Streams Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25 fps/ 704 × 480@1–30 fps) third stream (1280 × 720@1–25/30 fps) 4M (2688 × 1520); 3M (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) CBR/VBR H.264: 32 Kbps-8192 Kbps H.265: 19 Kbps-8192 Kbps	
Video Compression Smart Codec Streaming Capab Frame Rate Resolution Bit Rate Control Bit Rate Day/Night			Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos H.265,H.264,H.264B,H.264H, MJPEG (sub stream) Smart H.265+/ Smart H.264+ 3 Streams Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25 fps/ 704 × 480@1–30 fps) third stream (1280 × 720@1–25/30 fps) 4M (2688 × 1520); 3M (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) CBR/VBR H.264: 32 Kbps-8192 Kbps H.265: 19 Kbps-8192 Kbps Auto(ICR)/Color/B/W	
Video Compression Smart Codec Streaming Capab Frame Rate Resolution Bit Rate Control Bit Rate Day/Night BLC/HLC			Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos H.265,H.264,H.264B,H.264H, MJPEG (sub stream) Smart H.265+/ Smart H.264+ 3 Streams Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25 fps/ 704 × 480@1–30 fps) third stream (1280 × 720@1–25/30 fps) 4M (2688 × 1520); 3M (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) CBR/VBR H.264: 32 Kbps–8192 Kbps H.265: 19 Kbps–8192 Kbps Auto(ICR)/Color/B/W	

Gain Control	Auto/Manual
	3D DNR
Noise Reduction	Off/On (4 Area, Rectangle)
Motion Detection	Off/On (4 Area)
Region of Interest	Oll/On (4 Area)
Smart IR	Yes
Flip	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution and lower.)
Mirror	Yes
Privacy Masking	4 Areas
Audio	
Compression	G.711a; G.711Mu; G726
Alarm	
Alarm Event	No SD card; SD card full; SD card error; less service time of SD card (smart card supports); network disconnection; IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene changing; input abnormal; intensity change; tripwire; intrusion; SMD
Network	
Ethernet	RJ-45 (10/100 Base-T)
SDK and API	Yes
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Protocol	IPv4;IPv6;HTTP;HTTPS;TCP;UDP;ARP;RTP;RTSP;RTCP ;RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP ;NTP;Multicast;ICMP;IGMP;NFS;PPP0E;802.1x;SNMP
Interoperability	ONVIF Profile S/Profile G/Profile T , CGI, Milstone, Genetec, P2P
Streaming Method	Unicast/Multicast
User/Host	20 (Total bandwidth: 64 M)
Edge Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS
Web Viewer	IE: IE8, IE9, IE11ChromeFirefox
Management Software	Smart PSS, DSS, DMSS
Smart Phone	iOS, Android
Certification	
Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Port Audio Input	1-channel (RCA port)
Audio Output	1-channel (RCA port)
Alarm Input	1 channel In: 5mA 5V DC
Alarm Output	1 channel out: 300mA 12V DC
Electrical	
Power Supply	12V DC/PoE (802.3af)
Power Consumption	<8.5W
Environment	
Operating Conditions	-30°C to +60°C (-22°F to +140°F)/less than 95%
Storage Conditions	-40°C to +60°C (-40°F to +140°F)
Protection Grade	IP67, IK10
Structure	
Casing	Metal
Dimensions	Φ122 mm × 88.9 mm (Φ4.8" × 3.5")
Net Weight	492 g (1.1 lb)
	663 g (1.5 lb)

Mailing Address

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