Functions

Smart (H.265+ & H.264+)
Adopting advanced algorithm of auto stream control according to the environment, smart encoding technology realizes the higher efficiency than (H.265 & H.264), providing high-quality video, and reducing the cost of storage and transmission.

Starlight
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.

Intelligent Video Analysis (IVS)
With advanced video algorithm, camera supports intelligent detection, such as tripwire and intrusion and so on.

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 m (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.

Camera

Image Sensor	1/2.7"2Megapixel Progressive CMOS
Effective Pixels	1920 (H) × 1080 (V)
ROM	128 MB
RAM	128 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100000 s
Min. Illumination	0.005 Lux @ F1.6
IR Distance	30 m (98.43 ft)
IR On/Off Control	Auto/Manual
IR LEDs Number	3
Pan/Tilt/Rotation Range	Horizonal: 0°–355°
	Vertical: 0°–65°
	Rotation: 0°–355°

Lens

Lens Type	Fixed
Mount Type	M12
Focal Length	2.8 mm
Max. Aperture	F1.6
Field of View	Horizonal: 110.0°
	Vertical: 59.0°
	Diagonal: 132.0°
Close Focus Distance	2.8 mm: 0.6 m (1.97 ft)

DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	37.3 m	14.9 m	7.5 m	3.7 m
		(122.38 ft)	(48.88 ft)	(24.61 ft)	(12.14 ft)

Smart Event

General IVS Analytics	Intrusion; Tripwire

Video

Video Compression	H.265; H.264; H.264B; MJPEG
Smart Codec	Yes
Video Frame Rate	Main Stream:
	1920 × 1080 (1 fps-25/30 fps)
	Sub Stream:
	704 × 576 (1 fps-25fps)
	704 × 480 (1 fps-30fps)
Stream Capability	2 Streams
Resolution	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–6144 kbps
	H.265: 12 kbps–6144 kbps
Day/Night	Auto(ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	DWDR
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° (Supports 90°/270° with 1080p Resolution.)

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Video	
Mirror	Yes
Privacy Masking	4 Areas
Network	
Network	RJ-45 (10/100 Base-T)
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; PPPoE; 802.1x; Bonjour
Interoperability	ONVIF(Profile S/Profile G); CGI; P2P; Milestone; Genetec
User/Host	20
Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (Support Max. 256 GB); NAS
Browser	IE
	Chrome
	Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Phone	IOS; Android
Power	
Power Supply	12V DC/PoE (802.3af)
Power Consumption	< 5W
Environment	
Operating Conditions	-40°C to +60°C (-40°F to +140°F)/Less Than ≤ 95%
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)
Protection Grade	IP67, IK10
Structure	
Casing	Metal
Dimensions	81 mm × Φ109.9 mm (3.19" × Φ4.33")
Net Weight	0.350 kg (0.77 lb)
Gross Weight	0.481 kg (1.06 lb)

Dimensions (mm)