

2 MP PTZ Network Camera

2MP 12x PTZ Network Camera



- 1/2.7-in. 2 MP CMOS Sensor
- Powerful 12x Optical Zoom
- Triple-stream Encoding
- Maximum 1080p at 30 fps, 720p at 30/60 fps
- Intelligent Video System (IVS)
- Supports PoE+
- IK10 Vandal Resistance
- Five-year Warranty



System Overview

Featuring a powerful optical zoom and accurate pan/tilt/zoom performance, the SD42C series PTZ camera can provide large monitoring range and great detail. The camera delivers 1080P resolution at 30 fps, with 12x optical zoom. SD42C series PTZ is equipped with quick and smooth control, high quality image and good protection, which make it can meet most of the requirements of video surveillance applications.

Functions

Smart H.264+

Delivering high quality video without straining the network, Smart H.264+ is the optimized implementation of H.264. The Smart H.264+ encoding platform includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing a savings of up to 70% of bandwidth and storage when compared with standard H.264.

Wide Dynamic Range

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, true WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Environmental

With a temperature range of -30 °C to +60 °C (-22 °F to +140°F), the camera is designed for extreme temperature environments. The camera complies with the IK10 Vandal Resistance impact rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in.).

Protection

This camera suits even the harsh conditions for outdoor applications. Its 2KV lightning rating provides protection against the camera and its structure from the effects of lightning.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) and PSIA (Physical Security Interoperability Alliance) specifications, ensuring interoperability between network video products regardless of manufacturer.



Lite Series | DH-SD42CA212TN-HNI

Technical Specification

Camera	
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Image Sensor		1/2.7-in. CMOS	
Effective Pixels		1920(H) x 1080(V), 2 MP	
RAM/ROM		256 MB / 128 MB	
Scanning System		Progressive	
Minimum Illumination		Color: 0.05 Lux at F1.6; B/W: 0.005 Lux at F1.6	
S/N Ratio		More than 55 dB	
Lens			
Focal Length		5.1 mm to 61.2 mm	
Max. Aperture		F1.6 to F3.0	
Angle of View		H: 59.3° to 5.2°	
Optical Zoom		12x	
Focus Control		Auto,Manual	
Close Focus Distance		100 mm to 1000 mm	
PTZ			
Pan/Tilt Range		Pan: 0° to 360° endless; Tilt: -2° to 90°, auto flip 180°	
Manual Control Speed		Pan: 0.1° to 300° /s; Tilt: 0.1° to 120° /s	
Preset Speed		Pan: 300° /s; Tilt: 200° /s	
Presets		300	
PTZ Mode		5 Pattern, 8 Tour, Auto Pan, Auto Scan	
Speed Setup		Human-oriented focal Length, speed adaptation	
Power up Action		Auto restore to previous PTZ and lens status after power failure	
Idle Motion		Activate Preset, Scan, Tour, Pattern if there is no command in the specified period	
Protocol		DH-SD	
Video			
Compression		Smart H.264+, H.264, MJPEG	
Streaming Capability		3 Streams	
Resolution		1080p (1920 × 1080), 720p (1280 × 720), D1 (704 × 480), CIF (352 × 240)	
	Main Stream	1080p/D1 at 30 fps, 720p at 60 fps	
Frame Rate	Sub Stream 1	D1/CIF at at 30fps	
	Sub Stream 2	720P/D1/CIF at 30 fps	

Bit RateSmart H.264: H.264: 448 K to B192 Kbps, MIPEG: 5120 K to 10240 KbpsDay/NightAuto (ICR), Color, B/WBacklight CompensationBLC, HLC, WDR (120 dB)White BalanceAuto, AtW, Indoor, Outdoor, ManualGain ControlAuto, ManualNoise ReductionUltra DNR (2D/3D)Motion DetectionSupportBegion of InterestSupportDigital ZoomIGAPrivacy MaskingUp to 24 areasAudioSupportProtocolRef. (2010)ProtocolSupportProtocolIP/4/IP/6, HTTP, HTTPS, SSL, TCP/IP, UDP, UDP, WDP, EDS, DDNS, FTP, IP Filter, QoS, Bonjour, 802: L1XXProtocolIP/4/IP/6, HTTP, HTTPS, SSL, TCP/IP, UDP, UDP, WDP, EDS, DDNS, FTP, IP Filter, QoS, Bonjour, 802: L1XXInteroperabilityONVIF, PSIA, CGIManagement SoftwareSical PC for instant recording, 128GBMobile Operating SystemIGS, Android, Windows PhoneInterfaceCretificationsCertificationsCret: ENSS032/ENSS024/ENS0130-4 EC: Part1S subpart8, ANSI CG3.4-2014 EC: Part1S	Bit Rate Control	CBR, VBR
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Nax. User Access20 usersEdge StorageNAS (Network Attached Storage), Local PC for instant recording, 128GBWeb ViewerIE 10, Firefox, SafariManagement SoftwareSmart PSS, DSSMobile Operating SystemIOS, Android, Windows PhoneCertificationsCE: ENS5032/ENS5024/ENS0130-4 FCC: Part15 subpartB, ANSI C63.4- 2014 UI: UL60950-1+CAN/CSA C22.2,No.60950-1InterfaceInput: One (1) Channel Output: One (1) Channel Output: One (1) ChannelAlarmInput: Two (2) Channel Output: One (1) Channel Output: One (1) ChannelPower Supply24 VAC, 1.5 A (±10%), PoE+ (802.3at)	Interoperability	ONVIF, PSIA, CGI
Edge StorageNAS (Network Attached Storage), Local PC for instant recording, 128GBWeb ViewerIE 10, Firefox, SafariManagement SoftwareSmart PSS, DSSMobile Operating SystemIOS, Android, Windows PhoneCertificationsCE: ENS5032/ENS5024/ENS0130-4 FCC: Part15 subpartB, ANSI C63.4-2014 UI: UL60950-1+CAN/CSA C22.2,No.60950-1InterfaceInput: One (1) Channel Output: One (1) Channel Output: One (1) ChannelAlarmInput: Two (2) Channel Output: One (1) ChannelElectrical24 VAC, 1.5 A (±10%), POE+ (802.3at)	Streaming Method	Unicast / Multicast
Edge StorageLocal PC for instant recording, 128GBWeb ViewerIE 10, Firefox, SafariManagement SoftwareSmart PSS, DSSMobile Operating SystemIOS, Android, Windows PhoneCertificationsCE: ENS5032/ENS5024/ENS0130-4 FCC: Part15 subpartB,ANSI C63.4- 2014 UI: UL609S0-1+CAN/CSA C22.2,No.609S0-1InterfaceInput: One (1) Channel Output: One (1) Channel Output: One (1) ChannelAlarmInput: Two (2) Channel Output: One (1) ChannelElectrical24 VAC, 1.5 A (±10%), PoE+ (802.3at)	Max. User Access	20 users
Management SoftwareSmart PSS, DSSMobile Operating SystemIOS, Android, Windows PhoneCertificationsCE: ENS5032/ENS5024/ENS0130-4 FCC: Part15 subpartB, ANSI C63.4-2014 UL: UL60950-1+CAN/CSA C22.2,No.60950-1InterfaceInput: One (1) Channel Output: One (1) ChannelAlarmInput: Two (2) Channel Output: One (1) ChannelElectrical24 VAC, 1.5 A (±10%), PoE+ (802.3at)	Edge Storage	
Nobile Operating SystemIOS, Android, Windows PhoneCertificationsCE: ENS5032/ENS5024/ENS0130-4 FCC: Part15 SubpartB,ANSI C63.4-2014 UL: UL60950-1+CAN/CSA C22.2,No.60950-1InterfaceInput: One (1) Channel Output: One (1) Channel Output: One (1) ChannelAlarmInput: Two (2) Channel Output: One (1) ChannelElectrical24 VAC, 1.5 A (±10%), PoE+ (802.3at)	Web Viewer	IE 10, Firefox, Safari
CertificationsCertificationsCE: ENS5032/ENS5024/ENS0130-4 FCC: Part15 subpartB,ANSI C63.4- 2014 U: UL60950-1+CAN/CSA C22.2,No.60950-1InterfaceInput: One (1) Channel Output: One (1) ChannelAudio InterfaceInput: Two (2) Channel Output: One (1) ChannelAlarmInput: Two (2) Channel Output: One (1) ChannelElectrical24 VAC, 1.5 A (±10%), PoE+ (802.3at)	Management Software	Smart PSS, DSS
CertificationsCE: ENS5032/ENS5024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4-2014 UL: UL60950-1+CAN/CSA C22.2,No.60950-1InterfaceInput: One (1) Channel Output: One (1) ChannelAlarmInput: Two (2) Channel Output: One (1) ChannelElectrical24 VAC, 1.5 A (±10%), PoE+ (802.3at)	Mobile Operating System	IOS, Android, Windows Phone
CertificationsFCC: Part15 subpartB,ANSI C63.4- 2014 UL: UL60950-1+CAN/CSA C22.2,No.60950-1InterfaceInput: One (1) Channel Output: One (1) ChannelAudio InterfaceInput: Two (2) Channel Output: One (1) ChannelAlarmInput: Two (2) Channel Output: One (1) ChannelElectrical24 VAC, 1.5 A (±10%), PoE+ (802.3at)	Certifications	
Audio Interface Input: One (1) Channel Output: One (1) Channel Alarm Input: Two (2) Channel Output: One (1) Channel Electrical Power Supply 24 VAC, 1.5 A (±10%), PoE+ (802.3at)	Certifications	FCC: Part15 subpartB,ANSI C63.4- 2014
Audio Interface Output: One (1) Channel Alarm Input: Two (2) Channel Output: One (1) Channel Electrical Power Supply 24 VAC, 1.5 A (±10%), PoE+ (802.3at)	Interface	
Alarm Output: One (1) Channel Electrical Power Supply 24 VAC, 1.5 A (±10%), PoE+ (802.3at)	Audio Interface	
Power Supply 24 VAC, 1.5 A (±10%), PoE+ (802.3at)	Alarm	
	Electrical	
Power Consumption 12 W	Power Supply	24 VAC, 1.5 A (±10%), PoE+ (802.3at)
	Power Consumption	12 W

Lite Series | DH-SD42CA212TN-HNI

Enviro	nmer	ntal

Environmental	Environmental		
Operating Conditions	-30°C to 60°C (-22°F to +140°F), Less than 90% RH		
Vandal Resistance	IK10		
Construction			
Casing	Metal		
Dimensions	ø198.0 mm × 158.0 mm (ø7.80 in. x 6.22 in.)		
Net Weight	2.30 kg (5.07 lb)		
Gross Weight	3.30 kg (7.28 lb)		
Intelligence			
IVS triggers an alarm and takes a	defined action for the following events:		
Standard Features	 Tampering with the camera. Error writing to an onboard Micro SD card. Error sending or receiving data over the network. Unauthorized access to the camera. 		
Premium Features			
Motion	An object moves through any part of the scene.		
Tripwire	A target crosses a user-defined line.		

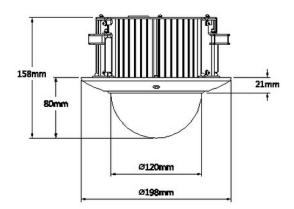
A target enters or exits a defined perimeter.

defined area within a scene.

A target leaves an object in designated area, or a target removes an object from the same designated area.

Detects and captures a snapshot of a human face in a

Dimensions (mm)



Ordering Information				
Туре	Part Number	Description		
2 MP PTZ Camera	DH-SD42CA212TN-HNI	2 MP 12x PTZ Network Camera, WDR, IVS		
Accessory, included	AC24V/1.5A	Power Supply		

Accessories

Intrusion

Object Advanced Features

Abandoned/Missing

Facial Detection

Included:



AC24V/1.5A Power Supply

