

DH-SD42C212T-HN 2MP 12x PTZ Network Camera



- · 1/2.7" 2Megapixel CMOS
- · Powerful 12x optical zoom
- · Support Triple-streams encoding
- · Max. 25/30fps@1080P, 25/30/50/60fps@720P
- · IVS(Optional)
- · Support PoE+
- · IK10



System Overview

Featuring with 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 25/30 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 (120dB) 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 to an IK10 impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force.

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-SD42C212T-HN

Technical Specification

| Camera |
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| Inage Sensor1/2.7" CMOSEffective Pixel>S20(H) x 1080(V).2 MegapixelsFAM/ROM256M/128MScanning SystewProgressiveMinimum IllumitonColor: 0.05Lux @F1.6; B/W: 0.005Lux @F1.6S/N RatioMore than 55dBS/N RatioN/AIR On/Off ContoryN/AIR On/Off ContoryN/AIR LDSN/AIR LDSN/AFocal LengthN/AFocal LengthSimm"61.2mmAngle of ViewF1.6" F3.0Angle of ViewH: 59.3" 5.2"Optical Zoom12xFocus Control12xFocus ControlNonm" 1000mmFocus ControlNen: 0.1" -300" /s; Tilt: 0.1" -102" /sPan/Tilt RangePan: 0.1" -300" /s; Tilt: 0.1" -102" /sProsetsSoldPresets SpeedSPattern, 8 Tour, Auto Pan, Auto ScanPresets SpeedNAProver up ActioSPattern, 8 Tour, Auto Pan, Pattern if there is no command in the specified periodProtocolViewAuto reactor to previous PT2 and lens statu after power failureIntelligenceNAVieloVielovier Kuita Ender Specifies SpecifiesVieloNAKortracking AutoKortracking AutoNaStreaming AutoStreaming AutoMai Streaming AutoStreaming AutoStreaming AutoStreaming AutoSub Streaming AutoSub Streaming AutoStreaming AutoStreaming AutoStr | Camera | | | | |
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| Focus Control Auto/Manual Close Focus Distarce 100mm* 1000mm PTZ Parn: 0* 7 360* endless; Tilt: 2* ~ 90*, auto flip 180* Manual Control Seed Pan: 0.1* ~ 300* /s; Tilt: 0.1* ~ 120* /s Manual Control Seed Pan: 0.1* ~ 300* /s; Tilt: 0.1* ~ 120* /s Preset Speed Pan: 300* /s; Tilt: 20* /s Preset Speed So0 Preset Seed S Pattern, 8 Tour, Auto Pan ,Auto Scan Speed Setup S Pattern, 8 Tour, Auto Pan ,Auto Scan 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 H-SD Intelligence N/A Video Tripwire, Intrusion,Abandoned/Missing, Face betection Video Streams Streaming Capatist 3 Streams Resolution Streams Main stream 1080P(1920×1080)/720P(1280×720)/D1(704×576/ 0/4×480)/CIF(352×288/352×240) Frame Rate Main stream 1080P(D1 (1 ~ 25/30fps), T20P(1-50/60fps) | Angle of View | | H: 59.3° ~ 5.2° | | |
| Close Focus Distance 100mm* 1000mm PTZ Pan/Tilt Range Pan: 0° ~ 360° endless; Tilt: -2° ~ 90°, auto flip 180° Manual Control Speed Pan: 0.1° ~ 300° /s; Tilt: 0.1° ~ 120° /s Preset Speed Pan: 300° /s; Tilt: 0.1° ~ 120° /s Preset Speed Pan: 300° /s; Tilt: 0.1° ~ 120° /s Preset Speed SP attern, 8 Tour, Auto Pan ,Auto Scan Speed Setup Human-oriented focal Length/ speed adaptation Power up Actior Auto restore to previous PTZ and lens status after power failure Idle Motion Cativate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period Protocol DH-SD Intelligence N/A Auto Tracking N/A Video Streams Streaming Caput Streams Resolution J Streams Resolution Streams Main stream 1080P(1920×1080)/720P(1280×720)/D1(704×576/ 704×876/ 504×88/352×240) Frame Rate Sub stream1 D1/CIF(1 ~ 25/30fps), 720P(1~50/60fps) | Optical Zoom | | 12x | | |
| PTZ Pan/Tilt Range Pan: 0° ~ 360° endless; Tilt: -2° ~ 90°, auto flip 180° Manual Control 5peed Pan: 0.1° ~ 300° /s; Tilt: 0.1° ~ 120° /s Preset Speed Pan: 300° /s; Tilt: 200° /s Preset Speed Solo Preset Speed Solo Preset Speed Solo Preset Speed Solo Preset Speed Sunor oriented focal Length / speed adaptation Speed Setup Human-oriented focal Length / speed adaptation Power up Activ Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period Protocol DH-SD Intelligence N/A Auto Tracking N/A Video Streams Streaming Cap=V B.264+/H.264 / MJPEG Streaming Cap=V Streams Resolution Streams Main stream 080P/D1 (1~ 25/30fps), 720P(1~S0/60fps) Sub stream1 DI/CIF(1 ~ 25/30fps), 720P(1~S0/60fps) | Focus Control | | Auto/Manual | | |
| Pan/Tilt RangePan: 0° ~ 360° endless; Tilt: -2° ~ 90°, auto flip 180°Manual Control > vedPan: 0.1° ~ 300° /s; Tilt: 0.1° ~ 120° /sPreset SpeedPan: 300° /s; Tilt: 200° /sPreset Speed300Presets300PTZ ModeS Pattern, 8 Tour, Auto Pan ,Auto ScanSpeed SetupHuman-oriented focal Length/ speed adaptationPower up ActiorAuto restore to previous PTZ and lens status after power failureIdle MotionAuto restore to previous PTZ and lens status after power failureIntelligenceDH-SDIntelligenceVideoVideoTripwire, Intrusion, Abandoned/Missing, Face DetectionVideoStreaming Cap>LStreaming Cap>Liv< | Close Focus Distance | | 100mm~ 1000mm | | |
| Manual Control SpeedPan: 0.1° ~300° /s; Tilt: 0.1° ~120° /sPreset SpeedPan: 300° /s; Tilt: 200° /sPresets300Presets300PTZ Mode5 Pattern, 8 Tour, Auto Pan, Auto ScanSpeed SetupHuman-oriented focal Length/ speed adaptationPower up ActiorAuto restore to previous PTZ and lens status after power failureIdle MotionActivate Preset/ Scan/ Tour/ Pattern if there is no command in the specified periodProtocolDH-SDIntelligenceTripwire, Intrusion, Abandoned/Missing, Face DetectionVideoTripwire, Intrusion, Abandoned/Missing, Face DetectionStreaming Capatity3 StreamsResolution1080P(1920×1080)/T20P(1280×720)/D1(704×576/ 704×480)/CIF(352×288/352×240)Frame RateSub stream1Sub stream1D1/CIF(1~25/30fps), 720P(1~50/60fps) | PTZ | | | | |
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| 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 Intelligence N/A Auto Tracking N/A IvS (optional) Tripwire, Intrusion, Abandoned/Missing, Face Detection Video Streaming Capaty Streaming Capaty A Streams Resolution 1080P(1920×1080)/720P(1280×720)/D1(704×576/ 704×480)/CIF(352×288/352×240) Frame Rate Sub stream1 1080P/D1 (1 ~ 25/30fps), 720P(1~50/60fps) | PTZ Mode | | 5 Pattern, 8 Tour, Auto Pan ,Auto Scan | | |
| Power up Action power failure Idle Motion Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period Protocol DH-SD Intelligence N/A Auto Tracking N/A IVS (optional) Tripwire, Intrusion, Abandoned/Missing, Face Detection Video H.264+/H.264 / MJPEG Streaming Capation S Streams Resolution 1080P(1920×1080)/720P(1280×720)/D1(704×576/ 704×480)/CIF(352×288/352×240) Frame Rate Sub stream1 1080P/D1 (1 ~ 25/30fps), 720P(1~50/60fps) | Speed Setup | | Human-oriented focal Length/ speed adaptation | | |
| Inde Motion command in the specified period Protocol DH-SD Intelligence N/A Auto Tracking N/A IVS (optional) Tripwire, Intrusion, Abandoned/Missing, Face Detection Video H.264+/H.264 / MJPEG Streaming Capability 3 Streams Resolution 1080P(1920×1080)/720P(1280×720)/D1(704×576/ 704×480)/CIF(352×288/352×240) Frame Rate Sub stream1 1080P/D1 (1 ~ 25/30fps), 720P(1~50/60fps) | Power up Action | | | | |
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| Auto Tracking N/A IvS (optional) Tripwire, Intrusion, Abandoned/Missing, Face Detection Video H.264+/H.264 / MJPEG Streaming Capability A Streams Resolution 1080P(1920×1080)/720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240) Frame Rate Sub stream1 Sub stream1 D1/CIF(1~25/30fps), 720P(1~50/60fps) | Protocol | | DH-SD | | |
| IVS (optional) Tripwire, Intrusion, Abandoned/Missing, Face Detection Video | Intelligence | | | | |
| Nos (optional) Detection Video H.264+/H.264 / MJPEG Streaming Capability 3 Streams Resolution 1080P(1920×1080)/720P(1280×720)/D1(704×576/ 704×480)/CIF(352×288/352×240) Frame Rate Main stream 1080P/D1 (1 ~ 25/30fps), 720P(1~50/60fps) Sub stream1 D1/CIF(1 ~ 25/30fps) | Auto Tracking | | N/A | | |
| Compression H.264+/H.264 / MJPEG Streaming Capability 3 Streams Resolution 1080P(1920×1080)/720P(1280×720)/D1(704×576/ 704×480)/CIF(352×288/352×240) Frame Rate Main stream 1080P/D1 (1 ~ 25/30fps), 720P(1~50/60fps) Frame Rate Sub stream1 D1/CIF(1 ~ 25/30fps) | IVS (optional) | | | | |
| Streaming Capability 3 Streams Resolution 1080P(1920×1080)/720P(1280×720)/D1(704×576/ 704×480)/CIF(352×288/352×240) Main stream 1080P/D1 (1 ~ 25/30fps), 720P(1~50/60fps) Frame Rate Sub stream1 D1/CIF(1 ~ 25/30fps) | Video | | | | |
| Resolution 1080P(1920×1080)/720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240) Main stream 1080P/D1 (1 ~ 25/30fps), 720P(1~50/60fps) Frame Rate Sub stream1 D1/CIF(1 ~ 25/30fps) | Compression | | H.264+/H.264 / MJPEG | | |
| Resolution 704×480)/CIF(352×288/352×240) Main stream 1080P/D1 (1 ~ 25/30fps), 720P(1~50/60fps) Frame Rate Sub stream1 D1/CIF(1 ~ 25/30fps) | Streaming Capability | | 3 Streams | | |
| Frame Rate Sub stream1 D1/CIF(1 ~ 25/30fps) | Resolution | | | | |
| | | Main stream | 1080P/D1 (1 ~ 25/30fps), 720P(1~50/60fps) | | |
| Sub stream2 720P/D1/CIF (1 ~ 25/30fps) | Frame Rate | Sub stream1 | D1/CIF(1 ~ 25/30fps) | | |
| | | Sub stream2 | 720P/D1/CIF (1 ~ 25/30fps) | | |

| Bit Rate Control | CBR/VBR | | | |
|---|--|--|--|--|
| Bit Rate | H.264+/H.264: 448K ~ 8192Kbps, MJPEG: 5120K ~ 10240Kbps | | | |
| Day/Night | Auto(ICR) / Color / B/W | | | |
| Backlight Compensation | BLC / HLC / WDR(120dB) | | | |
| White Balance | Auto,ATW,Indoor,Outdoor,Manual | | | |
| Gain Control | Auto / Manual | | | |
| Noise Reduction | Ultra DNR (2D/3D) | | | |
| Motion Detetion | Support | | | |
| Region of Interest | Support | | | |
| Electronic Image Stabilization (EIS) | N/A | | | |
| Defog | Support | | | |
| Digital Zoom | 16x | | | |
| Flip | 180° | | | |
| Privacy Masking | Up to 24 areas | | | |
| Audio | | | | |
| Compression | G.711a/G.711mu/PCM | | | |
| Network | | | | |
| Ethernet | RJ-45 (10/100Base-T) | | | |
| Protocol | IPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPnP, ICMP,IGMP,SNMP,RTSP,RTP, SMTP, NTP,DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x | | | |
| Interoperability | ONVIF, PSIA, CGI | | | |
| Streaming Method | Unicast / Multicast | | | |
| Max. User Access | 20 users | | | |
| Edge Storage | NAS (Network Attached Storage),Local PC for instant recording, 128GB | | | |
| Web Viewer | IE10/Google/Firefox/Safari | | | |
| Management Software | Smart PSS, DSS | | | |
| Smart Phone | iPhone, iPad, Android, Windows Phone | | | |
| Certifications | | | | |
| Certifications | CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014 UL: UL60950-1+CAN/CSA C22.2,No.60950-1 | | | |
| Interface | | | | |
| Video Interface | N/A | | | |
| Audio Interface | 1/1 | | | |
| RS485 | N/A | | | |
| Alarm | 2/1 | | | |
| Electrical | | | | |
| Power Supply | AC24V/1.5A(±10%), PoE+(802.3at) | | | |
| Power Consumption | 12W | | | |
| | | | | |

Lite Series | DH-SD42C212T-HN

Environmental

| Operating Conditions | -30°C $^{\sim}$ 60°C (-22°F $^{\sim}$ +140°F) / Less than 90% RH | | | |
|----------------------|--|--|--|--|
| Ingress Protection | N/A | | | |
| Vandal Resistance | IK10 | | | |
| Construction | | | | |
| Casing | Metal | | | |
| Dimensions | Φ198(mm)×158(mm) | | | |
| Net Weight | 2.3kg(5.07lb) | | | |
| Gross Weight | 3.3kg(7.28lb) | | | |

Ordering Information

| Туре | Part Number | Description |
|-------------------|------------------|--|
| 2MP PTZ Camera | DH-SD42C212T-HN | 2MP 12x PTZ Network Camera, WDR, PAL |
| | DH-SD42C212TN-HN | 2MP 12x PTZ Network Camera, WDR, NTSC |
| | SD42C212T-HN | 2MP 12x PTZ Network Camera, WDR, PAL |
| | SD42C212TN-HN | 2MP 12x PTZ Network Camera, WDR, NTSC |
| Accessories | AC24V/1.5A | Power Supply |

Accessories

Included:



AC24V/1.5A Power Supply

Dimensions (mm)



