

# DH-SD29204T-GN-W

2MP 4x IR PTZ Network Camera



- 1/2.7" 2Megapixel CMOS
- Powerful 4x optical zoom
- Support Triple-streams encoding
- WDR, Day/Night(ICR), Ultra DNR
- Max. 25/30fps@1080P, 25/30/50/60fps@720P
- IVS
- Support Wifi
- IR distance up to 30m



## System Overview

Featuring with powerful optical zoom and accurate pan/tilt/zoom performance, the SD29 series PTZ camera can provide large monitoring range and great detail. The camera delivers 1080P resolution at 25/30 fps, with 4x optical zoom. SD49 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

### 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.

### 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.

### Environmental

With a temperature range of -30 °C to +60 °C (-22 °F to +140 °F), the camera is designed for extreme temperature environments.

## 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.

### Technical Specification

#### Camera

|                          |  |
|--------------------------|--|
| Image Sensor             | 1/2.7" CMOS                            |
| Effective Pixels         | 1920(H) x 1080(V), 2 Megapixels        |
| RAM/ROM                  | 256M/128M                              |
| Scanning System          | Progressive                            |
| Electronic Shutter Speed | 1/1s~1/300,000s                        |
| Minimum Illumination     | Color: 0.05Lux@F1.6; 0Lux@F1.6 (IR on) |
| S/N Ratio                | More than 50dB                         |
| IR Distance              | Distance up to 30m (98ft)              |
| IR On/Off Control        | Auto/Manual                            |
| IR LEDs                  | 4                                      |

#### Lens

|                      |                 |
|----------------------|-----------------|
| Focal Length         | 2.7mm~11mm      |
| Max. Aperture        | F1.6 ~ F2.8     |
| Angle of View        | H: 112.5° ~ 30° |
| Optical Zoom         | 4x              |
| Focus Control        | Auto/Manual     |
| Close Focus Distance | 100mm~ 1000mm   |

#### DORI Distance

\*Note: The DORI distance is a "general proximity" of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.

| Detect      | Observe    | Recognize | Identify  |
|-------------|------------|-----------|-----------|
| 120m(394ft) | 48m(157ft) | 24m(79ft) | 12m(39ft) |

#### PTZ

|                      |   |
|----------------------|---|
| Pan/Tilt Range       | Pan: 0° ~ 360° limited; Tilt: 0° ~ 90°  |
| Manual Control Speed | Pan: 0.1° ~100° /s; Tilt: 0.1° ~60° /s  |
| Preset Speed         | Pan: 100° /s; Tilt: 60° /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   |

#### Intelligence

|               |  |
|---------------|--|
| Auto Tracking | N/A  |
| IVS           | Tripwire, Intrusion, Abandoned/Missing, Face Detection |

#### Video

|                                      |  |  |
|--------------------------------------|--|--|
| 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) |
|                                      | 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.711u(32kbps)/PCM(128kbps) |
|-------------|------------------------------------|

#### Network

|                     |  |
|---------------------|--|
| Ethernet            | RJ-45 (10/100Base-T)   |
| Wi-Fi               | Support  |
| 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, Micro SD card 128GB   |
| Web Viewer          | IE, Chrome, Firefox, Safari  |
| Management Software | Smart PSS, DSS   |
| Smart Phone         | IOS, Android   |

#### Certifications

|                |   |
|----------------|---|
| Certifications | CE: EN55032/EN55024/EN50130-4<br>FCC: Part15 subpartB, ANSI C63.4- 2014<br>UL: UL60950-1+CAN/CSA C22.2.No.60950-1 |
|----------------|---|

Interface

|                 |              |
|-----------------|--------------|
| Video Interface | N/A          |
| Audio Interface | Built-in Mic |
| RS485           | N/A          |
| Alarm           | N/A          |

Electrical

|                   |                 |
|-------------------|-----------------|
| Power Supply      | DC 12V/1.5A     |
| Power Consumption | 10W,13W (IR on) |

Environmental

|                      |  |
|----------------------|--|
| Operating Conditions | -30°C ~ 60°C (-22°F ~ +140°F) / Less than 90% RH |
| Ingress Protection   | N/A  |
| Vandal Resistance    | N/A  |

Construction

|              |                          |
|--------------|--------------------------|
| Casing       | Metal                    |
| Dimensions   | Φ132.7 (mm) x 116.5 (mm) |
| Net Weight   | 0.95kg(2.09lb)           |
| Gross Weight | 1kg(2.20lb)              |

Ordering Information

| Type           | Part Number       | Description                             |
|----------------|-------------------|---|
| 2MP PTZ Camera | DH-SD29204T-GN-W  | 2MP 4x IR PTZ Network Camera, WDR, PAL  |
|                | DH-SD29204TN-GN-W | 2MP 4x IR PTZ Network Camera, WDR, NTSC |
|                | SD29204T-GN-W     | 2MP 4x IR PTZ Network Camera, WDR, PAL  |
|                | SD29204TN-GN-W    | 2MP 4x IR PTZ Network Camera, WDR, NTSC |
| Accessories    | PFB302S           | Wall Mount                              |
|                | PFA103            | Mount Adapter                           |
|                | DC12V/2A          | Power Supply                            |
|                | PFB300C           | Ceiling Mount                           |
|                | PFA150            | Pole Mount                              |
|                | PFA151            | Corner Mount                            |

Accessories

Optional:



PFB302S  
Wall Mount



PFA103  
Mount Adapter



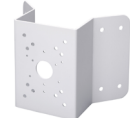
DC12V/2A  
Power Supply



PFA150  
Pole Mount



PFB300C  
Ceiling Mount



PFA151  
Corner Mount

| Wall Mount     | Pole Mount            |
|----------------|-----------------------|
| PFA103+PFB302S | PFA103+PFB302S+PFA150 |
|                |                       |
| Ceiling Mount  |                       |
| PFA103+PFB300C |                       |
|                |                       |

Dimensions (mm)

