

# DH-SD59220T-HN

2MP 20x IR PTZ Network Camera



- 1/2.8" 2Megapixel Exmor CMOS
- Powerful 20x optical zoom
- Support Triple-streams encoding
- Max. 25/30fps@1080P, 25/30/50/60fps@720P
- IVS(Optional)
- Support PoE+
- IR distance up to 100m
- IP66



## System Overview

Featuring with powerful optical zoom and accurate pan/tilt/zoom performance, the SD59 series PTZ camera can provide large monitoring range and great detail. The camera delivers 1080P resolution at 25/30 fps, with 20x optical zoom. SD59 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.

### Environmental

With a temperature range of -40 °C to +70 °C (-40 °F to +158 °F), the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP66 rating makes it suitable for demanding outdoor applications.

### Protection

This camera suits even the harsh conditions for outdoor applications. Its 6KV 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.

### Technical Specification

#### Camera

Image Sensor	1/2.8" Exmor CMOS
Effective Pixels	1920(H) x 1080(V), 2 Megapixels
RAM/ROM	256M/128M
Scanning System	Progressive
Minimum Illumination	Color: 0.05Lux@F1.4; 0Lux@F1.4(IR on)
S/N Ratio	More than 55dB
IR Distance	Distance up to 100m (328ft)
IR On/Off Control	Auto/Manual
IR LEDs	4

#### Lens

Focal Length	4.7mm~94mm
Max. Aperture	F1.4 ~ F2.6
Angle of View	H: 56.1° ~ 3.1°
Optical Zoom	20x
Focus Control	Auto/Manual
Close Focus Distance	100mm~ 1000mm

#### PTZ

Pan/Tilt Range	Pan: 0° ~ 360° endless; Tilt: -15° ~ 90°, auto flip 180°
Manual Control Speed	Pan: 0.1° ~ 300° /s; Tilt: 0.1° ~ 200° /s
Preset Speed	Pan: 400° /s; Tilt: 300° /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 (optional)	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 / DWDR
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)
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#### 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
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#### Interface

Video Interface	N/A
Audio Interface	1/1
RS485	N/A
Alarm	2/1

#### Electrical

Power Supply	AC24V/3A(±10%), PoE+(802.3at)
Power Consumption	13W,23W (IR on)

Environmental

Operating Conditions	-40°C ~ 70°C (-40°F ~ +158°F) / Less than 90% RH
Ingress Protection	IP66
Vandal Resistance	N/A

Construction

Casing	Metal
Dimensions	Φ186.0(mm) x 309(mm)
Net Weight	3.5kg(7.72lb)
Gross Weight	6.8kg(14.99lb)

Ordering Information

Type	Part Number	Description
2MP PTZ Camera	DH-SD59220T-HN	2MP 20x IR PTZ Network Camera, PAL
	DH-SD59220TN-HN	2MP 20x IR PTZ Network Camera, NTSC
	SD59220T-HN	2MP 20x IR PTZ Network Camera, PAL
	SD59220TN-HN	2MP 20x IR PTZ Network Camera, NTSC
Accessories	PFB300S	Wall Mount
	PFA110	Mount Adapter
	AC24V/3A	Power Supply
	PFA140	Power box
	PFB300C	Ceiling Mount
	PFA120	Junction Box
	PFA150	Pole Mount
	PFA151	Corner Mount
PFB303S	Parapet mount	

Accessories

Included:



PFB300S  
Wall Mount



PFA110  
Mount Adapter



AC24V/3A  
Power Supply

Optional:



PFA140  
Power box



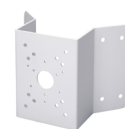
PFB300C  
Ceiling Mount



PFA120  
Junction Box



PFA150  
Pole Mount



PFA151  
Corner Mount



PFB303S  
Parapet Mount

Ceiling Mount	Junction Mount
PFA110 + PFB300C	PFA110 + PFB300S + PFA120
Power Box Mount	Pole Mount
PFA110 + PFB300S + PFA140	PFA110 + PFB300S + PFA150
Corner Mount	Parapet Mount
PFA110 + PFB300S + PFA151	PFA110 + PFB303S

Dimensions (mm)

