DH-SD22204T-GN-W

2MP 4x 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(Optional)
· Support Wifi
· IP66, IK10

WDR · WiFi · IP66 · Vandal-proof

System Overview

Featuring with powerful optical zoom and accurate pan/tilt/zoom performance, the SD22 series PTZ camera can provide large monitoring range and great detail. The camera delivers 1080P resolution at 25/30 fps, with 4x optical zoom. SD22 series PTZ is equipped with smooth control, high quality image and good protection, which make it can meet small size 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. The camera complies an IK10 impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. Subjected and certified to rigorous dust and water immersion tests, the IP66 rating makes it suitable for demanding outdoor applications.

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.

ONVIF PSIA

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
Minimum Illumination	Color: 0.05Lux@F1.6; B/W: 0.005Lux@F1.6
S/N Ratio	More than 50dB
IR Distance	N/A
IR On/Off Control	N/A
IR LEDs	N/A

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

PTZ

Pan/Tilt Range	Pan: 0° ~ 355°; 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 (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 / 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

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, 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	N/A
RS485	N/A
Alarm	N/A

Electrical

Power Supply	DC 12V/1.5A
Power Consumption	10W

Environmental

Operating Conditions	-30°C ~ 60°C (-22°F ~ +140°F) / Less than 90% RH
Ingress Protection	IP66
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	Φ122 (mm) x 89 (mm)
Net Weight	0.66kg(1.46lb)
Gross Weight	0.71kg(1.57lb)

Ordering Information

Type	Part Number	Description
2MP PTZ Camera	DH-SD22204T-GN-W	2MP 4x PTZ Network Camera, WDR, PAL
	DH-SD22204TN-GN-W	2MP 4x PTZ Network Camera, WDR, NTSC
	SD22204T-GN-W	2MP 4x PTZ Network Camera, WDR, PAL
	SD22204TN-GN-W	2MP 4x PTZ Network Camera, WDR, NTSC
Accessories	PFA137	Mount Adapter
	DC12V/1.5A	Power Supply
	PFB202W	Wall Mount
	PFB200C	In-ceiling Mount
	PFA152	Pole Mount

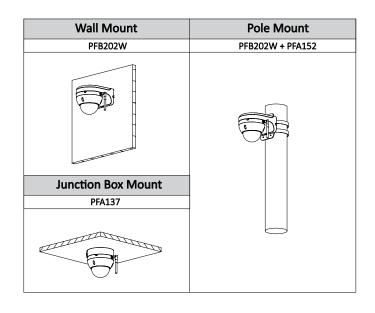## Accessories

Optional :

PFA137
Mount Adapter

DC12V/3A
Power Supply

PFB202W
Wall Mount

PFA152
Pole Mount

PFB200C
Ceiling Mount

Wall Mount	Pole Mount
PFB202W	PFB202W + PFA152

Junction Box Mount
PFA137

Dimensions (mm)