

DH-SD22204UE-GN-W

2MP 4x Starlight PTZ Wi-Fi Network Camera



- · 1/2.8" STARVIS™ CMOS
- · Powerful 4x optical zoom
- · Support Starlight
- · WDR, Day/Night(ICR), Ultra DNR
- · Max. 25/30fps@1080P
- · Max 100°/s pan speed
- · IVS
- · Support Wi-Fi
- · IP66, IK10













System Overview

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, the camera provides a wide monitoring range and great detail. The camera delivers 2MP resolution at 25/30fps. The camera is equipped with smooth control, high quality image, and good protection, meeting compact size demands of video surveillance applications.

Functions

Wide Dynamic Range

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. 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.

High Efficiency Video Coding (H.265)

The H.265 (ITU-T VCEG) video compression standard offers double the data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate, as compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and difference-coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from -30 $^{\circ}$ C to +60 $^{\circ}$ C (-22 $^{\circ}$ F to +140 $^{\circ}$ F) with 95% humidity. The camera complies with the IK10 Vandal Resistance impact rating. Subjected to rigorous dust and water immersion tests and certified to the IP66 Ingress Protection rating makes it suitable for demanding outdoor applications.

Interoperability

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



Technical Specification				IVS	Tripwire, Intrusion, Abandoned/Missing
Camera			Advanced Intelligent Functions	Face Detection	
Image Sensor	mage Sensor 1/2.8″ STARVIS™ CMOS		Video		
Effective Pixels	ffective Pixels 1920(H) x 1080(V), 2 Megapixels		Compression	H.265/H.264/MJPEG(Sub Stream)	
RAM/ROM 256M/128M			Streaming Capability	3 Streams	
Electronic Shutter Speed 1/		1/1s~1/30,000s		Resolution	1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/CIF(352×288/352:
Scanning System		Progressive		Frame Rate	Main stream: 1080P/720P/D1 (1 ~ 25/30f
Minimum Illumination		Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6			Sub stream1: D1/CIF(1 ~ 25/30fps)
IR Distance		N/A			Sub stream2: 720P/D1/CIF (1 ~ 25/30fps)
IR On/Off Control		N/A		Bit Rate Control	CBR/VBR
IR LEDs		N/A		Bit Rate	H.265/H.264: 448K ~ 8192Kbps, MJPEG: 5
Lens				bit rate	10240Kbps
Focal Length		2.7mm~11mm		Day/Night	Auto(ICR) / Color / B/W
Max. Aperture		F1.6		Backlight Compensation	BLC / HLC / WDR (120dB)
Angle of View		H: 112.5° ~ 30°		White Balance	Auto,ATW,Indoor,Outdoor,Manual
Optical Zoom		4x		Gain Control	Auto / Manual
Focus Control		Auto/Manual		Noise Reduction	Ultra DNR (2D/3D)
Close Focus Distan	ce	100mm~ 1000mm		Motion Detection	Support
DORI Distance				Region of Interest	Support
		ral proximity" of distance w		Electronic Image Stabilization (EIS)	N/A
sensor specificatio	n and lab test resu	eeds. The DORI distance is ult according to EN 62676-4	4 which defines the	Defog	Support
		ze and Identify respectively		Digital Zoom	16x
Detect	Observe	Recognize	Identify	Flip	180°
124.1m(407ft)	49.7m(163ft)	24.8m(81ft)	12.4m(40ft)	Privacy Masking	Up to 24 areas
			PTZ		
Pan/Tilt Range P		Pan: 0° ~ 355°; Tilt: 0° ~ 90°		Network	
		,		Network Ethernet	RJ-45 (10XBase-T/100Base-TX)
·		Pan: 0.1° ~100° /s; Tilt: 0.1			RJ-45 (10XBase-T/100Base-TX) Support
Preset Speed		,		Ethernet	Support IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP,
Preset Speed Presets		Pan: 0.1° ~100° /s; Tilt: 0.1 Pan: 100° /s; Tilt: 60° /s	° ~60° /s	Ethernet Wi-Fi	Support IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP,
Preset Speed Presets PTZ Mode		Pan: 0.1° ~100° /s; Tilt: 0.1 Pan: 100° /s; Tilt: 60° /s 300	° ~60° /s	Ethernet Wi-Fi Protocol	Support IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjo
Preset Speed Presets PTZ Mode Speed Setup		Pan: 0.1° ~100° /s; Tilt: 0.1 Pan: 100° /s; Tilt: 60° /s 300 8 Tour(up to 32 preset per	°~60°/s tour) gth/ speed adaptation	Ethernet Wi-Fi Protocol Interoperability	Support IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjo ONVIF Profile S&G, API
Preset Speed Presets PTZ Mode Speed Setup Power up Action		Pan: 0.1° ~100° /s; Tilt: 0.1 Pan: 100° /s; Tilt: 60° /s 300 8 Tour(up to 32 preset per Human-oriented focal Leng Auto restore to previous P	e° ~60° /s tour) gth/ speed adaptation TZ and lens status after	Ethernet Wi-Fi Protocol Interoperability Streaming Method	Support IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjc ONVIF Profile S&G, API Unicast / Multicast 20 users
Preset Speed Presets PTZ Mode Speed Setup Power up Action		Pan: 0.1° ~100° /s; Tilt: 0.1 Pan: 100° /s; Tilt: 60° /s 300 8 Tour(up to 32 preset per Human-oriented focal Leng Auto restore to previous P power failure Activate Preset/Tour if the	e° ~60° /s tour) gth/ speed adaptation TZ and lens status after	Ethernet Wi-Fi Protocol Interoperability Streaming Method Max. User Access	Support IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjc ONVIF Profile S&G, API Unicast / Multicast 20 users NAS (Network Attached Storage),Local PC
Preset Speed Presets PTZ Mode Speed Setup Power up Action Idle Motion Protocol		Pan: 0.1° ~100° /s; Tilt: 0.1 Pan: 100° /s; Tilt: 60° /s 300 8 Tour(up to 32 preset per Human-oriented focal Leng Auto restore to previous P' power failure Activate Preset/Tour if the specified period	e° ~60° /s tour) gth/ speed adaptation TZ and lens status after	Ethernet Wi-Fi Protocol Interoperability Streaming Method Max. User Access Edge Storage	Support IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjo ONVIF Profile S&G, API Unicast / Multicast 20 users NAS (Network Attached Storage),Local PC instant recording, Micro SD card 128GB
Preset Speed Presets PTZ Mode Speed Setup Power up Action Idle Motion Protocol Intelligence		Pan: 0.1° ~100° /s; Tilt: 0.1 Pan: 100° /s; Tilt: 60° /s 300 8 Tour(up to 32 preset per Human-oriented focal Leng Auto restore to previous P' power failure Activate Preset/Tour if the specified period DH-SD Motion detection, Video to	e° ~60° /s I tour) gth/ speed adaptation TZ and lens status after re is no command in the	Ethernet Wi-Fi Protocol Interoperability Streaming Method Max. User Access Edge Storage Web Viewer	Support IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjo ONVIF Profile S&G, API Unicast / Multicast 20 users NAS (Network Attached Storage), Local PC instant recording, Micro SD card 128GB IE, Chrome, Firefox, Safari
Manual Control Sp Preset Speed Presets PTZ Mode Speed Setup Power up Action Idle Motion Protocol Intelligence Event Trigger		Pan: 0.1° ~100° /s; Tilt: 0.1 Pan: 100° /s; Tilt: 60° /s 300 8 Tour(up to 32 preset per Human-oriented focal Leng Auto restore to previous P' power failure Activate Preset/Tour if the specified period DH-SD	e° ~60° /s I tour) gth/ speed adaptation TZ and lens status after re is no command in the	Ethernet Wi-Fi Protocol Interoperability Streaming Method Max. User Access Edge Storage Web Viewer Management Software	Support IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjo ONVIF Profile S&G, API Unicast / Multicast 20 users NAS (Network Attached Storage),Local Poinstant recording, Micro SD card 128GB IE, Chrome, Firefox, Safari Smart PSS, DSS, DMSS

Interface

Video Interface	N/A
RS485	N/A
Audio I/O	N/A
Alarm I/O	N/A

Electrical

Power Supply	DC 12V/1.5A
Power Consumption	5.5W

Environmental

Operating Conditions	-30°C $^{\sim}$ 60°C (-22°F $^{\sim}$ +140°F) / Less than 95% RH
Ingress Protection	IP66
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	Ф122 (mm) x 89 (mm)
Net Weight	0.52kg(1.23lb)
Gross Weight	0.73kg(1.61lb)

Ordering Information Type Part Number Description 2MP 4x Starlight PTZ Wi-Fi DH-SD22204UE-GN-W Network Camera, WDR, PAL 2MP 4x Starlight PTZ Wi-Fi DH-SD22204UEN-GN-W Network Camera, WDR, NTSC 2MP PTZ Camera 2MP 4x Starlight PTZ Wi-Fi SD22204UE-GN-W Network Camera, WDR, PAL 2MP 4x Starlight PTZ Wi-Fi SD22204UEN-GN-W Network Camera, WDR, NTSC PFA137 Mount Adapter DC12V/2A Power Adapter Accessories PFB203W Wall Mount PFA152-E Pole Mount

Accessories

Optional:







DC12V/2A Power Adapter



PFB203W Wall Mount



PFA152-E Pole Mount

Wall Mount	Pole Mount
PFB203W	PFB203W + PFA152-E
Junction Box Mount	
PFA137	

Dimensions (mm)



