

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 Spe	cification				IVS	Tripwire, Intrusion, Ab
Camera					Advanced Intelligent Functions	Face Detection
Image Sensor 1/2.8" STARVIS™ CMOS				Video		
Effective Pixels		1920(H) x 1080(V), 2 Megapixels			Compression	H.265/H.264/MJPEG
RAM/ROM		256M/128M			Streaming Capability	3 Streams
Electronic Shutter Speed		1/1s~1/30,000s			Resolution	1080P(1920×1080)/ D1(704×576/704×48
Scanning System		Progressive			Frame Rate	Main stream: 1080P
Minimum Illumination		Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6				Sub stream1: D1/CIF
IR Distance		N/A			Traine nate	Sub stream2: 720P/I
IR On/Off Control		N/A			Bit Rate Control	CBR/VBR
IR LEDs		N/A				H.265/H.264: 448K
Lens					Bit Rate	10240Kbps
Focal Length		2.7mm′	~11mm		Day/Night	Auto(ICR) / Color / E
Max. Aperture		F1.6			Backlight Compensation	BLC / HLC / WDR (12
Angle of View		H: 112.	5° ~ 30°		White Balance	Auto,ATW,Indoor,Ou
Optical Zoom		4x			Gain Control	Auto / Manual
Focus Control			Auto/Manual		Noise Reduction	Ultra DNR (2D/3D)
Close Focus Distance	ce	100mm~ 1000mm			Motion Detection	Support
DORI Distance					Region of Interest	Support
	stance is a "gen	eral proxi	imity" of distance v	which makes it easy to	Electronic Image Stabilization (EIS)	N/A
pinpoint the right of sensor specification	amera for your in and lab test re	needs. Th sult accor	ne DORI distance is rding to EN 62676-4	calculated based on 4 which defines the	Defog	Support
		nize and I	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					Network	
Pan/Tilt Range			~ 355°; Tilt: 0° ~ 90		Ethernet	RJ-45 (10XBase-T/10
Manual Control Sp	eed	Pan: 0.1	1° ~100° /s; Tilt: 0.1	° ~60° /s	Wi-Fi	Support
Preset Speed		Pan: 100° /s; Tilt: 60° /s				IPv4/IPv6, HTTP, HT
Presets		300			Protocol	ICMP, IGMP, SNMP, DNS,PPPOE,DDNS,F
PTZ Mode		8 Tour(up to 32 preset per	tour)	Interoperability	ONVIF Profile S&G,
Speed Setup				gth/ speed adaptation	Streaming Method	Unicast / Multicast
Power up Action		Auto restore to previous PTZ and lens status after power failure			Max. User Access	20 users
Idle Motion		Activate Preset/Tour if there is no command in the specified period			Edge Storage	NAS (Network Attac instant recording, M
Protocol		DH-SD			Web Viewer	IE, Chrome, Firefox,
Intelligence				Management Software	Smart PSS, DSS, DM	
		Motion detection, Video tampering, Network			Smart Phone	IOS, Android
Event Trigger		disconnection, IP address conflict, Illegal access, Storage anomaly		conflict, Illegal access,	Certifications	
Auto Tracking		N/A				CE: EN55032/EN550

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)



