

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.





Lite Series Dn-3D222040E-GN-VV							
Technical Specification						IVS	Tripwire, Intrusion, Abandoned/Missing
Camera				Advanced Intelligent Functions	Face Detection		
Image Sensor 1/2.8" STARVIS™ C			STARVIS™ CMOS			Video	
Effective 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		1/1s~1/30,000s				Resolution	1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/CIF(352×288/352×240)
Scanning System		Progressive				Frame Rate	Main stream: 1080P/720P/D1 (1 ~ 25/30fps)
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
		N/A				Bit Rate	H.265/H.264: 448K ~ 8192Kbps, MJPEG: 5120K ~ 10240Kbps
Lens		2.7	o W 1 1 ma ma			Day/Night	Auto(ICR) / Color / B/W
		2.7mm~11mm				Backlight Compensation	BLC / HLC / WDR (120dB)
			F1.6			White Balance	Auto,ATW,Indoor,Outdoor,Manual
			H: 112.5° ~ 30°			Gain Control	Auto / Manual
Optical Zoom 4x						Noise Reduction	Ultra DNR (2D/3D)
			Auto/Manual 100mm~ 1000mm			Motion Detection	Support
	.c	1001111	100011111			Region of Interest	Support
*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				Electronic Image Stabilization (EIS)	N/A		
sensor specification	and lab test res	ult acco	ording to EN 62676-4 w Identify respectively.			Defog	Support
Detect	Observe	iize ariu	Recognize	Identify		Digital Zoom	16x
124.1m(407ft)	49.7m(163ft))	24.8m(81ft)	12.4m(40ft)		Flip	180°
PTZ			(,			Privacy Masking	Up to 24 areas
Pan/Tilt Range		Pan: 0	° ~ 355°; Tilt: 0° ~ 90°			Network	
Manual Control Spe	ed.	Pan: 0.1° ~100° /s; Tilt: 0.1° ~60° /s				Ethernet	RJ-45 (10XBase-T/100Base-TX)
		Pan: 100° /s; Tilt: 60° /s				Wi-Fi	Support
		300				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
PTZ Mode		8 Tour(up to 32 preset per tour)				Interoperability	ONVIF Profile S&G, API
Speed Setup		Human-oriented focal Length/ 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 Attached Storage), Local PC for instant recording, Micro SD card 128GB
Protocol		DH-SD				Web Viewer	IE, Chrome, Firefox, Safari
Intelligence					Management Software	Smart PSS, DSS, DMSS	
Event Trigger		Motion detection, Video tampering, Network disconnection, IP address conflict, Illegal access,				Smart Phone	IOS, Android



Event Trigger

Auto Tracking

Certifications

Certifications

disconnection, IP address conflict, Illegal access,

N/A

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
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



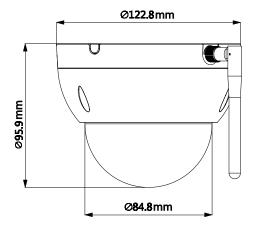
PFB203W Wall Mount



PFA152-E Pole Mount

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

Dimensions (mm)







Rev 001.001