

# DH-SD29204UE-GN

2MP 4x Starlight IR PTZ Network Camera



- · 1/2.8" STARVIS™ CMOS
- · Powerful 4x optical zoom
- · Support Triple-streams encoding
- · WDR, Day/Night(ICR), Ultra DNR
- · Max. 25/30fps@1080P
- · IVS
- · Support PoE
- · IR distance up to 30m



# **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 °C to +60 °C (-22 °F to +140 °F) with 90% humidity.

## Interoperability

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



Technical Specification						Advanced Intelligent Functions	Face Detection
Camera						Video	
Image Sensor		1/2.8" STARVIS™ CMOS				Compression	H.265/H.264/MJPEG(Sub Stream)
Effective Pixels		1920(H) x 1080(V), 2 Megapixels				Streaming Capability	3 Streams
RAM/ROM		256M/128M				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)	
Electronic Shutter Speed		1/1s~1/30,000s				Sub stream1: D1/CIF(1 ~ 25/30fps)	
Minimum Illumination		Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6; 0Lux@F1.6 (IR on)					Sub stream2: 720P/D1/CIF (1 ~ 25/30fps)
IR Distance		Distance up to 30m (98ft)				Bit Rate Control	CBR/VBR
IR On/Off Control		Auto/Manual				Bit Rate	H.265/H.264: 448K ~ 8192Kbps, MJPEG: 5120K ~ 10240Kbps
IR LEDs		2				Day/Night	Auto(ICR) / Color / B/W
Lens						Backlight Compensation	BLC / HLC / WDR (120dB)
Focal Length		2.7mm^	11mm			White Balance	Auto, ATW, Indoor, Outdoor, Manual
Max. Aperture		F1.6				Gain Control	Auto / Manual
Angle of View		H: 112.5° ~ 30°				Noise Reduction	Ultra DNR (2D/3D)
Optical Zoom 4x		4x	4x			Motion Detection	Support
Focus Control Auto,		Auto/M	Auto/Manual			Region of Interest	support
Close Focus Distance 10		100mm	100mm~ 1000mm			Electronic Image Stabilization (EIS)	N/A
DORI Distance						Defog	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 sensor specification and lab test result according to EN 62676-4 which defines the			Digital Zoom	16x			
		nize and Identify respectively.				Flip	180°
Detect	Observe		Recognize	Identify		Privacy Masking	Up to 24 areas
120m(394ft)	48m(157ft)		24m(79ft)	12m(39ft)		Audio	
PTZ						Compression	G.711a/G.711mu/PCM/G.726/AAC/G722.1/G.729/ MPEG2-Layer2
Pan/Tilt Range		Pan: 0° ~ 360° limited; Tilt: 0° ~ 90°				Network	mi Edit taye.E
Manual Control Spe	ed	Pan: 0.1° ~100° /s; Tilt: 0.1° ~60° /s				Ethernet	RJ-45 (10XBase-T/100Base-TX)
Preset Speed		Pan: 100° /s; Tilt: 60° /s				Wifi	N/A
Presets PTZ Mode		300 5 Pattern, 8 Tour(up to 32 preset per tour),Auto Scan				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,802.1
Speed Setup		Human-oriented focal Length/ speed adaptation				Interoperability	ONVIF Profile S&G, API
Power up Action		Auto res	store to previous PTZ			Streaming Method	Unicast / Multicast
		power failure  Activate Preset/ Scan/ Tour/ Pattern if there is no				Max. User Access	20 users
Idle Motion		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  Event Trigger		Motion detection, Video tampering, Network disconnection, IP address conflict, Illegal access, Storage anomaly				Management Software	Smart PSS, DSS, DMSS
						Smart Phone	IOS, Android
Auto Tracking		N/A				Certifications	
IVS		Tripwire, Intrusion, Abandoned/Missing				Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014

### Interface

Video Interface	N/A
RS485	N/A
Audio I/O	Built-in Mic
Alarm I/O	N/A

#### Electrical

Power Supply	DC 12V/1.5A, PoE(802.3af)	
Power Consumption	10W,13W (IR on)	

#### **Environmental**

Operating Conditions	-30°C $^{\sim}$ 60°C (-22°F $^{\sim}$ +140°F) / Less than 90% RH	
Ingress Protection	N/A	
Vandal Resistance	N/A	

#### Construction

Casing	Metal
Dimensions	Ф132.7 (mm) x 117.9 (mm)
Net Weight	0.95kg(2.09lb)
Gross Weight	1kg(2.20lb)

#### **Ordering Information** Туре Part Number Description 2MP 4x Starlight IR PTZ Network DH-SD29204UE-GN Camera, WDR, PAL 2MP 4x Starlight IR PTZ Network DH-SD29204UEN-GN Camera, WDR, NTSC 2MP PTZ Camera 2MP 4x Starlight IR PTZ Network SD29204UE-GN Camera, WDR, PAL 2MP 4x Starlight IR PTZ Network SD29204UEN-GN Camera, WDR, NTSC PFB302S Wall Mount PFA103 Mount Adapter DC12V/2A Power Adapter Accessories PFB300C Ceiling Mount PFA150 Pole Mount PFA151 Corner Mount

## **Accessories**

## Optional:







PFB302S Wall Mount

PFA103 Mount Adapter

Power Adapter









Pole Mount

Ceiling Mount

Corner Mount

Wall Mount	Pole Mount	
PFA103+PFB302S	PFA103+PFB302S+PFA150	
Ceiling Mount		
PFA103+PFB300C		

# Dimensions (mm)



