

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.

The control of the c							
Finale 17.2 of 17.4 of 17	Technical Specification				Advanced Intelligent Functions	Face Detection	
Effective Pibels	Camera					Video	
Add	Image Sensor		1/2.8" STARVIS™ CMOS			Compression	H.265/H.264/MJPEG(Sub Stream)
Section Sec	Effective Pixels		1920(H) x 1080(V), 2 Megapixels			Streaming Capability	3 Streams
Electronic Shutter Speed	RAM/ROM 256M/128M					Resolution	
Richanne	Scanning System		Progressive				Main stream: 1080P/720P/D1 (1 ~ 25/30fps)
Name in minimizer	Electronic Shutter Speed		1/1s~1/30,000s			Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
R On/OH Control	Minimum Illumination						Sub stream2: 720P/D1/CIF (1 ~ 25/30fps)
RELEDIS	IR Distance		Distance up to 30m (98ft)			Bit Rate Control	CBR/VBR
Lens	IR On/Off Control		Auto/Manual			Bit Rate	
Part	IR LEDs		2			Day/Night	Auto(ICR) / Color / B/W
Max. Aperture	Lens					Backlight Compensation	BLC / HLC / WDR (120dB)
Augle of View	Focal Length		2.7mm~11mm			White Balance	Auto, ATW, Indoor, Outdoor, Manual
Noise Reduction Ultra DNR (20/3b)	Max. Aperture		F1.6			Gain Control	Auto / Manual
Motion Detection Support	Angle of View		H: 112.5° ~ 30°			Noise Reduction	Ultra DNR (2D/3D)
Region of Interest Support	Optical Zoom 4x		4x			Motion Detection	Support
PORT DISTANCE *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 not your needs. The DORI distance when your needs. The DORI distance when your needs. The DORI distance is not your needs. The DORI distance when your needs. The DORI distance when your needs. The DORI distance is not your needs. The DORI distance your needs. The DORI distance your needs. T	Focus Control		Auto/Manual			Region of Interest	support
Policy	Close Focus Distance 100mm [~] 1000mm					N/A	
pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to 5N G267-64 which defines the criteria for Detect, Observe, Recognize and Identify respectively. Detect Observe Recognize and Identify Detect Observer Recognize and Identify Respectively. Detect Observer Park Title Respective Provide Scan Solve Interference of Protocol Scan Solve Interference Recognize and Identify Seed adaptation Interoperability Only Profile S&G, API Dever up Action Provide Scan Solve Interference Recognize and Identify Seed adaptation Interoperability Only Profile S&G, API Dever up Action Observer to previous PTZ and lens status after power failure power failure power failure occurrence occurrence Provided Interference Recognize and Identify Seed Adaptation Interoperability Only Profile S&G, API Developed Seed Setup Activate Preset/ Scan/Tour/Pattern if there is no command in the specified period Comm				d:_k	-h (4 4 4 4 4 4 4 4 4 4 4 4 4	Defog	Support
Detect Observe Recognize Identify Privacy Masking Up to 24 areas 20m(394t) 48m(157t) 24m(79t) 12m(39t) 24m(39t) 24m(39t	pinpoint the right camera for your needs. The DORI distance is calculated based on			culated based on	Digital Zoom	16x	
Privacy Masking Up to 24 areas Audio Audio PTZ Pan/Tilt Range Pan: 0* 360° limited; Tilt: 0* 90° Compression G,711a/G,711mu/PCM/G,726/AAC/G722.1/G,729/MPEG2-Layer2 Pans: 0.1° ~100° /s; Tilt: 0.1° ~60° /s Preset Speed Pan: 100° /s; Tilt: 60° /s Preset Speed Pan: 0.1° ~100° /s; Tilt: 60° /s Preset Speed Pan: 0.1° ~100° /s; Tilt: 60° /s Preset Speed Pan: 0.1° ~100° /s; Tilt: 60° /s Preset Speed Pan: 0.1° ~100° /s; Tilt: 60° /s Preset Speed Pan: 0.1° ~100° /s; Tilt: 60° /s Preset Speed Pan: 0.1° ~100° /s; Tilt: 60° /s Preset Speed Pan: 0.1° ~100° /s; Tilt: 60° /s Preset Speed Pan: 0.1° ~100° /s; Tilt: 60° /s Protocol Protocol Protocol Pantern B Tour(up to 32 preset per tour), Auto Scan Interoperability Protocol	criteria for Detect, (Observe, Recogn	ize and Identify r	espectively.		Flip	180°
PTZ Pan/Tilt Range Pan: 01° ~360° limited; Tilt: 01° ~90° Manual Control Speed Pan: 100° /s; Tilt: 011° ~60° /s Preset Speed Pan: 100° /s; Tilt: 01° /s Preset Speed Pan: 100° /s; Tilt: 001 /s Preset Speed Pan: 100° /s; Tilt: 001 /s Preset Speed Pan: 100° /s; Tilt: 001 /s Preset Speed Pan: 100° /s; Tilt: 60° /s Preset Speed Preset Speed Pan: 100° /s; Tilt: 60° /s Preset Speed Preset Speed Pan: 100° /s; Tilt: 60° /s Preset Speed	Detect	Observe	Recogni	ze	Identify	Privacy Masking	Up to 24 areas
Pan/Tilt Range Pan: 0° ~ 360° limited; Tilt: 0° ~ 90° MARG2-Layer2 Manual Control Speed Pan: 0.1° ~ 100° /s; Tilt: 0.1° ~ 60° /s Preset Speed Pan: 100° /s; Tilt: 60° /s Preset Speed Presets 300 Protocol Protocol Protocol Protocol Protocol Protocol Protoprot, ICMP, IGMP, SMMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, Qos, Bonjour, 802.13 Speed Setup 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	120m(394ft)	48m(157ft)	24m(79	ft)	12m(39ft)	Audio	
Manual Control Speed Pan: 0.1* ~100* /s; Tilt: 0.1* ~60* /s Preset Speed Pan: 100* /s; Tilt: 0.1* ~60* /s Preset Speed Pan: 100* /s; Tilt: 60* /s Protocol	PTZ					Compression	
Manual Control Speed Pan: 0.1° ~100° /s; Tilt: 0.1° ~60° /s Preset Speed Pan: 1.00° /s; Tilt: 60° /s Presets 300 Presets 300 Protocol Protocol Protocol Puman-oriented focal Length/ speed adaptation Interoperability OnViF Profile S&G, API Power up Action Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period Protocol DH-SD Intelligence Web Viewer Event Trigger Motion detection, Video tampering, Network disconnection, IP address conflict, Illegal access, Storage anomaly N/A Ethernet RJ-45 (10XBase-T/100Base-TX) Wifi N/A Protocol Protocol Protocol Protocol Protocol Protocol Protocol Interoperability OnViF Profile S&G, API N/A Management Software Smart PS, DSS, DMSS Smart Phone IOS, Android PSS, DSS, DMSS Smart Phone IOS, Android Certifications PCE: ENS5032/ENS5024/ENS0130-4 PCC: Part15 subpartB, ANSI C63.4-2014	Pan/Tilt Range		Pan: 0° ~ 360° limited; Tilt: 0° ~ 90°			Network	MPEG2-Layer2
Preset Speed Pan: 100° /s; Tilt: 60° /s Presets 300 Protocol Pro	Manual Control Spe	eed	Pan: 0.1° ~100° /s; Tilt: 0.1° ~60° /s				PLAE (10VPage T/100Page TV)
Presets 300 Protocol Protocol	Preset Speed		Pan: 100° /s; Tilt: 60° /s				
PTZ Mode 5 Pattern, 8 Tour(up to 32 preset per tour), Auto Scan Protocol ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.13 Interoperability ONVIF Profile S&G, API Streaming Method Unicast / Multicast Max. User Access 20 users Intelligence Itelligence Motion detection, Video tampering, Network disconnection, IP address conflict, Illegal access, Storage anomaly Motion detection, IP address conflict, Illegal access, Storage anomaly N/A OE: ENS5032/ENS5024/ENS50130-4 FCC: Part15 subpartB, ANSI C63.4- 2014	Presets		300			WIII	
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 Motion detection, Video tampering, Network disconnection, IP address conflict, Illegal access, Storage anomaly Muto Tracking N/A VS Tripwire, Intrusion, Abandoned/Missing Auto Tracking Auto Tracking Auto Tracki	PTZ Mode					Protocol	
power failure Idle Motion Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period Protocol DH-SD Max. User Access Edge Storage NAS (Network Attached Storage), Local PC for instant recording, Micro SD card 128GB Web Viewer IE, Chrome, Firefox, Safari Management Software Smart PSS, DSS, DMSS Auto Tracking N/A Certifications CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014	Speed Setup		Human-oriented focal Length/ speed adaptation			Interoperability	ONVIF Profile S&G, API
Idle Motion	Power up Action					Streaming Method	Unicast / Multicast
Protocol DH-SD Intelligence Motion detection, Video tampering, Network disconnection, IP address conflict, Illegal access, Storage anomaly Muto Tracking N/A Edge Storage Web Viewer Management Software Management Software Smart PSS, DSS, DMSS IOS, Android Certifications Certifications CE: ENS5032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014	Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no			Max. User Access	20 users
Intelligence Motion detection, Video tampering, Network disconnection, IP address conflict, Illegal access, Storage anomaly Auto Tracking N/A IVS Management Software Smart PSS, DSS, DMSS IOS, Android Certifications Certifications CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014	Protocol					Edge Storage	
Motion detection, Video tampering, Network disconnection, IP address conflict, Illegal access, Storage anomaly Auto Tracking N/A Tripwire, Intrusion, Abandoned/Missing Management Software Smart PSS, DSS, DMSS IOS, Android Certifications CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014						Web Viewer	IE, Chrome, Firefox, Safari
Event Trigger disconnection, IP address conflict, Illegal access, Storage anomaly Auto Tracking N/A IVS Tripwire, Intrusion, Abandoned/Missing Certifications Smart Phone IOS, Android Certifications Certifications CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4- 2014			disconnection, IP address conflict, Illegal access,			Management Software	Smart PSS, DSS, DMSS
Auto Tracking N/A IVS Tripwire, Intrusion, Abandoned/Missing Certifications Certifications Certifications CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4- 2014						Smart Phone	IOS, Android
CE: EN55032/EN55024/EN50130-4 IVS Tripwire, Intrusion, Abandoned/Missing Certifications FCC: Part15 subpartB, ANSI C63.4- 2014	Auto Tracking					Certifications	
	-					Certifications	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 Type 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:







Power Adapter



Wall Mount



Pole Mount



Mount Adapter



Ceiling Mount Corner Mount

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

Dimensions (mm)

