

Corrosion-resistant Network Positioning System

2 MP 40x Starlight IR Network Positioning System



System Overview

The Dahua positioning system features a powerful optical zoom lens and accurate pan/tilt/zoom performance to capture long distance video surveillance. The rugged camera is certified to the IP68 and to the NEMA 4X standards, so it can withstand harsh environments. The camera combines infrared illumination and Starlight Technology to produce crisp and clear images in low-light and no light applications.

Functions

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing 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.

Ultra Wide Dynamic Range

For applications with both bright and low-light conditions that change quickly, True WDR (140 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Intelligent Video System (IVS)

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area. In addition to scene analytics, the camera supports face detection to quickly capture a face and upload the image to a server. The camera also offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera. The built-in IVS features people counting and heat map functionality, advanced features that add business intelligence to your security system.

- 1/2.8-in. 2 MP STARVIS[™] CMOS
- Powerful 40x Optical Zoom
- Starlight Technology for Low Light Sensitivity
- Predictive Focus Algorithm
- Triple-stream Encoding
- Smart H.265+ and H.264 Dual Compression
- 1080p at 60 fps
- Ultra Wide Dynamic Range (140 dB) and Day/Night IR Cut Filter
- Designed for Extreme Temperature Environments
- Maximum IR Distance 300 m (984 ft)
- IP68 Ingress Protection, NEMA 4X Enclosure Rating
- Hi-PoE Support



Auto-tracking

This feature controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene. The tracking action can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the target automatically.

Smart Wiper

The camera uses Dahua smart wiper technology and a built-in rain sensor to automatically start and stop the wiper depending on the weather. This technology ensures optimal surveillance performance in any weather and without the need to manually start the wiper.

PFA Technology

The camera uses innovative PFA Technology to improve zoom accuracy and to decrease focus time. A series of advanced algorithms more accurately judge the direction and the distance to a subject, improving picture clarity throughout the zooming process.

Environmental

With a built-in heater and a temperature range of -50 °C to +70 °C (-58 °F to +158 °F), the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP68 rating makes it suitable for demanding outdoor applications.

Protection

The camera allows for $\pm 25\%$ input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 8KV lightning rating provides effective protection for both the camera and its structure against lightning.



Ultra Series | DH-PTZ19240V-IRB-N

Technical Specification

Camera

cumera	
Image Sensor	1/2.8-in. STARVIS™ CMOS
Effective Pixels	1920(H) x 1080(V), 2 MP
Scanning System	Progressive
Electronic Shutter Speed	1/1 s to 1/30,000 s
Minimum Illumination	Color: 0.005 lux at F1.2 0 lux at F1.2 (IR on)
S/N Ratio	More than 55 dB
IR Distance	Up to 300.0 m (984.25 ft)
IR On/Off Control	Auto, Manual
IR LEDs	Eight (8)
Lens	
Focal Length	4.5 mm to 180 mm
Max. Aperture	F1.2 to F3.5
Angle of View	Horizontal: 67.5° to 1.7°
Optical Zoom	40x
Focus Control	Auto, Manual
Close Focus Distance	100 mm to 1000 mm (3.94 in. x 39.37 in.)
DORI Distance ¹	

DORI Distance¹

Detect	Observe		Recognize	Identify
2469 m (8100 ft)	988 m (3241 ft)		494 m (1621 ft)	247 m (810 ft)
PTZ				
Pan/Tilt Range		Pan: 0° to 360° endless Tilt: 0° to 360° endless Effective Tilt Angle: –55° to 223° Auto Flip: 180°		
Manual Control Speed		Pan: 0.1° to 120° /s; Tilt: 0.1° to 60° /s		
Preset Speed		Pan: 120° /s; Tilt: 60° /s		
Presets		300		
PTZ Mode		5 Patterns, 8 Tours, Auto Pan, Auto Scan		
Speed Setup		Proportional Pan/Tilt Speed to Zoom Ratio		
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, Pelco-P/D (Auto recognition)		

Video	
Compression	Smart H.265+, H.265, Smart H.264+, H.264
Streaming Capability	Three (3) Streams
Resolution	1080p (1920 x 1080), 1.3 MP (1280 x 960), 720p (1280 x 720), D1 (704 x 480), CIF (352 x 240)
	Main Stream: 1080p, 1.3 MP, or 720p at 60 fps
Frame Rate	Sub Stream 1: D1 or CIF at 30 fps
	Sub Stream 2: 1080p, 1.3 MP, or 720p at 30 fps
Bit Rate Control	CBR/VBR
Bit Rate	H.265/H.264: 256 K to 8192 Kbps
Day/Night	Auto (ICR), Color, B/W
Backlight Compensation	BLC, HLC, Ultra WDR (140 dB)
White Balance	Auto, ATW, Indoor, Outdoor, Manual
Gain Control	Auto, Manual
Noise Reduction	Ultra DNR (2D/3D)
Advanced Features	Motion Detection, Region of Interest, Electronic Image Stabilization (EIS), Defog, Smart Wiper
Digital Zoom	16x
Flip	180°
Privacy Masking	Up to 24 areas
Audio	
Compression	G.711a. G.711mu, PCM, G.726, AAC, G722.1, G.729, MPEG2-Layer2
Network	
Ethernet	RJ-45 (100 Base-TX/1000 Base-T)
Protocol	IIPv4/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
Interoperability	ONVIF, PSIA, CGI
Streaming Method	Unicast, Multicast
Maximum User Access	20 Users
Edge Storage	Network Attached Storage (NAS), Local PC for Instant Recording, Micro SD Card Slot, maximum 128 GB
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	SmartPSS, DSS
Mobile Operating System	IOS, Android
Certifications	
Safety	UL 60950-1 + CAN/CSA C22.2, No.60950-1
Electromagnetic Compatibility (EMC)	EN55032, EN55024, EN50130-4 FCC Part 15 Subpart B ANSI C63.4- 2014

 The DORI distance is a measure of the general proximity for a specific classification to help pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specifications and lab test results according to EN 62676-4, the standard that defines the criteria for the Detect, Observe, Recognize and Identify classifications.

Ultra Series | DH-PTZ19240V-IRB-N

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Ordering Information Part Number Description Туре 2 MP 40x Starlight IR Network 2 MP Positioning DH-PTZ19240VN-IRB-N Positioning System, Ultra WDR, Side System Outlets AC24V/5A Power Adapter Accessory, included DH-PFB731W Wall Mount Accessories, optional DH-PFA120A Junction Box

Accessories

Included:



AC24V/5A Power Adapter

Optional:

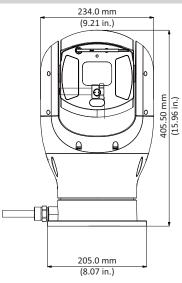




DH-PFB731W Wall Mount

PFA120A Junction Box

Dimensions (mm/in.)





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