

# DH-PTZ19240V-IRB-N(-B)

2MP 40x Starlight IR Network Positioning System



- · 1/2.8" 2Megapixels STARVIS™ CMOS
- · Powerful 40x optical zoom
- · Starlight technology
- · H.265 Encoding
- · Max. 50/60fps@1080P
- · IR distance up to 300m
- · NEMA 4X, IP68













#### **System Overview**

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera provides an all-in-one solution for capturing long distance video surveillance for outdoor applications. Together with infrared illumination and Starlight technology, the camera is the perfect solution for dark, lowlight applications. The series combines a day/night mechanical IR cut filter for the highest image quality in variable lighting conditions during the day, and True WDR for applications with direct sunlight or glare.

## **Functions**

#### 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.

#### **Ultra-Wide Dynamic Range**

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

#### **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 defined target automatically.

#### Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

#### **Smart Wiper**

With Dahua smart wiper technology, the wiper can be start/stop automatically when the build-in rain senor discerns whether it rains. The technology could offer better surveillance performance against wet weather and reduce dependence on manual operation.

#### **PFA Technology**

PFA technology has innovatively introduced new methods of judgment to ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms. PFA ensures clarity of the image throughout the process of zooming and shortens focus time. The realization of PFA technology substantially improves user experience and increases product value.

#### **Environmental**

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from -50 °C to +70 °C (-58 °F to +158 °F) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP68 Ingress Protection rating makes it suitable for demanding outdoor applications.

#### Protection

The camera allows for ±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.

#### Interoperability

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



Technical Spe	ecification			IVS	Tripwire, Intrusion, Abandoned/Missing
Camera		Advanced Intelligent Functions	Face Detection, Heat Map		
Image Sensor	mage Sensor 1/2.8" STARVIS™ CMOS		Video		
Effective Pixels 1920(H) x 1080(V), 2 Megapixels		Compression	H.265+/H.265/H.264+/H.264		
Scanning System Progressive		Streaming Capability	3 Streams		
Electronic Shutter Speed 1/1s~1/30,000s		Resolution	1080P(1920×1080)/1.3M(1280x960)/720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240)		
Color: 0.005Lux@F1.2; B/W: 0.0005Lux@F1.2; Minimum Illumination			Main stream: 1080P/1.3M/720P(1~50/60fps)		
OLux@F1.2 (IR on)  S/N Ratio More than 55dB		Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)		
IR Distance				Sub stream2: 1080P/1.3M/720P(1 ~ 25/30fps)	
IR On/Off Control		uto/Manual		Bit Rate Control	CBR/VBR
IR LEDs	8			Bit Rate	H.265/H.264: 256K ~ 8192Kbps
Smart Wiper		upport		Day/Night	Auto(ICR) / Color / B/W
Lens				Backlight Compensation	BLC / HLC / WDR(140dB)
Focal Length	4.	.5mm~180mm		White Balance	Auto, ATW, Indoor, Outdoor, Manual
Max. Aperture	F1	1.2 ~ F3.5		Gain Control	Auto / Manual
Angle of View	H: 67.5° ~ 1.7°		Noise Reduction	Ultra DNR (2D/3D)	
Optical Zoom	40	0x		Motion Detection	Support
		uto/Manual		Region of Interest	Support
Close Focus Distance 100mm~ 1000mm			Electronic Image Stabilization (EIS)	Support	
DORI Distance				Optical Defog	Support
		I proximity" of distance whileds. The DORI distance is cal		Digital Zoom	16x
sensor specificatio	n and lab test result	t according to EN 62676-4 we and Identify respectively.		Flip	180°
Detect	Observe	Recognize	Identify	Privacy Masking	Up to 24 areas
2469m(8100ft)	988m(3241ft)	494m(1621ft)	247m(810ft)	Audio	
PTZ				Compression	G.711a/G.711mu/PCM/G.726/AAC/G722.1/G.729/ MPEG2-Layer2
Pan/Tilt Range		an: 0° ~ 360° endless; Tilt: 0 ffective tilt angle: -55° ~ 223	,	Network	
Manual Control Sp		an: 0.1° ~120° /s; Tilt: 0.1° ~		Ethernet	RJ-45 (10Base-T/100Base-TX)
Preset Speed	Pa	Pan: 120° /s; Tilt: 60° /s		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
Presets		300		Interoperability	ONVIF Profile S&G, API
PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,Auto Scan		Streaming Method	Unicast / Multicast
Speed Setup		Human-oriented focal Length/ speed adaptation		Max. User Access	20 users
Power up Action		Auto restore to previous PTZ and lens status after power failure		Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period		Web Viewer	IE, Chrome, Firefox, Safari
Protocol		DH-SD, Pelco-P/D (Auto recognition)		Management Software	Smart PSS, DSS, DMSS
Intelligence		Smart Phone	IOS, Android		
Event Trigger		Notion detection, Video tam hanging, Network disconned onflict, Illegal Access, Storag	ction, IP address	Certifications	
Auto Tracking		Support Support		Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014
Auto Iracking					

# All-environment Series | DH-PTZ19240V-IRB-N(-B)

Interface	
Video Interface	1 port(BNC, 1.0V[p-p], 75Ω)
RS485	1
Audio I/O	1/1
Alarm I/O	7/2

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Power Supply	AC24V/5A(±25%), Hi-PoE
Power Consumption	For DH-PTZ19240V-IRB-N: AC 24V: 25W, 40W (IR on), 80W (IR on, Heater on) Hi-PoE: 25W, 40W (IR on) For DH-PTZ19240V-IRB-N-B: AC 24V/Hi-PoE: 25W, 40W (IR on)

#### Environmental

Operating Conditions	For DH-PTZ19240V-IRB-N:  AC 24V: -50°C ~ 70°C (-58°F ~ +158°F)  Hi-PoE : -40°C ~ 70°C (-40°F ~ +158°F)  For DH-PTZ19240V-IRB-N-B:  AC 24V/Hi-PoE: -40°C ~ 70°C (-40°F ~ +158°F)  Less than 95% RH	
Ingress Protection	IP68	
Vandal Resistance	N/A	

#### Construction

Casing	Metal
Dimensions	Ф234(mm) x 205(mm) x 405.5(mm)
Net Weight	9.8kg(21.61lb)
Gross Weight	15.5kg(34.17lb)

# **Ordering Information**

Туре	Part Number	Description		
	DH-PTZ19240V-IRB-N	2MP 40x Starlight IR Network Positioning System, WDR, Side outlets, PAL		
	DH-PTZ19240VN-IRB-N	2MP 40x Starlight IR Network Positioning System, WDR, Side outlets, NTSC		
	PTZ19240V-IRB-N	2MP 40x Starlight IR Network Positioning System, WDR, Side outlets, PAL		
2MP Positioning	PTZ19240VN-IRB-N	2MP 40x Starlight IRNetwork Positioning System, WDR, Side outlets, NTSC		
System	DH-PTZ19240V-IRB-N-B	2MP 40x Starlight IR Network Positioning System, WDR, Bottom outlets, PAL		
	DH-PTZ19240VN-IRB-N-B	2MP 40x Starlight IR Network Positioning System, WDR,Bottom outlets, NTSC		
	PTZ19240V-IRB-N-B	2MP 40x Starlight IR Network Positioning System, WDR, Bottom outlets, PAL		
	PTZ19240VN-IRB-N-B	2MP 40x Starlight IR PTZ Network Positioning System, WDR,Bottom outlets, NTSC		

A	AC24V/5A	Power Adapter
Accessories	DH-PFB731W	Wall Mount

# Accessories

Included:



AC24V/5A Power Adapter

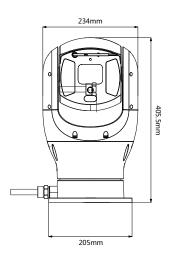
Optional:



DH-PFB731W Wall Mount

# Dimensions (mm)

PTZ19240V-IRB-N:



### PTZ19240V-IRB-N-B:

