

DH-PTZ19240V-IRB-N(-B) (For Project)

2MP 45x Starlight IR Network Positioning System



- · 1/2.8" 2Megapixels STARVIS™ CMOS
- · Powerful 45x optical zoom
- · Starlight technology
- · H.265 Encoding
- · Max. 50/60fps@1080P
- · IR distance up to 350m
- · NEMA 4X, IP68
- · Support P-Iris, Auto-Iris











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.

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.

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 Spec	cification				IVS	Tripwire, Intrusion, Abandoned/Missing
Camera				Advanced Intelligent Functions	Face Detection, Heat Map	
Image Sensor	1/2.	1/2.8" STARVIS™ CMOS			Video	
Effective Pixels	ffective Pixels 1920(H) x 1080(V), 2 Megapixels			Compression	H.265+/H.265/H.264+/H.264	
Scanning System	Scanning System Progressive			Streaming Capability	3 Streams	
Electronic Shutter Speed 1/1s~1/30,000s			Resolution	1080P(1920×1080)/1.3M(1280×960)/720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240)		
Minimum Illumination	Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6; 0Lux@F1.6 (IR on)			Frame Rate	Main stream: 1080P/1.3M/720P(1~50/60fps)	
		More than 56dB				Sub stream1: D1/CIF(1 ~ 25/30fps)
IR Distance					Sub stream2: 1080P/1.3M/720P/D1/CIF (1~25/30fps)	
IR On/Off Control	Aut	o/Manual			Bit Rate Control	CBR/VBR
IR LEDs	8				Bit Rate	H.265/H.264: 448K ~ 8192Kbps
Smart Wiper	Sup	port			Day/Night	Auto(ICR) / Color / B/W
Lens					Backlight Compensation	BLC / HLC / WDR(120dB)
Focal Length 3.95mm~177.7mm				White Balance	Auto, ATW, Indoor, Outdoor, Manual	
Max. Aperture	Max. Aperture F1.6~ F				Gain Control	Auto / Manual
Angle of View H: 70.3		0.3° ~ 1.8°			Noise Reduction	Ultra DNR (2D/3D)
Optical Zoom 45x					Motion Detection	Support
Focus Control Auto/		Auto/Manual			Region of Interest	Support
Close Focus Distance 100m		100mm~ 1000mm			Electronic Image Stabilization (EIS)	Support
DORI Distance					Defog	Support
		roximity" of distance whi			Digital Zoom	16x
		ccording to EN 62676-4 wnd Identify respectively.	hich defines the		Flip	180°
Detect	Observe	Recognize	Identify		Privacy Masking	Up to 24 areas
2345m(7694ft)	938m(3077ft)	469m(1539ft)	234m(768ft)		Audio	
PTZ					Compression	G.711a/G.711mu/PCM/G.726/AAC/G722.1/G.729/ MPEG2-Layer2
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: 0° ~ 360° endless, effective tilt angle: -55° ~ 223°			Network	
Manual Control Spe		: 0.1° ~120° /s; Tilt: 0.1° ~			Ethernet	RJ-45 (10Base-T/100Base-TX)
Preset Speed		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	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
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period			Web Viewer	instant recording, Micro SD card 256GB 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		Motion detection, Video tampering , Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly			Certifications	
Auto Tracking Suppor			c anomaly		Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4-2014 UL: UL60950-22,CSA C22.2 NO. 60950-22-07

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

El	lectrical

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: -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-PTZ19245U-IRB-N	2MP 45x Starlight IR Network Positioning System, WDR, Side outlets, PAL	
	DH-PTZ19245UN-IRB-N	2MP 45x Starlight IR Network Positioning System, WDR, Side outlets, NTSC	
	PTZ19245U-IRB-N	2MP 45x Starlight IR Network Positioning System, WDR, Side outlets, PAL	
2MP	PTZ19245UN-IRB-N	2MP 45x Starlight IR Network Positioning System, WDR, Side outlets, NTSC	
Positioning System	DH-PTZ19245U-IRB-N-B	2MP 45x Starlight IR Network Positioning System, WDR, Bottom outlets, PAL	
	DH-PTZ19245UN-IRB-N-B	2MP 45x Starlight IR Network Positioning System, WDR,Bottom outlets, NTSC	
	PTZ19245U-IRB-N-B	2MP 45x Starlight IR Network Positioning System, WDR, Bottom outlets, PAL	
	PTZ19245UN-IRB-N-B	2MP 45x Starlight IR Network Positioning System, WDR,Bottom outlets, NTSC	

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

Accessories

Included:



AC24V/5A Power Adapter

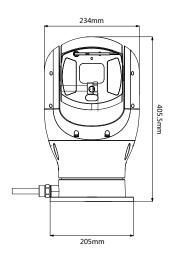
Optional:



DH-PFB731W Wall Mount

Dimensions (mm)

DH-PTZ19240V-IRB-N:



DH-PTZ19240V-IRB-N-B:

