

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
- · Anti-corrosion, 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) and PSIA (Physical Security Interoperability Alliance) specifications, ensuring interoperability between network video products regardless of manufacturer.



Technical Spec	cification			V	'ideo	
Camera		С	Compression	H.265+/H.265/H.264+/H.264		
Image Sensor	age Sensor 1/2.8″ STARVIS™ CMOS		S	treaming Capability	3 Streams	
Effective Pixels	19	1920(H) x 1080(V), 2 Megapixels		R	esolution	1080P(1920×1080)/1.3M(1280×960)/720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240)
Scanning System Progressive				Main stream: 1080P/1.3M/720P(1~50/60fps)		
Electronic Shutter Speed		1/1s~1/30,000s		F	Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
Minimum Illumination Col		Color: 0.005Lux@F1.2; 0Lux@F1.2 (IR on)				Sub stream2: 1080P/1.3M/720P(1 ~ 25/30fps)
S/N Ratio More than 55dB		В	iit Rate Control	CBR/VBR		
IR Distance up to 300m (984ft)		В	iit Rate	H.265/H.264: 256K ~ 8192Kbps		
IR On/Off Control Aut		Auto/Manual		D	Day/Night	Auto(ICR) / Color / B/W
IR LEDs	8	8			acklight Compensation	BLC / HLC / WDR(140dB)
Smart Wiper	Su	Support			Vhite Balance	Auto, ATW, Indoor, Outdoor, Manual
Lens					Gain Control	Auto / Manual
Focal Length 4		5mm~180mm				
Max. Aperture F1.:		1.2 ~ F3.5			loise Reduction	Ultra DNR (2D/3D)
Angle of View H: 67.5°		H: 67.5° ~ 1.7°			Motion Detection	Support
Optical Zoom 40x		Ох			legion of Interest	Support
Focus Control		Auto/Manual			lectronic Image Stabilization EIS)	Support
Close Focus Distance	e 10	100mm~ 1000mm		O	Optical Defog	Support
DORI Distance				D	Digital Zoom	16x
*Note: The DORI dis	tance is a "general	proximity" of distance whi	ch makes it easy to	F	lip	180°
*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 criteria for Detect, Observe, Recognize and Identify respectively.			Р	rivacy Masking	Up to 24 areas	
Detect	Observe	Recognize	Identify	А	Audio	
2469m(8100ft)	988m(3241ft)	494m(1621ft)	247m(810ft)	C	Compression	G.711a/G.711mu/PCM/G.726/AAC/G722.1/G.729/ MPEG2-Layer2
PTZ				N	letwork	
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: 0° ~ 360° endless,		E	thernet	RJ-45 (10Base-T/100Base-TX)
Manual Control Spe		effective tilt angle: -55° ~ 223°, auto flip 180° Pan: 0.1° ~120° /s; Tilt: 0.1° ~60° /s		Р	rotocol	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
Preset Speed	Pa	Pan: 120° /s; Tilt: 60° /s		Ir	nteroperability	ONVIF, PSIA, CGI
Presets		300			treaming Method	Unicast / Multicast
PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,Auto Scan			Max. User Access	20 users
Speed Setup		Human-oriented focal Length/ speed adaptation				NAS (Network Attached Storage),Local PC for
Power up Action		Auto restore to previous PTZ and lens status after power failure			dge Storage	instant recording, Micro SD card 128GB
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period			Veb Viewer	IE, Chrome, Firefox, Safari
Protocol		DH-SD, Pelco-P/D (Auto recognition)			Aanagement Software	Smart PSS, DSS
Intelligence					mart Phone	IOS, Android
Auto Tracking	Sı	Support		C	ertifications	
IVS		Tripwire, Intrusion, Abandoned/Missing, Face Detection, Heat Map		C	Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014 NEMA 4X: UL60950-1+CAN/CSA C22.2,No.60950-1

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

Electrical

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 PTZ	PTZ19240VN-IRB-N	2MP 40x Starlight IRNetwork Positioning System, WDR, Side outlets, NTSC	
Camera	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	

	AC24V/5A	Power Adapter
Accessories	DH-PFB731W	Wall Mount
	DH-PFA120A	Junction Box

Accessories

Included:



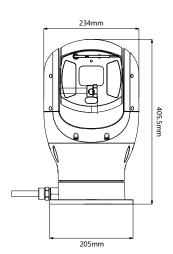
AC24V/5A Power Adapter

Optional:



Dimensions (mm)

PTZ19240V-IRB-N:



PTZ19240V-IRB-N-B:

