

DH-PTZ19245U-IRB-N(-B)

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
- · 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.

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 Specification			IVS	Tripwire, Intrusion, Abandoned/Missing
Camera		Advanced Intelligent Functions	Face Detection, Heat Map	
Image 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(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;		Main stream: 1080P/1.3M/720P(1~50/60fps)
S/N Ratio	OLux@F1.6 (IR on) More than 56dB		Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
IR Distance	Distance up to 350m (1148ft))		Sub stream2: 1080P/1.3M/720P/D1/CIF (1~25/30fps)
IR On/Off Control	Auto/Manual		Bit Rate Control	CBR/VBR
IR LEDs	8		Bit Rate	H.265/H.264: 448K ~ 8192Kbps
Smart Wiper	Support		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	F1.6~ F4.95		Gain Control	Auto / Manual
Angle of View	H: 70.3° ~ 1.8°		Noise Reduction	Ultra DNR (2D/3D)
Optical Zoom			Motion Detection	Support
Focus Control	45x Auto/Manual		Region of Interest	Support
Close Focus Distance	100mm~ 1000mm		Electronic Image Stabilization	Support
DORI Distance	10011111		(EIS)	
*Note: The DORI distance is a "gene	eral proximity" of distance whi	ch makes it easy to	Defog	Support
pinpoint the right camera for your n sensor specification and lab test res	needs. The DORI distance is cal	culated based on	Digital Zoom	16x
criteria for Detect, Observe, Recogn	-		Flip	180°
Detect Observe	Recognize	Identify	Privacy Masking	Up to 24 areas
2345m(7694ft) 938m(3077ft	t) 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 effective tilt angle: -55° ~ 223		Network	
Manual Control Speed	Pan: 0.1° ~120° /s; Tilt: 0.1° ~	60° /s	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		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	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	Motion detection, Video tampering, Scene changing, Network disconnection, IP address		Certifications	
Auto Tracking	conflict, Illegal Access, Storage anomaly Support		Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014

All-environment Series | DH-PTZ19245U-IRB-N(-B)

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

Power Supply	AC24V/5A(±25%), Hi-PoE
Power Consumption	For DH-PTZ19245U-IRB-N: AC 24V: 25W, 40W (IR on), 80W (IR on, Heater on) Hi-PoE: 25W, 40W (IR on) For DH-PTZ19245U-IRB-N-B: AC 24V/Hi-PoE: 25W, 40W (IR on)

Environmental

Operating Conditions	For DH-PTZ19245U-IRB-N: AC 24V: -50°C ~ 70°C (-58°F ~ +158°F) Hi-PoE : -40°C ~ 70°C (-40°F ~ +158°F) For DH-PTZ19245U-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
2MP Positioning System	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
	PTZ19245UN-IRB-N	2MP 45x Starlight IR Network Positioning System, WDR, Side outlets, NTSC
	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

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

Accessories

Included:



AC24V/5A Power Adapter

Optional:



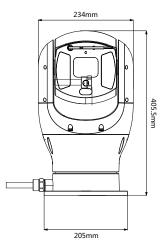


DH-PFB731W Wall Mount

DH-PFA120A Junction Box

Dimensions (mm)

DH-PTZ19245U-IRB-N:



DH-PTZ19245U-IRB-N-B:

