

DH-PTZ12230F-IRB-N

2MP 30x Network IR Positioning System



- · 1/1.9" 2Megapixel CMOS
- · Powerful 30x optical zoom
- · Starlight technology
- · Support Triple-stream encoding
- Max. 25/30fps@1080P, 25/30/50/60fps@720P
- · Auto-tracking and IVS
- · IR Distance up to 300m
- · IP66







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 0.002 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.

Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from -40 °C to +70 °C (-40 °F to +158 °F) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP66 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 6KV 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 Specification					Video	
Camera					Compression	H.264 / MJPEG
Image Sensor	1/1.9'	1/1.9" CMOS			Streaming Capability	3 Streams
Effective Pixels	1920(1920(H) x 1080(V), 2 Megapixels			Resolution	1080P(1920×1080)/720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240)
RAM/ROM		1024M/64M			Main stream: 1080P(1~25/30fps), 720P(1~50/60fps)	
Scanning System	Progre	Progressive			Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
Electronic Shutter S	peed 1/1s~	1/1s~1/30,000s				Sub stream2: 1080P/720P/D1/CIF (1 ~ 25/30fps)
Minimum Illumination C		Color: 0.002Lux@F1.6; 0Lux@F1.6 (IR on)			Bit Rate Control	CBR/VBR
S/N Ratio N		More than 55dB			Bit Rate	H.264: 448K~8192Kbps, MJPEG: 4096K~20480Kbps
IR Distance	Distar	Distance up to 300m(984ft)			Day/Night	Auto(ICR) / Color / B/W
IR On/Off Control	Auto/	ito/Manual			Backlight Compensation	BLC / HLC / WDR (120dB)
IR LEDs	4	4			White Balance	Auto,ATW,Indoor,Outdoor,Manual
Lens					Gain Control	Auto / Manual
Focal Length	6mm	~ 180mm			Noise Reduction	Ultra DNR (2D/3D)
Max. Aperture	F1.6 ~	F4.4			Motion Detetion	Support
Angle of View	H: 61.	61.2° ~ 2.1°			Region of Interest	Support
Optical Zoom 30.		30x			Electronic Image	
Focus Control		Auto/Manual			Stabilization (EIS)	Support
Close Focus Distance		100mm~ 1000mm			Defog	Support
DORI Distance					Digital Zoom	16x
*Note: The DORI distance is a "general proximity" of distance which makes it easy to				Flip	180°	
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.				Privacy Masking	Up to 24 areas	
Detect	Observe	Recognize Identify			Audio	
1920m(6299ft)	768m(2520ft)	384m(1260ft)	192m(630ft)		Compression	G.711a/G.711mu/G.726/AAC
PTZ					Network	
Pan/Tilt Range	Pan: 0	Pan: 0° ~ 360° endless; Tilt: -90° ~ 45°			Ethernet	RJ-45 (10Base-T)/100Base-TX)
Manual Control Spe	ed Pan: 0	Pan: 0.1° ~160° /s; Tilt: 0.1° ~60° /s			Protocol	IPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPnP, ICMP,IGMP,SNMP,RTSP,RTP, SMTP, NTP,DHCP,
Preset Speed	Pan:1	Pan:160° /s; Tilt: 60° /s				DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x
Presets 3		300			Interoperability	ONVIF, PSIA, CGI
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	Local PC for instant recording, Micro SD card 128GB
Idle Motion	Activa	Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period			Web Viewer Management Software	IE, Chrome, Firefox, Safari Smart PSS, DSS
Protocol	DH-SE	DH-SD, Pelco-P/D (Auto recognition)			Smart Phone	IOS, Android
Intelligence				Certifications	.55,	
Auto Tracking	Suppo	Support			CCI diffedions	CE: EN55032/EN55024/EN50130-4
IVS		Tripwire, Intrusion, Abandoned/Missing, Face Detection, Heat Map		Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014 UL: UL60950-1+CAN/CSA C22.2,No.60950-1	

All-environment Series | DH-PTZ12230F-IRB-N

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%)
Power Consumption	50W, 75W (IR on, Heater on)

Environmental

Operating Conditions	-40°C ~ 70°C (-40°F ~ +158°F) / Less than 95% RH
Ingress Protection	IP66
Vandal Resistance	N/A

Construction

Accessories

Ordering Information

Casing	Metal
Dimensions	Ф202.7(mm)×390.8(mm)×472.2(mm)
Net Weight	10.5kg(23.15lb)
Gross Weight	16.5kg(36.38lb)

Type Part Number Description DH-PTZ12230F-IRB-N 2MP 30x Network IR Positioning

PFB712W-CA010

DH-PTZ12230F-IRB-N

System, WDR, PAL

2MP
Positioning
System

PTZ12230FN-IRB-N

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2MP 30x Network IR Positioning
System, WDR, PAL

2MP 30x Network IR Positioning
System, WDR, PAL

2MP 30x Network IR Positioning
System, WDR, NTSC

AC24V/5A

Power Adapter

Wall Mount

Accessories

Included:



AC24V/5A Power Adapter

Optional:



PFB712W-CA010 Wall Mount

Dimensions (mm)





