

DH-PTZ12230F-LR8-N

2MP 30x Starlight Laser Network 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 800m
- · 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.

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 -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 $\pm 25\%$ 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) specifications, ensuring interoperability between network video products regardless of manufacturer.



Technical Specification				Auto Tracking	Support		
Camera						IVS	Tripwire, Intrusion, Abandoned/Missing
Image Sensor		1/1.9" CMOS				Advanced Intelligent Functions	Face Detection, Heat Map
Effective Pixels		1920(H) x 1080(V), 2 Megapixels				Video	
RAM/ROM		1024N	1/64M			Compression	H.264 / MJPEG
Scanning System		Progressive				Streaming Capability	3 Streams
Electronic Shutter S	peed	1/1s~1/30,000s				Resolution	1080P(1920×1080)/720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240)
Minimum Illumination		Color: 0.002Lux@F1.5; B/W: 0.0002Lux@F1.5; 0Lux@F1.5 (IR on)				Main stream: 1080P(1~25/30fps), 720P(1~50/60fps)	
S/N Ratio		More t	:han 55dB			Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
IR Distance		Distance up to 800m(2625ft)					Sub stream2: 1080P/720P/D1/CIF (1 ~ 25/30fps)
IR On/Off Control		Auto/Manual				Bit Rate Control	CBR/VBR
IR LEDs		4				Bit Rate	H.264: 448K~8192Kbps, MJPEG: 4096K~20480Kbps
Wiper		Support					
Lens						Day/Night	Auto(ICR) / Color / B/W
Focal Length		6mm ^	180mm			Backlight Compensation	BLC / HLC / WDR (120dB)
Max. Aperture		F1.5~ F4.3				White Balance	Auto, ATW, Indoor, Outdoor, Manual
Angle of View		H: 61.2° ~ 2.1°				Gain Control	Auto / Manual
Optical Zoom		30x				Noise Reduction	Ultra DNR (2D/3D)
Focus Control		Auto/Manual				Motion Detection	Support
Close Focus Distanc	e	100mr	m~ 1000mm			Region of Interest	Support
DORI Distance						Electronic Image Stabilization (EIS)	Support
			kimity" of distance which he DORI distance is calc			Defog	Support
			ording to EN 62676-4 wl Identify respectively.	hich defines the		Digital Zoom	16x
Detect	Observe	Recognize		Identify		Flip	180°
1920m(6299ft)	768m(2520f	t)	384m(1260ft)	192m(630ft)		Privacy Masking	Up to 24 areas
PTZ						Audio	
Pan/Tilt Range		Pan: 0	° ~ 360° endless; Tilt: -9	0° ~ 45°		Compression	G.711a/G.711mu/G.726/AAC
Manual Control Spe	ed	Pan: 0.1° ~160° /s; Tilt: 0.1° ~60° /s				Network	
Preset Speed		Pan:160°/s; Tilt: 60°/s				Ethernet	RJ-45 (10Base-T/100Base-TX)
Presets		300				Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP,
PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,Auto Scan				FIOLOCOI	DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x
Speed Setup		Human-oriented focal Length/ speed adaptation				Interoperability	ONVIF Profile S&G, API
Power up Action		Auto restore to previous PTZ and lens status after power failure				Streaming Method	Unicast / Multicast
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period			Max. User Access	20 users	
Protocol		DH-SD, Pelco-P/D (Auto recognition)			Edge Storage	Local PC for instant recording, Micro SD card 128GB	
Intelligence					Web Viewer	IE, Chrome, Firefox, Safari	
Event Trigger		Motion detection, Video tampering , Scene				Management Software	Smart PSS, DSS, DMSS
		changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly			Smart Phone	IOS, Android	

All-environment Series | DH-PTZ12230F-LR8-N

Certifications

Certifications	CE: EN55032/EN55024/EN50130-4
Certifications	FCC: Part15 subpartB, ANSI C63.4-2014

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/8A(±25%)
Power Consumption	70W, 90W (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

Casing	Metal
Dimensions	Ф252(mm) x 360(mm) x 464(mm)
Net Weight	12.87kg(28.37lb)
Gross Weight	19kg(41.89lb)

Ordering Information

Туре	Part Number	Description
	DH-PTZ12230F-LR8-N	2MP 30x Starlight Laser Network Positioning System, WDR, PAL
2MP	DH-PTZ12230FN-LR8-N	2MP 30x Starlight Laser Network Positioning System, WDR, NTSC
Positioning System	PTZ12230F-LR8-N	2MP 30x Starlight Laser Network Positioning System, WDR, PAL
	PTZ12230FN-LR8-N	2MP 30x Starlight Laser Network Positioning System, WDR, NTSC
A	AC24V/8A	Power Adapter
Accessories	PFB712W	Wall Mount

Accessories

Included:



AC24V/8A Power Adapter

Optional:



PFB712W Wall Mount

Dimensions (mm)





