

DH-PTZ12230F-LR8-N

2MP 30x Network Laser 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 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.

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	Image Sensor 1/1.9'		1/1.9" CMOS			Streaming Capability	3 Streams
Effective Pixels		1920(H) x 1080(V), 2 Megapix	els		Resolution	1080P(1920×1080)/720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240)
RAM/ROM 1024M/64M		/64M	64M			Main stream: 1080P(1~25/30fps), 720P(1~50/60fps)	
Scanning System		Progressive			Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)	
Electronic Shutter Speed		1/1s~1/30,000s				Sub stream2: 1080P/720P/D1/CIF (1 ~ 25/30fps)	
Minimum Illumination Color: 0.002Lux@F1.5; 0Lux@F1.5 (IR on)		PF1.5 (IR on)		Bit Rate Control	CBR/VBR		
S/N Ratio		More than 55dB				Bit Rate	H.264: 448K~8192Kbps, MJPEG: 4096K~20480Kbps
IR Distance		Distance up to 300m(984ft)				Day/Night	Auto(ICR) / Color / B/W
IR On/Off Control		Auto/N	1anual			Backlight Compensation	BLC / HLC / WDR (120dB)
IR LEDs		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		F1.5~ F	4.3			Motion Detection	Support
Angle of View		H: 61.2	H: 61.2° ~ 2.1°			Region of Interest	Support
Optical Zoom 30x		30x			Electronic Image Stabilization (EIS)	Support	
Focus Control		Auto/Manual				Defog	Support
Close Focus Distance	е	100mm~ 1000mm				Digital Zoom	16x
DORI Distance						Flip	180°
			imity" of distance which ne DORI distance is calc			Privacy Masking	Up to 24 areas
		sult according to EN 62676-4 which defines the nize and Identify respectively.			Audio		
Detect Observe			Recognize	Identify		Compression	G.711a/G.711mu/G.726/AAC
1920m(6299ft)	768m(2520ft	:)	384m(1260ft)	192m(630ft)		Network	
PTZ						Ethernet	RJ-45 (10Base-T/100Base-TX)
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: -90° ~ 45°					IPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPnP,
Manual Control Speed		Pan: 0.1° ~160° /s; Tilt: 0.1° ~60° /s				Protocol	ICMP,IGMP,SNMP,RTSP,RTP, SMTP, NTP,DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x
Preset Speed		Pan:160° /s; Tilt: 60° /s				Interoperability	ONVIF, PSIA, CGI
Presets		300				Streaming 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				Edge Storage	Local PC for instant recording, Micro SD card 128GB
Power up Action		Auto restore to previous PTZ and lens status after power failure				Web Viewer	IE, Chrome, Firefox, Safari
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period				Management Software	Smart PSS, DSS
Protocol		DH-SD, Pelco-P/D (Auto recognition)			Smart Phone	IOS, Android	
Intelligence					Certifications		
Auto Tracking		Support				Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014

Tripwire, Intrusion, Abandoned/Missing, Face Detection, Heat Map

IVS

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

Interface

Video Interface	1 port(BNC, 1.0V[p-p], 75Ω)
05405	
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 $^{\sim}$ 70°C (-40°F $^{\sim}$ +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 Network Laser IR Positioning System, WDR, PAL	
2MP	DH-PTZ12230FN-LR8-N	2MP 30x Network Laser IR Positioning System, WDR, NTSC	
Positioning System	PTZ12230F-LR8-N	2MP 30x Network Laser IR Positioning System, WDR, PAL	
	PTZ12230FN-LR8-N	2MP 30x Network Laser IR 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)





