

# 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

All-environment series can be used for CCTV applications range from simple monitoring applications to fully controllable digital video monitoring systems. The excellent pan and tilt functionality makes the guard tour capability a reliable surveillance aid to operator that need to monitor a vast area. The series adopts top-notch DSP and advanced image sensor, which can offer a high-performance and safe imaging solution. It offers rich appearance, IP68 rated for water/dust ingress and professional certifications, which enable this series can meet most of special requirements of video surveillance applications such as high ground surveillance, explosive and corrosive environment surveillance for chemical industry, refineries and oil & gas industry, etc.

#### 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  $\pm 25\%$  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) and PSIA (Physical Security Interoperability Alliance) specifications, ensuring interoperability between network video products regardless of manufacturer.



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

#### **Technical Specification**

#### Camera

Image Sensor	1/1.9" CMOS
Effective Pixels	1920(H) x 1080(V), 2 Megapixels
RAM/ROM	1024M/64M
Scanning System	Progressive
Electronic Shutter Speed	1/1s~1/30,000s
Minimum Illumination	Color: 0.002Lux@F1.6; 0Lux@F1.6 (IR on)
S/N Ratio	More than 55dB
IR Distance	Distance up to 300m(984ft)
IR On/Off Control	Auto/Manual
IR LEDs	4
Lens	
Focal Length	6mm ~ 180mm
Max. Aperture	F1.6 ~ F4.4
Angle of View	H: 61.2° ~ 2.1°
Optical Zoom	30x
Focus Control	Auto/Manual
Close Focus Distance	100mm~ 1000mm

#### **DORI** Distance

\*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.

Detect	Observe		Recognize	Identify		
1920m(6299ft)	768m(2520ft)		384m(1260ft)	192m(630ft)		
PTZ						
Pan/Tilt Range	2		Pan: 0° ~ 360° endless; Tilt: -90° ~ 45°			
Manual Control Speed		Pan: 0.1° ~160° /s; Tilt: 0.1° ~60° /s				
Preset Speed	d		Pan:160° /s; Tilt: 60° /s			
Presets		300				
PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,Auto Scan				
Speed Setup		Human-oriented focal Length/ speed adaptation				
Power up Action		Auto restore to previous PTZ and lens status after power failure				
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period				
Protocol		DH-SD, Pelco-P/D (Auto recognition)				
Intelligence						
Auto Tracking		Support				
IVS		Tripwire, Intrusion, Abandoned/Missing, Face Detection				

#### Video Compression H.264 / MJPEG Streaming Capability 3 Streams 1080P(1920×1080)/720P(1280×720)/D1(704×576/ Resolution 704×480)/CIF(352×288/352×240) Main stream: 1080P(1~25/30fps), 720P(1~50/60fps) Frame Rate Sub stream1: D1/CIF(1 ~ 25/30fps) Sub stream2: 1080P/720P/D1/CIF (1 ~ 25/30fps) Bit Rate Control CBR/VBR H.264: 448K~8192Kbps, MJPEG: 4096K~20480Kbps Bit Rate Day/Night Auto(ICR) / Color / B/W BLC / HLC / WDR (120dB) **Backlight Compensation** White Balance Auto,ATW,Indoor,Outdoor,Manual Gain Control Auto / Manual Noise Reduction Ultra DNR (2D/3D) Motion Detetion Support **Region of Interest** Support Electronic Image Support Stabilization (EIS) Defog Support Digital Zoom 16x 180° Flip Privacy Masking Up to 24 areas Audio Compression G.711a/G.711mu/G.726/AAC Network Ethernet RJ-45 (10Base-T)/100Base-TX) IPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, Protocol DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x Interoperability ONVIF, PSIA, CGI Streaming Method Unicast / Multicast Max. User Access 20 users Edge Storage Local PC for instant recording, Micro SD card 128GB Web Viewer IE, Chrome, Firefox, Safari Smart PSS, DSS Management Software Smart Phone IOS, Android Certifications CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014 Certifications UL: UL60950-1+CAN/CSA C22.2,No.60950-1

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

1			
1/1			
1			
7/2			
AC24V/5A(±25%)			
50W, 75W (IR on, Heater on)			
-40°C $\sim$ 70°C (-40°F $\sim$ +158°F) / Less than 95% RH			
IP66			
N/A			
Construction			
Metal			
Ф202.7(mm)×390.8(mm)×472.2(mm)			
10.5kg(23.15lb)			

# **Ordering Information**

Туре	Part Number	Description	
2MP Positioning System	DH-PTZ12230F-IRB-N	2MP 30x Network IR Positioning System, WDR, PAL	
	DH-PTZ12230FN-IRB-N	2MP 30x Network IR Positioning System, WDR, NTSC	
	PTZ12230F-IRB-N	2MP 30x Network IR Positioning System, WDR, PAL	
	PTZ12230FN-IRB-N	2MP 30x Network IR Positioning System, WDR, NTSC	
Accessories	AC24V/5A	Power Supply	
	PFB712W-CA010	Wall mount	

# Accessories

### Included :



# Optional :



Wall mount

# **Dimensions (mm)**





