

2 MP Network PTZ Camera

30x Starlight IR PTZ Network Camera



- 1/2.8-in. 2 MP STARVIS™ CMOS Sensor
- Powerful 30x Optical Zoom
- · Starlight Technology for Ultra-low Light Sensitivity
- Triple-stream Encoding
- H.265 and H.264 Dual Codec
- 1080p at 60 fps, 720p at 30/60 fps Maximum Resolution
- Intelligent Video System (IVS) Analytics with Auto-tracking
- Maximum IR Distance up to 150 m (492 ft)
- IP66 Ingress Protection
- Designed for Extreme Temperature Environments
- Five-year Warranty*



System Overview

The 2 MP Starlight IR PTZ Dome camera features a 1/2.8-in. STARVIS™ CMOS imager with a 30x optical zoom lens, and provides an all in one solution for capturing long-distance video surveillance for outdoor applications. The camera uses the H.265 video compression standard to improve encoding efficiency while preserving high-quality video. The PTZ camera is equipped with quick and accurate pan/tilt/zoom control 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.

Intelligent Video System

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area. In addition to scene analytics, the camera supports face detection to quickly capture a face and upload the image to a server. The camera also offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

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.

High Efficiency Video Coding (H.265)

The H.265 (ITU-T VCEG) video compression standard offers double the data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate, as compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and difference-coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) and to the PSIA (Physical Security Interoperability Alliance) specifications, ensuring interoperability between network video products regardless of manufacturer.

Environmental

With a built-in heater and a temperature range of -40 °C to +70 °C (-40 °F to 158 °F), the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP66 rating makes it suitable for demanding outdoor applications.

Protection

www.dahuasecurity.com/en/us

This camera suits even the harsh conditions for outdoor applications. Its 6KV lightning rating provides protection against the camera and its structure from the effects of lightning. Onvie * PSIA

Video **Technical Specification** H.265, H.264, MJPEG Compression Camera Streaming Capability Three (3) Streams 1/2.8-in. STARVIS™ CMOS Sensor **Image Sensor** 1080p (1920 x 1080), 1.3 MP (1280 x 960), **Effective Pixels** 1920(H) x 1080(V), 2 MP Resolution 720p (1280 x 720), D1 (704 x 480), CIF (352 x 240) RAM/ROM 512 MB / 128 MB Main Stream 1080p or 720p at 60 fps; 1.3 MP at 30 fps Scanning System Progressive Frame Rate Sub Stream 1 D1 or CIF at 30 fps **Electronic Shutter Speed** 1/1 s to 1/300,000 s Sub Stream 2 1080p, 1.3 MP, 720p, D1, or CIF at 30 fps Color: 0.005 lux at F1.6 Minimum Illumination Bit Rate Control CBR, VBR 0 lux at F1.6 with IR on H.265/H.264: 448 K to 8192 Kbps S/N Ratio More than 55 dB Bit Rate MJPEG: 5120 K to 10240 Kbps IR Distance Distance up to 150.0 m (492.13 ft) Day/Night Auto (ICR), Color, B/W **Backlight Compensation** BLC, HLC, True WDR (120 dB) IR On/Off Control Auto, Manual White Balance Auto, ATW, Indoor, Outdoor, Manual IR LEDs Four (4) Gain Control Auto, Manual Lens Noise Reduction Ultra DNR (2D/3D) Focal Length 4.5 mm to 135 mm Motion Detection, Region of Interest, Advanced Features Electronic Image Stabilization (EIS), Defog Max. Aperture F1.6 to F4.4 Digital Zoom 16x Angle of View Horizontal: 67.8° to 2.4° Flip 180° Up to 24 areas **Privacy Masking** Optical Zoom Audio Focus Control Auto, Manual G.711a, G.711Mu, AAC, G.722, G.726, G.729, Close Focus Distance 100 mm to 1000 mm Compression MPEG2-L2 DORI Distance¹ Network Detect (8 ppf) Observe (19 ppf) Identify (76 ppf) Recognize (38 ppf) RJ-45 (10/100 Base-T) Ethernet 1862 m (6109 ft) 744 m (2441 ft) 372 m (1220 ft) 186 m (610 ft) 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, PTZ 802.1x Pan: 0° to 360° endless ONVIF, PSIA, CGI Interoperability Pan/Tilt Range Tilt: -15° to 90° Auto Flip 180° Streaming Method Unicast / Multicast Pan: 0.1° to 200° /s Manual Control Speed Max. User Access 20 users Tilt: 0.1° to 120° /s Network Attached Storage (NAS) Pan: 240° /s **Preset Speed Edge Storage** Local PC for instant recording Tilt: 200°/s Micro SD card, up to 128 GB Presets IE 10, Firefox, Safari Web Viewer PTZ Mode 5 Pattern, 8 Tour, Auto Pan, Auto Scan Management Software Smart PSS, DSS Speed Setup Human-oriented Focal Length, Speed Adaptation **Smart Phone** IOS, Android, Windows Auto restore to previous PTZ and lens status after Power up Action Certifications power failure Activate Preset, Scan, Tour, Pattern if there is no EN 55032 Idle Motion command in the specified period CE EN 55024 Protocol UI UL60950-1 + CAN/CSA C22.2, No.60950-1 **Electromagnetic Compatibility** FCC Part 15 Subpart B ANSI C63.4-2014 Interface Input: One (1) Channel Audio Output: One (1) Channel

Alarm

Input: Two (2) Channels

Output: One (1) Channel

^{1.} The DORI distance is a measure of the general proximity for a specific classification to help pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specifications and lab test results according to EN 62676-4, the standard that defines the criteria for the Detect, Observe, Recognize and Identify classifications.

Electrical

Power Supply	24 VAC, 3 A (± 10%), PoE+ (802.3at)
Power Consumption	13 W, 23 W with heater on
Environmental	
Operating Conditions	-40 °C to 70 °C (-40 °F to +158 °F), with built-in heater Less than 90% RH
Ingress Protection	IP66

Construction

Casing	Metal
Dimensions	Ø186.0 mm x 309.0 mm (Ø 7.32 in. x 12.16 in.)
Net Weight	3.50 kg (7.72 lb)
Gross Weight	6.80 kg (14.99 lb)

Intelligence

IVS triggers an alarm and takes a defined action for the following events:

 Tampering with the camera. Error writing to an onboard Micro SD card. Error sending or receiving data over the network. Unauthorized access to the camera. 		
An object moves through any part of the scene.		
A target crosses a user-defined line.		
A target enters or exits a defined perimeter.		
A person or object moves the camera to change the scene or covers the camera to obscure the scene.		
A target leaves an object in designated area, or a target removes an object from the same designated area.		
Advanced Features		
Detects and captures a snapshot of a human face in a defined area within a scene.		
Controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene.		

Ordering Information

Туре	Part Number	Description
2 MP PTZ Camera	59230UNI	2 MP 30x Starlight IR PTZ Network Camera, Built-in Heater, True WDR, IVS
Accessories, included	AC24V/3A	Power Supply
	PFA110	Mount Adapter
	PFB300S	Wall Mount
Accessories, optional	PFA120	Water-proof Junction Box
	PFA140	Power Box
	PFA150	Pole Mount
	PFA151	Corner Mount
	PFB300C	Ceiling Mount
	PFB303S	Parapet Mount

Accessories

Included:



PFB300S Wall Mount



PFA110 Mount Adapter



AC24V/3A Power Supply

Optional:



PFA140 Power Box



PFB300C Ceiling Mount



PFA120 Junction Box



PFA150 Pole Mount



PFA151 Corner Mount



PFB303S Parapet Mount

Calling Manust	Junction Mount
Ceiling Mount	
PFA110 + PFB300C	PFA110 + PFB300S + PFA120
Power Box Mount	Pole Mount
PFA110 + PFB300S + PFA140	PFA110 + PFB300S + PFA150
Corner Mount	Parapet Mount
PFA110 + PFB300S + PFA151	PFA110 + PFB303S



Dimensions (mm/in.)



