

2 MP PTZ Network Camera

2 MP 12x PTZ Network Camera



- 1/2.7-in. 2 MP CMOS Imager
- Powerful 12x Optical Zoom
- Triple-stream Encoding
- Maximum 30 fps at 1080p, 30/60 fps at 720p
- ArcticPro Series Camera - Operational down to -40°C (-40°F)
- IP66 Ingress Protection and IK10 Vandal Resistance
- Intelligent Video Analysis (IVS)
- Supports PoE+
- Five-year Warranty



System Overview

Featuring with powerful optical zoom and accurate pan/tilt/zoom performance, the SD40 series PTZ camera can provide large monitoring range and great detail. The camera delivers 1080p resolution at 30 fps, with 12x optical zoom. SD40 series PTZ cameras are equipped with quick, smooth control, high quality image and good protection, which meets most of the requirements of video surveillance applications.

Functions

Smart H.264+

Delivering high quality video without straining the network, Smart H.264+ is the optimized implementation of H.264. The Smart H.264+ encoding platform includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing a savings of up to 70% of bandwidth and storage when compared with standard H.264.

Wide Dynamic Range

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. 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.

ArcticPro

The Dahua ArcticPro Series of extreme-environment cameras combine temperature-tolerant components, a waterproof enclosure, and an integrated heater to ensure flawless operation in temperatures as low as -40°C (-40°F). For applications that demand high-resolution video with advanced features in extremely cold environments, the Dahua ArcticPro Series offers a camera to satisfy the most demanding requirements.

Environmental

The camera complies with the IK10 Vandal Resistance impact rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in.). Subjected to rigorous dust and water immersion tests and certified to the IP66 Ingress Protection rating makes it suitable for demanding outdoor applications.

Protection

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.

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

Camera

Image Sensor	1/2.7 in. CMOS
Effective Pixels	1920(H) x 1080(V), 2 MP
RAM/ROM	256 MB / 128 MB
Scanning System	Progressive
Minimum Illumination	Color: 0.05 Lux at F1.6; B/W: 0.005 Lux at F1.6
S/N Ratio	More than 55 dB

Lens

Focal Length	5.1 mm to 61.2 mm
Max. Aperture	F1.6 to F3.0
Angle of View	H: 59.3° to 5.2°
Optical Zoom	12x
Focus Control	Auto, Manual
Close Focus Distance	100 mm to 1000 mm

PTZ

Pan/Tilt Range	Pan: 0° to 360° endless; Tilt: -2° to 90°, auto flip 180°
Manual Control Speed	Pan: 0.1° to 300°/s; Tilt: 0.1° to 120°/s
Preset Speed	Pan: 300°/s; Tilt: 200°/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

Video

Compression	Smart H.264+, H.264, MJPEG	
Streaming Capability	3 Streams	
Resolution	1080p (1920 × 1080), 720p (1280 × 720), D1 (704 × 480), CIF (352 × 240)	
Frame Rate	Main Stream	1080p, D1 at 30 fps, 720p at 60 fps
	Sub Stream 1	D1/CIF at 30 fps
	Sub Stream 2	720p/D1/CIF at 30 fps

Bit Rate Control	CBR, VBR
Bit Rate	Smart H.264+, H.264: 448 K to 8192 Kbps, MJPEG: 5120 K to 10240 Kbps
Day, Night	Auto(ICR), Color, B/W
Backlight Compensation	BLC, HLC, WDR(120dB)
White Balance	Auto, ATW, Indoor, Outdoor, Manual
Gain Control	Auto, Manual
Noise Reduction	Ultra DNR (2D, 3D)
Motion Detection	Support
Region of Interest	Support
Defog	Support
Digital Zoom	16x
Flip	180°
Privacy Masking	Up to 24 areas

Audio

Compression	G.711a, G.711u(32 kbps), PCM(128 kbps)
-------------	--

Network

Ethernet	RJ-45 (10, 100Base-T)
Protocol	IPv4, IPv6, HTTP, HTTPS, SSL, TCP, IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, 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	NAS (Network Attached Storage), Local PC for instant recording, 128GB
Web Viewer	IE10, Google, Firefox, Safari
Management Software	Smart PSS, DSS
Smart Phone	iPhone, iPad, Android, Windows Phone

Certifications

Certifications	CE: EN55032, EN55024, EN50130-4 FCC: Part15 subpartB, ANSI C63.4- 2014 UL: UL60950-1+CAN, CSA C22.2, No.60950-1
----------------	---

Interface

Audio Interface	Input: One (1) Channel Output: One (1) Channel
Alarm	Input: Two (2) Channels Output: One (1) Channel

Electrical

Power Supply	24 VAC, 1.5 A (±10%), PoE+(802.3at)
Power Consumption	12 W, 22 W with heater on

Environmental

Operating Conditions	-40°C to 60°C (-40°F to +140°F) / Less than 90% RH
Ingress Protection	IP66
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	Ø186.0 mm × 234.0 mm (7.32 in. x 9.21 in.)
Net Weight	2.30 kg (5.07 lb)
Gross Weight	4.30 kg (9.48 lb)

Intelligence

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

Standard Features	<ul style="list-style-type: none"> • 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.
Premium Features	
Motion	An object moves through any part of the scene.
Tripwire	A target crosses a user-defined line.
Intrusion	A target enters or exits a defined perimeter.
Abandoned/Missing Object	A target leaves an object in designated area, or a target removes an object from the same designated area.

Ordering Information

Type	Part Number	Description
2 MP PTZ Camera	40212TNI	2 MP 12x PTZ Network Camera, WDR, IVS
Accessories	PFB300S	Wall Mount
	PFA110	Mount Adapter
	AC24V/1.5A	Power Supply
	PFA140	Power box
	PFB300C	Ceiling Mount
	PFA120	Junction Box
	PFA150	Pole Mount
	PFA151	Corner Mount
PFB303S	Parapet Mount	

Accessories

Included:



PFB300S
Wall Mount



PFA110
Mount Adapter



AC24V/1.5A
Power Supply

Optional:



PFA140
Power box



PFB300C
Ceiling Mount



PFA120
Junction Box



PFA150
Pole Mount



PFA151
Corner Mount



PFB303S
Parapet Mount

Ceiling Mount	Junction 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)

