

2 MP Mini PTZ Network Camera

2 MP 12x Starlight Mini PTZ Network Camera



- 1/2.8-in. 2MP STARVIS™ CMOS Sensor
- · Starlight Technology for Ultra-low Light Sensitivity
- Powerful 12x Optical Zoom
- Triple-stream Encoding
- H.265 and H.264 Dual Codec
- 1080p at 30 fps Maximum Resolution
- Intelligent Video System (IVS) Analytics
- IP66 Ingress Protection and IK10 Vandal Resistance
- PoE+ Support
- Five-year Warranty*













System Overview

The 2 MP Starlight Mini PTZ Dome camera features a 1/2.8-in. STARVIS™ CMOS imager with a 12x optical zoom lens, and provides an all in one solution for capturing long-distance video surveillance for indoor and 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 light sensitivity that captures 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 offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

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.

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.

Environmental

With a temperature range of $-30\,^{\circ}\text{C}$ to $+60\,^{\circ}\text{C}$ ($-22\,^{\circ}\text{F}$ to $140\,^{\circ}\text{F}$), the camera is designed for extreme temperature environments. The camera complies with an IK10 vandal resistance 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 and certified to rigorous dust and water immersion tests, the IP66 rating makes it suitable for demanding outdoor applications.

Cybersecurity

Dahua network cameras are equipped with a series of key cybersecurity technologies including: security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage. These technologies improve the camera's ability to prevent malicious access and to protect data.

Protection

This camera suits even the harsh conditions for outdoor applications. Its 2KV lightning rating provides protection against the camera and its structure from the effects of lightning.

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Technical Specification				
Camera		1/20:	- CTADVICIM CNAOC C	
Image Sensor Effective Pixels			n. STARVIS™ CMOS Sen H) x 1080(V), 2MP	sor
RAM/ROM			//B / 128 MB	
Scanning System		Progre		
Electronic Shutter S	Speed		o 1/30,000 s	
Minimum Illumination		Color:	0.005 lux at F1.6 0.0005 lux at F1.6	
S/N Ratio		More t	han 50 dB	
Lens				
Focal Length		5.3 mm to 64 mm		
Max. Aperture		F1.6 to F4.4		
Angle of View		Horizontal: 58.2° to 4.8°		
Optical Zoom		12x		
Focus Control		Auto, I	Manual	
Close Focus Distance		100 m	m to 1000 mm	
DORI Distance ¹				
Detect (8 ppf)	Observe (19	9 ppf)	Recognize (38 ppf)	Identify (76 ppf)
883 m (2897 ft)	353 m (1158 ft)		177 m (581 ft)	88 m (289 ft)

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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 Compensation	Proportional Pan/Tilt Speed to Zoom Ratio
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	H.265, H.264
Streaming Capability	Three (3) Streams
Resolution	1080p (1920 x 1080), 1.3 MP (1280 x 960), 720p (1280 x 720), D1 (704 x 480), CIF (352 x 240)

		Main Stream	1080p, 720p, or D1 at 30 fps
Frame F	Rate	Sub Stream 1	D1 or CIF at 30 fps
		Sub Stream 2	1080p, 720p, D1, or CIF at 30 fps
Bit Rate	Bit Rate Control		CBR, VBR
Bit Rate	!		H.265/H.264: 448 K to 8192 Kbps MJPEG: 5120 K to 10240 Kbps
Day/Nig	ght		Auto (ICR), Color, B/W
Backligl	nt Comp	pensation	BLC, HLC, True WDR (120 dB)
White E	Balance		Auto, ATW, Indoor, Outdoor, Manual
Gain Co	ntrol		Auto, Manual
Noise R	eductio	on	Ultra DNR (2D/3D)
Advance	ed Featu	res	Motion Detection, Region of Interest, Defog
Digital 2	Zoom		16x
Flip			180°
Privacy	Maskin	g	Up to 24 areas
Audio			
Compre	ession		G.711a, G.711u (32 kbps), PCM (128 kbps)
Netwo	ork		
Etherne	et		RJ-45 (10 Base-T/100 Base-TX)
Protoco	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
Interop	erabilit	у	ONVIF, PSIA, CGI
Stream	ing Met	hod	Unicast / Multicast
Max. Us	ser Acce	ess	20 Users
Edge St	orage		Network Attached Storage (NAS) Local PC for Instant Recording Micro SD Card Slot, maximum 128 GB
Web Vi	ewer		IE 10, Firefox, Safari
Manage	ement S	oftware	Smart PSS, DSS
Mobile	Operat	ing System	IOS, Android
Cyberse	Cybersecurity		Video Encryption, Firmware Encryption, Configuration Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade
Certifications			
CE	CE		EN 55032 EN 55024 EN 50130-4
UL			UL60950-1 + CAN/CSA C22.2, No.60950-1
Electron (EMC)	Electromagnetic Compatibility (EMC)		CFR 47 FCC Part 15 Subpart B ANSI C63.4-2014
Interf	Interface		
Audio			Input: One (1) Channel Output: One (1) Channel
Alarm			Input: Two (2) Channels Output: One (1) Channel

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, 1.5 A; PoE+ (802.3at Class 4)
Power Consumption	12 W

Environmental

Operating Conditions	-30° C to 60° C (-22° F to +140° F) Less than 90% RH
Ingress Protection	IP66
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	ø170.0 mm x 155.0 mm (ø6.69 in. x 6.10 in.)
Net Weight	1.80 kg (3.97 lb)
Gross Weight	3.30 kg (7.28 lb)

Intelligence

Object

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

The tribbers are diameter a defined determined the following events.		
Standard Features	 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.	
Scene Change	A person or object moves the camera to change the scene or covers the camera to obscure the scene.	
Abandoned/Missing	A target leaves an object in designated area, or a target	

removes an object from the same designated area.

Ordering Information		
Туре	Part Number	Description
2 MP PTZ Camera	42212TNI	2 MP 12x Starlight Mini PTZ Network Camera, True WDR, IVS
Accessory, included	AC24V/1.5A	Power Adapter
Accessories, optional	PFA102	Mount Adapter
	PFA150	Pole Mount
	PFA151	Corner Mount
	PFB300C	Ceiling Mount
	PFB302S	Wall Mount

Accessories

Included:



AC24V/1.5A Power Adapter

Optional:







PFA102 Mount Adapter

PFA151 Corner Mount

PFA150 Pole Mount





PFB300C Ceiling Mount

PFB302S Wall Mount

Ceiling Mount Wall Moun	t	
Ceiling Mount	Wall Mount	
PFA102 + PFB300C	PFA102 + PFB302S	
Pole Mount	Corner Mount	
PFA102 + PFB302S + PFA150	PFA102 + PFB302S + PFA151	
	0	
Dimensions (mm/in.)		

