

2 MP Portable PTZ Network Camera

30x True WDR IR H.264 Camera



- 1/2.8-in. 2 MP Progressive Scan CMOS
- H.264 Video Compression
- 2 MP (1920 × 1080) at 30 fps
- Powerful 30x Optical Zoom
- 4.5 mm to 135 mm Optical Zoom Lens
- Maximum IR LED Distance 80 m (262 ft)
- 256 Preset Positions and 8 Tours
- Supports Micro SD Card, 128 GB maximum
- IP66 Ingress Protection
- Five-year Warranty*

System Overview

Dahua's Mobile series of cameras offers high-resolution video and cutting-edge technology in a compact and accessible package. The 2 MP IR Portable PTZ Dome camera features a 1/2.8-in. CMOS imager with a 30x optical zoom lens, and provides an all in one solution for capturing mobile video surveillance for indoor and outdoor applications. The camera uses the H.264 video compression standard to improve encoding efficiency while preserving high-quality video and is equipped with quick and accurate pan/tilt/zoom control.

Functions

True 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.

Intelligent Video System (IVS)

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 detects and captures a snapshot of human face in a defined area within a scene, and offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

Street Light Compensation

The camera delivers exceptional images even when shooting under sodium-vapor lamps that typically add a yellowish-tint to the scene hampering identification. This camera provides a built-in white-balance mode that compensates for the tint to restore the scene to its original color.

Advanced 3DNR

3DNR is noise reduction technology that detects and eliminates random noises by comparing two sequential frames. Dahua's advanced 3DNR technology delivers remarkable noise reduction with little impact to sharpness, especially under limited lighting condition. 3DNR, in addition, effectively decreases the bandwidth and saves storage space.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specification, ensuring interoperability between network video products regardless of manufacturer.

Environmental

With a temperature range of -35° C to +60° C (-31° F to +140° F), the camera is designed for extreme temperature environments. Subjected to rigorous dust and water immersion tests and certified to the IP66 Ingress Protection rating makes it suitable for demanding outdoor applications.

Technical Specification

Camera

Image Sensor	1/2.8-in. Progressive-scan CMOS Sensor
Effective Pixels	1920(H) x 1080(V), 2 MP
Scanning System	Progressive
Electronic Shutter Speed	1/1 s to 1/30,000 s
Minimum Illumination	Color: 0.005 lux at F1.6 0 lux at F1.6 (IR on)
S/N Ratio	More than 55 dB
IR Distance	Up to 80 m (262.47 ft)
IR On/Off Control	Auto, Manual
IR LEDs	Two (2)

Lens

Focal Length	4.5 mm to 135 mm
Maximum Aperture	F1.6 to F4.4
Angle of View	Horizontal: 2.77° to 67.80°
Optical Zoom	30x
Focus Control	Auto, Manual
Close Focus Distance	100 mm to 1000 mm (3.93 in. to 39.37 in.)

PTZ

Pan/Tilt Range	Pan: 0° to 360°, endless Tilt: -20° to 90°
Manual Control Speed	Pan: 0.1° to 90° /s Tilt: 0.1° to 60° /s
Preset Speed	Proportional Pan/Tilt Speed to Zoom Ratio
Presets	256
PTZ Mode	8 Tours
Power up Action	Auto restore to previous PTZ and lens status after power failure
Idle Motion	Activate Preset, Scan, Tour, or Pattern if there is no command in the specified period
Protocol	DH-SD, Pelco-P/D (auto recognition)

Video

Compression	H.264 Baseline, H.264 Main Profile, H.264 High Profile, MJPEG
Streaming Capability	Three (3) Streams
Resolution	1080p (1920 x 1080)
White Balance	Auto, Manual, ATW, Outdoor, Indoor, Outdoor Auto, Sodium Lamp Auto, Sodium Lamp
Gain Control	Auto, Manual
Noise Reduction	Ultra DNR (2D/3D)
Backlight Compensation	BLC, HLC, True WDR (120 dB)
Digital Zoom	16x
Flip	180°

Audio

Compression	G.711a, G.711Mu, PCM, AAC, G.722, G.726, G.729, MPEG2-L2
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Network

Ethernet	RJ45 (10/100 Base-T)
Protocol	IPv4/IPv6, HTTP, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP, PPPoE
Interoperability	ONVIF
Streaming Method	Unicast, Multicast
Maximum User Access	20
Edge Storage	Micro SD Card, maximum 128 GB
Web Viewer	IE 10, Firefox, Safari
Management Software	Smart PSS, DSS
Mobile Operating System	IOS, Android

Certifications

Safety	EN 60950:2000 UL 60950-1
Mobile Applications	EN 50155 E-mark (ECE-Regulation No.10)
Electromagnetic Compatibility	FCC Part 15 Subpart B

Electrical

Power Supply	12 VDC
Power Consumption	< 12 W, IR Off; 24 W, IR On

Environmental

Operating Conditions	-35° C to +60° C (-31° F to +140° F), Less than 90% RH
Storage Conditions	-35° C to +60° C (-31° F to +140° F), Less than 90% RH
Ingress Protection	IP66

Construction

Casing	Aluminum Alloy (Main Body)
Dimensions	124.0 mm x 120.0 mm x 210.0 mm (4.88 in. x 4.72 in. x 8.27 in.)
Net Weight	2.50 kg (5.52 lb)
Gross Weight	3.50 kg (7.72 lbs)

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.
Scene Change	A person or object moves the camera to change the scene or covers the camera to obscure the scene.
Abandoned/Missing Object	A target leaves an object in designated area, or a target removes an object from the same designated area.
Advanced Features	
Facial Detection	Detects and captures a snapshot of human face in a defined area within a scene.

Ordering Information

Type	Part Number	Description
2 MP PTZ Camera (Outdoor)	DHI-MPTZ1100-203RA-NT	2 MP IR 30x PTZ Network Camera, 4.5 mm to 135 mm
2 MP PTZ Camera (Indoor)	DHI-MPT1100-2030RA-NC	2 MP IR 30x PTZ Network Camera, 4.5 mm to 135 mm, with ceiling bracket

Dimensions (mm)

