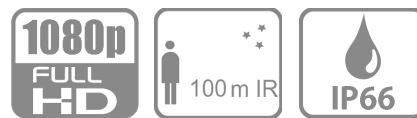


2 MP HDCVI PTZ Dome

20x IR Speed HDCVI PTZ Dome Camera



- 1/2.8-in. 2 MP Progressive Scan CMOS
- Powerful 20x Optical Zoom
- 720p at 60 fps and 1080p at 30 fps
- Digital Wide Dynamic Range
- Max. IR distance up to 100 m (328 ft)
- IP66 Ingress Protection
- Designed for Extreme Temperature Environments
- Five-year Warranty



System Overview

The 2 MP IR PTZ Dome camera features a 1/2.8-in CMOS imager with a 20x optical zoom lens, and provides an all in one solution for capturing long-distance video surveillance for outdoor applications. The camera uses a high-performance ISP and sensor to provide clear images with crisp details. The PTZ camera is equipped with quick and accurate pan/tilt/zoom control and Digital WDR for applications with direct sunlight or glare.

Functions

Three Signals over One Coaxial Cable

HDCVI technology simultaneously transmits three signals (video, audio, and control) over a single coaxial cable. Dual-way data transmission allows the HDCVI camera to communicate with an HCVR to send control signals or to trigger alarms. Moreover, HDCVI technology supports PoC for construction flexibility.

Simplicity

HDCVI technology seamlessly integrates traditional analog surveillance systems with upgraded, high-quality HD video, making it the best choice to protect security investments. The plug and play approach enables full HD video surveillance without the hassles of configuring a network.

Dual Video Output Signals

The camera offers one (1) BNC video output connection to transmit an HDCVI or a CVBS signal. These output signals allow the camera to integrate with various devices, including analog matrix systems and monitors.

Long Distance Transmission

HDCVI technology guarantees real-time transmission over long distances without loss of video quality. HDCVI cameras provide the same resolution as most IP network camera systems using existing RG-59, RG-6, or CAT 6 UTP cabling.

Environmental

With a built-in heater and a temperature range of -40 °C to +60 °C (-40 °F to +140 °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

Supporting $\pm 25\%$ input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 8KV lightning rating provides protection against the camera and its structure from the effects of lightning.

Technical Specification

Camera

Image Sensor	1/2.8-in. CMOS
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: 0.05 Lux at F1.4 B/W: 0.005 Lux at F1.4 0 Lux at F1.4 (IR on)
S/N Ratio	More than 50 dB
IR Distance	Distance up to 100.0 m (328.10 ft)
IR On/Off Control	Auto, Manual
IR LEDs	Six (6)

Lens

Lens Type	Motorized, Auto-iris
Mount Type	Board-in
Focal Length	4.7 mm to 94 mm
Max. Aperture	F1.4 to F2.6
Angle of View	Horizontal: 3.1° to 54.1°
Optical Zoom	20x
Focus Control	Auto, Manual
Close Focus Distance	100 mm to 1000 mm

PTZ

Pan/Tilt Range	Pan: 0° to 360° endless Tilt: -15° to 90°, Auto Flip 180°
Manual Control Speed	Pan: 0.1° to 160° /s Tilt: 0.1° to 120° /s
Preset Speed	Pan: 240° /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, or Pattern if there is no command in the specified period
Protocol	DH-SD, Pelco-P/D (auto recognition)

Video

Resolution	1080p (1920 x 1080), 720p (1280 x 720), D1 (704 x 480), CIF (352 x 240)
Frame Rate	1080p at 30 fps or 720p at 30/60 fps
Video Output	One (1) Channel, BNC: HDCVI High-definition Video Output or CVBS Standard Definition Video Output (switchable)
Transmission Distance ¹	RG-59/U Coax 720p: 500 m (1640.42 ft) 1080p: 400 m (1312.34 ft)
	RG-6/U Coax 720p: 800 m (2624.67 ft) 1080p: 600 m (1968.50 ft)
	CAT 6 UTP (balun required) 720p: 380 m (1246.72 ft) 1080p: 380 m (1246.72 ft)

Day/Night	Auto (ICR), Color, B/W
Backlight Compensation	BLC, HLC, DWDR
White Balance	Auto, ATW, Indoor, Outdoor, Manual
Gain Control	Auto, Manual
Noise Reduction	Ultra DNR (2D/3D)
Digital Zoom	16x
Flip	180°
Privacy Masking	Up to 24 areas

Certifications

Safety	Conforms to UL Standards
Electromagnetic Compatibility (EMC)	FCC Part 15 Subpart B

Interface

Video	One (1) BNC
Audio	Input: One (1) Channel
RS485	One (1)
Alarm	In: Two (2) Channels Out: One (1) Channel

Electrical

Power Supply	24 VAC, 3 A (± 10%)
Power Consumption	10.5 W, 26 W with IR on

Environmental

Operating Conditions	-40° C to 60° C (-40° F to +140° F), Less than 90% RH Initiate Startup above -35° C (-31° F)
Storage Conditions	-30° C to 60° C (-22° F to +140° F), Less than 90% RH
Ingress Protection	IP66
Lightning Protection Rating	8 kV

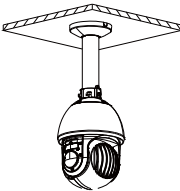
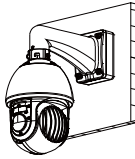
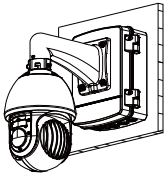
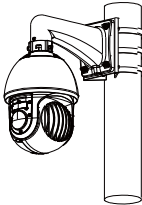

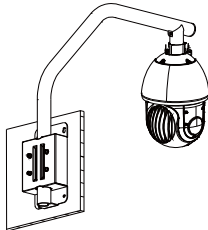
Construction

Casing	Metal
Dimensions	Φ204.70 mm x 359.90 mm (Φ8.06 in. x 14.17 in.)
Net Weight	7.80 kg (17.20 lb)
Gross Weight	8.30 kg (18.30 lb)

1. Transmission distance results verified by real-scene testing in Dahua's test laboratory. Actual transmission distances may vary due to external influences, cable quality, and wiring structures.

Ordering Information

Type	Part Number	Description
2 MP PTZ Camera	DH-SD6CA220IN-HC	2 MP 20x IR HDCVI PTZ Camera, WDR, IP66
Accessories, included	AC24V/3A	Power Supply
	64FB	Wall Mount
Accessories, optional	PFA114	Mount Adapter
	PFA120	Junction Box
	PFA140	Power box
	PFA150	Pole Mount
	PFA151	Corner Mount
	PFB300C	Ceiling Mount
	PFB303S	Parapet mount
	PFB303W	Wall Mount

Ceiling Mount	Junction Mount
PFA114 + PFB300C	PFA114 + PFB303W + PFA120
	
Power Box Mount	Pole Mount
PFA114 + PFB303W + PFA140	PFA114 + PFB303W + PFA150
	
Corner Mount	Parapet Mount
PFA114 + PFB303W + PFA151	PFA114+ PFB303S
	

Accessories

Included:



64FB
Wall Mount



AC24V/3A
Power Supply

Optional:



PFA120
Junction Box



PFA150
Pole Mount



PFA140
Power box



PFB300C
Ceiling Mount



PFA151
Corner Mount



PFB303S
Parapet Mount



PFA114
Mount Adapter



PFB303W
Wall Mount

Dimensions (mm)

