

# 2 MP IR Fixed HDCVI Dome Camera

## 2 MP Mobile IP67 HDCVI Camera



- 1/2.7-in. 2 MP Progressive-scan CMOS
- 2 MP (1920 x 1080) at 30 fps
- 2.1 mm Fixed Lens
- Wide Dynamic Range and Day/Night IR Cut Filter
- Aviation Connector for HDCVI Output
- Built-in Microphone
- IP67 Ingress Protection and IK10 Vandal Resistance
- IP6K9K Ingress Protection - Dust-proof and Waterproof Housing
- 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 camera seamlessly integrates with existing analog infrastructures, simplifying installation; and the shock-proof, compact case makes the camera adaptable to any environment. HDCVI technology ensures real-time transmission of high-definition images over long distances

### Functions

#### Four Signals over a Single Coaxial Cable

HDCVI technology simultaneously transmits video, audio, power, and data 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. HDCVI along with PoC technology delivers power<sup>1</sup> to devices at the edge, simplifying installation.

#### Shock Proof

Vibration is inevitable in mobile applications. In order to avoid image or connection failure, the hardware structure of the mobile camera is shock-proof and is certified to the EN50155 standard. Plus, the mobile camera uses an M12 aviation connector for stable connection to an MCVR.

#### 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.

### Environmental

With a temperature range of -40 °C to +70 °C (-40 °F to +158 °F), the camera is designed for extreme temperature environments. The camera complies with an IK10 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 and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

The IP6K9K rating specifies that the housing is impervious to dust and to high-pressure water and steam jet cleaning.

### Protection

The camera allows for ±25% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 4KV lightning rating provides effective protection for both the camera and its structure against lightning.

1. Requires PoC Transceivers for each channel and an external power supply for each transceiver.

## Technical Specification

### Camera

Image Sensor	1/2.7-in. CMOS
Effective Pixels	1920(H) x 1080(V), 2.0 MP
Scanning System	Progressive
Electronic Shutter Speed	1/30 s to 1/100000 s
Minimum Illumination	Color: 0.02 lux at F2.0 B/W: 0.002 lux at F2.0
S/N Ratio	More than 65 dB

### Lens

Lens Type	Fixed Lens / Fixed Iris
Mount Type	Board-in
Focal Length	2.1 mm
Max Aperture	F2.0
Angle of View, Horizontal	136°
Close Focus Distance	300 mm (11.80 in.)

### DORI<sup>2</sup> Distance

Detect (8 ppf)	Observe (19 ppf)	Recognize (38 ppf)	Identify (76 ppf)
30.30 m (99.40 ft)	12.10 m (39.70 ft)	6.10 m (20.0 ft)	3.0 m (9.80 ft)

### Pan / Tilt / Rotation

Range	Pan: -30° to 30° Tilt: 0° to 80° Rotation: 0° to 360°
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### Video

Resolution	1080p (1920 x 1080)	
Frame Rate	1080p at 30 fps	
Video Output	One (1) BNC HDCVI High-definition Channel, M12 A-coded Aviation Connector	
Video Transmission <sup>3</sup>	RG-59/U Coax	720p: 800 m (2624.67 ft) 1080p: 500 m (1640.42 ft)
	RG-6/U Coax	720p: 1200 m (3937.01 ft) 1080p: 800 m (2624.67 ft)
	CAT 6 UTP (balun required)	720p: 450 m (1476.38 ft) 1080p: 300 m (984.25 ft)
Day/Night	Auto (ICR), Manual	
OSD Menu	Multi-language	
BLC Mode	BLC, HLC, DWDR	
WDR	Digital WDR	
Gain Control	AGC	
Noise Reduction	2D	
White Balance	Auto, Manual	

### Audio

Audio	Built-in Microphone
Aviation Connection	<ul style="list-style-type: none"> <li>• 1 Red: Power</li> <li>• 2 White: Video Ground</li> <li>• 3 Black: Power Ground</li> <li>• 4 Yellow: Video</li> </ul>

### Certifications

CE	EN55032 EN55024 EN50130-4
Safety	UL L60950-1 CAN/CSA C22.2 No.60950-1
Mobile Applications	EN50155 (EN50121-3-2, IEC61373)
Electromagnetic Compatibility	FCC Part 15 Subpart B ANSI C63.4-2014

### Electrical

Power Supply	12 VDC ±25%
Power Consumption	Maximum 1.19 W

### Environmental

Operating Conditions	-40° C to +70° C (-40° F to +158° F), Less than 95% RH Initiate Start Up above -40° C (-40° F)
Storage Conditions	-40° C to +70° C (-40° F to +158° F), Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

### Construction

Casing	Aluminum
Dimensions	ø106.0 mm x 50.30 mm (ø4.17 in. x 1.98 in.)
Net Weight	0.304 kg (0.67 lb)
Gross Weight	0.422 kg (0.93 lb)

2. 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.

3. 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 HDCVI Camera	DH-HAC-HDB1200FN-M	2 MP Dome HDCVI Camera, 2.1 mm, WDR

**Dimensions (mm/inch)**

