DH-HAC-HMW3200

2MP Mobile HDCVI IR Cube Camera

HDCVI



- Max 30fps@1080P
- HDCVI output (Aviation connector)
- 3.6mm fixed lens (2.8mm optional)
- Max. IR length 20m, Smart IR
- IP67, DC12V
- Shock-proof

EN50155 | 1080p FULL HD | 20m IR | DC 12V | IP67 | Temperature

System Overview

Experience a 1080P full HD mobile video surveillance solution with the simplicity of analog infrastructure. The mobile camera is designed with a shock-proof, compact case, which makes it convenient to install and adaptable to various applications. It offers a high quality image as well as a multi-language OSD. In addition, the camera employs the strengths of HDCVI to ensure real-time transmission.

Functions

Elaborate Design

For better adapting the applications for vehicles, the mobile camera is designed with micro-sized compact case, which minimizes the interference against on-going activities. Taking aesthetics requirements into consideration, the body and front face of the camera is all-black.

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 with the certification of EN50155. Plus, the mobile camera adopts M12 aviation connector for stable connection with MCVR.

Simplicity

HDCVI technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. The plug and play approach enables full HD video surveillance without the hassle of configuring a network. HDCVI system can seamlessly upgrade the traditional analog system without replacing existing cabling.

4 Signals over 1 Coaxial Cable

HDCVI Mobile Camera supports 4 signals to be transmitted over 1 cable simultaneously, i.e. video, audio*, data and power. Dual-way data transmission allows the HDCVI camera to interact with the HCVR, such as sending control signal or triggering alarm.

* Audio input is available for some models of HDCVI cameras.

Smart IR

The camera is designed with array LED IR illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. Dahua's unique Smart IR adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object, and prevents IR LEDs from overexposing images as the object come closer to the camera.

Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67 ranking, making it suitable for indoor or outdoor environments.
With working temperature range of -40 °C to +70 °C (-40 °F to +158 °F), the camera is designed for extreme temperature environments.
Supporting ±25% input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.

Horizontal Mirror

For backward monitoring in a vehicle, the image of the mobile camera is horizontal mirrored by default, which makes the preview image and recording video same as the actual scene.

Technical Specification

Camera

Image Sensor	1/2.9" CMOS
Effective Pixels	1920(H)×1080(V), 2MP
Scanning System	Progressive
Electronic Shutter Speed	PAL: 1/25~1/100000s NTSC: 1/30~1/100000s
Minimum Illumination	0.02Lux/F2.0, 30IRE, 0Lux IR on
S/N Ratio	More than 65dB
IR Distance	Up to 20m (66feet)
IR On/Off Control	Auto / Manual
IR LEDs	1

Lens

Lens Type	Fixed lens / Fixed iris
Mount Type	Board-in
Focal Length	3.6mm (2.8mm Optional)
Max Aperture	F2.0
Angle of View	H: 82.8° (106°)
Focus Control	N/A
Close Focus Distance	800mm (500mm) 31.50'' (19.69'')

DORI Distance

Note: The DORI distance is a "general proximity" of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.

	DORI Definition	Distance
Detect	25px/m (8px/ft)	3.6mm: 57m(187ft) 2.8mm:45m(149ft)
Observe	63px/m (19px/ft)	3.6mm: 23m(75ft) 2.8mm:18m(59ft)
Recognize	125px/m (38px/ft)	3.6mm: 11m(37ft) 2.8mm:9m(30ft)
Identify	250ppm (76px/ft)	3.6mm: 6m(19ft) 2.8mm:5m(15ft)

Pan / Tilt / Rotation

Pan/Tilt/Rotation	Pan: 0° ~ 360° Tilt: 0° ~ 180° Rotation: N/A

Video

Resolution	1080P (1920×1080)
Frame Rate	25/30fps@1080P, 25/30/50/60fps@720P
Video Output	1-channel BNC HDCVI high definition video output (Aviation connector)
Day/Night	Auto (ICR) / Manual
OSD Menu	Multi-language
BLC Mode	BLC / HLC / DWDR
WDR	DWDR
Gain Control	AGC
Noise Reduction	2D
White Balance	Auto / Manual
Smart IR	Auto / Manual
Mirror	Horrizontal mirror (default)

Certifications

Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) EN50155 (EN50121-3-2, IEC61373) IP6K9K

Interface

Audio Interface	Built-in Mic
Aviation Connector Interface	1-power 2-video ground 3-power ground 4-video

Eelectrical

Power Supply	12V DC ±25%
Power Consumption	Max 2.9W (12V DC, IR on)

Environmental

Operating Conditions	-40°C ~ +70°C (-40°F ~ +158°F) / Less than 95% RH * Start up should be done at above-40°C (-40°F)
Storage Conditions	-40°C ~ +70°C (-40°F ~ +158°F) / Less than 95% RH
Ingress Protection & Vandal Resistance	IP67

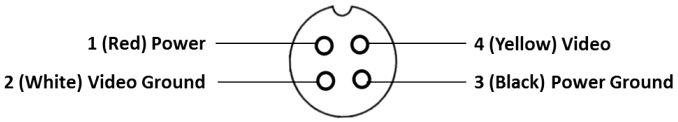
Construction

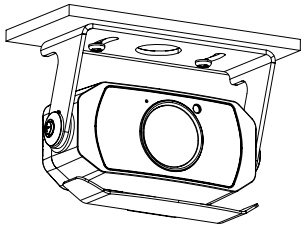
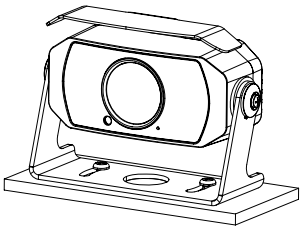
Casing	Aluminium
Dimensions	107.3mm×42.5×54.5mm (4.22"×1.67"×2.15")
Net Weight	0.31kg (0.68lb)
Gross Weight	0.42kg (0.93lb)

Ordering Information

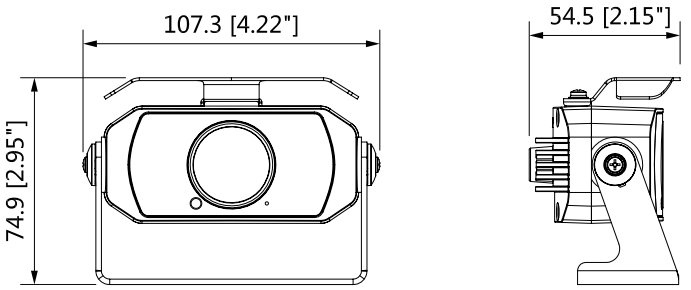
Type	Part Number	Description
2MP Camera	DH-HAC-HMW3200P (2.8mm)	2MP Mobile HDCVI IR Cube Camera, PAL
	DH-HAC-HMW3200P (3.6mm)	
	DH-HAC-HMW3200N (2.8mm)	2MP Mobile HDCVI IR Cube Camera, NTSC
	DH-HAC-HMW3200N (3.6mm)	

Aviation Connector



Ceiling Mount	Plane Mount
	

Dimensions (mm/inch)



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