DH-HAC-HMW3200L-FR

2MP Double-lens HDCVI Mobile IR Camera

HDCVI

- Max 30fps@1080P
- HD and SD output switchable
- 2.1mm fixed lens
- Built-in Mic
- Max. IR length 3m, Smart IR
- DC12V

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

Double-lens

DH-HAC-HMW3200L-FR is designed for application that require rear and front surverillance simultaneously when mounts on the mobile vehicle's front windshield.The device is equipped with two cameras, providing both video and audio output respectively via its own coax.In applications it offers cost-effective full featured capabilities.

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.

Audio

The camera is designed with built-mic for realizing audio collection and transmision over the aviation connector cable. Dahua's HDCVI audio compression technology to ensure the synchronization of audio and video. Provides A/V evidence to avoid various incidents caused by oral dispute.

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. On the other hand this camera can utilise double-sided tape for easy and convenient mounting.

Multi-formats

The camera supports multiple video formats including HDCVI, CVBS and other two common HD analog formats in the market. The four formats can be switched over through OSD menu or by PFM820(UTC controller). This feature makes the camera to be compatible with not only HCVRs but also most end users' existing HD/SD DVRs.

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.

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	1/2.7" 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(internal)	Up to 3m (9.8feet)
IR On/Off Control	Auto/Color/B/W
IR LEDs	1

Lens

Lens Type	Fixed lens / Fixed iris
Mount Type	Board-in
Focal Length	2.1mm (Rear) 2.8mm(Front)
Max Aperture	F2.0
Angle of View	H: 139° (Rear) H: 116° (Front)
Focus Control	Front: 0.4m(1.3ft) Rear: 0.3m(0.98ft)

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)	Front:37.3m(122.4ft) Rear:35.5m(116.5ft)
Observe	63px/m (19px/ft)	Front:14.9m(48.9ft) Rear:14.2m(46.6ft)
Recognize	125px/m (38px/ft)	Front:7.5m(24.6ft) Rear:7.1m(23.3ft)
Identify	250ppm (76px/ft)	Front:3.7m(12.1ft) Rear:3.5m(11.5ft)

Pan / Tilt / Rotation

Pan/Tilt/Rotation	Pan: 0° ~ 30° Tilt: 0° ~ 30° Rotation: 0° ~ 360°

Video

Resolution	1080P (1920×1080)
Frame Rate	PAL:1920×1080@25fps, 1280×720@25/50fps; NTSC:1920×1080@30fps, 1280×720@30/60fps
Video Output	2-channel HDCVI high definition video output with aviation connector(Yellow:front camera/black:rear camera)
Day/Night	Front: Color / Rear: Electronic
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

Certifications

Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1) EN50155 (EN50121-3-2, IEC61373)

Interface

Audio Interface	1-channel built-in Mic (Audio outputs in both 2-channel HDCVI videos)
Aviation Connector Interface	1-power 2-video ground 3-power ground 4-video

Eelectrical

Power Supply	12V DC ±25%
Power Consumption	Max 2.4W (12V DC, IR on)

Environmental

Operating Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH * Start up should be done at above-40°C (-40°F)
Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH
Ingress Protection & Vandal Resistance	N/A

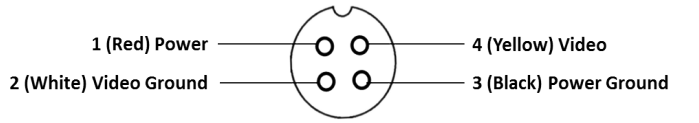
Construction

Casing	Plastic
Dimensions	115..8×99.5×50.2mm (4.56"×3.92"×1.98")
Weight	0.13kg (0.287lb)

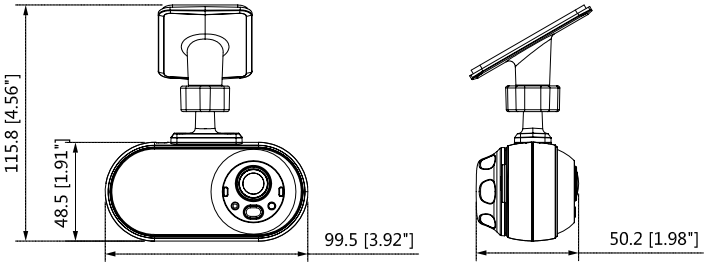
Ordering Information

Type	Part Number	Description
2MP Camera	DH-HAC-HMW3200LP-FR-0210B	2MP Double lens HDCVI Mobile IR Camera, PAL
	DH-HAC-HMW3200LN-FR-0210B	2MP Double lens HDCVI Mobile IR Camera, NTSC

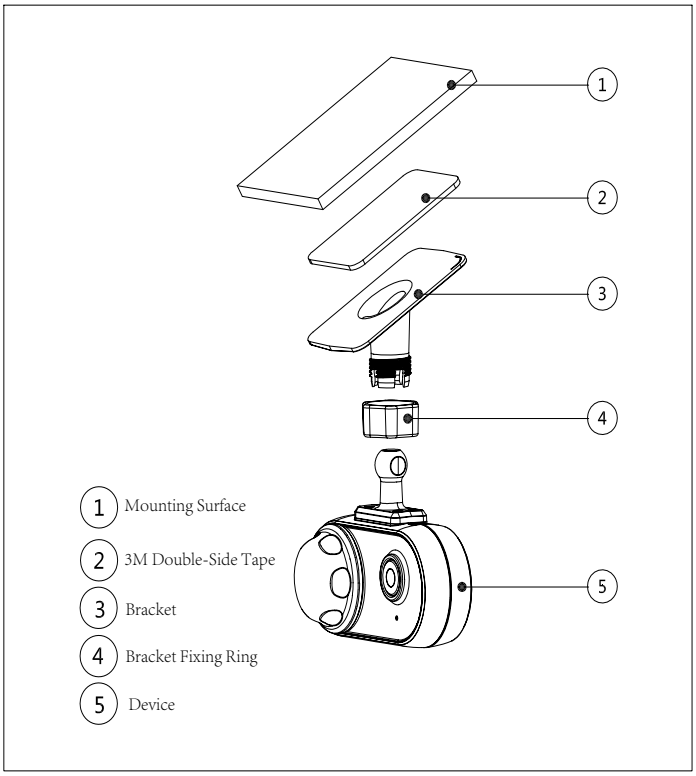
Aviation Connector



Dimensions (mm/inch)



Installation



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