Mobile | DH-HAC-HMW3200LN

2 MP HDCVI Fixed Eyeball Camera

2 MP Mobile HDCVI IR Camera

System Overview
Dahua Mobile Solutions offers a Full HD in real-time mobile video surveillance solution that provides reliable security via an analog infrastructure. The Mobile Solution camera is designed with a shock-proof and a compact case, providing an easy and discrete installation. The HDCVI technology ensures the camera operates reliably and delivers high-quality images in most mobile applications.

Functions

Design for Mobile Surveillance
The compact black housing and black front face blends in with most vehicle interiors and minimizes interference with other installed devices. The design also minimizes vibration and shock from normal driving situations. The compact design allows for quick and easy installation with 3M double-sided tape eliminating the need to damage assets with traditional installation methods.

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 power¹ to devices at the edge, simplifying installation.

Audio
The camera is designed with a built-in microphone for to pickup audio and transmit the signal over the aviation connector cable. Dahua’s HDCVI audio compression technology ensures synchronization of audio and video to provide complete visual and audible evidence to resolve incidents.

HDCVI

- 1/2.7-in Progressive-scan CMOS Sensor
- Maximum 1080p at 30 fps Resolution
- Aviation Connector for HDCVI Output
- HD and SD Video Output, switchable
- 2.1 mm Fixed Lens
- Built-in Microphone
- Maximum IR Distance 3 m (9 ft) with Smart IR
- Five-year Warranty*

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.

Smart IR
With IR illumination, detailed images can be captured in low light or total darkness. The camera’s Smart IR technology adjusts the intensity of camera’s infrared LEDs to compensate the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera. The camera’s integrated infrared illumination provides high performance in extreme low-light environments up to 3 m (9 ft).

Protection
With a working temperature range of −40 °C to +60 °C (−40 °F to +140 °F), the camera is designed for extreme temperature environments. Supporting ±25% input voltage tolerance, this camera suits even the most unstable power supply conditions.

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

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*Warranty applies to products sold through an authorized Dahua Dealer.
## 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 (30 IRE) 0 lux (with IR on)
- **S/N Ratio**: More than 65 dB
- **IR Distance**: Up to 3 m (9.84 ft)
- **IR On/Off Control**: Auto, Color, B/W
- **IR LEDs**: One (1)

### Lens

- **Lens Type**: Fixed Lens / Fixed Iris
- **Mount Type**: Board-in
- **Focal Length**: 2.1 mm
- **Max Aperture**: F2.0
- **Angle of View, Horizontal**: 139°
- **Close Focus Distance**: 400 mm (15.75 in.)

### DORI² Distance

<table>
<thead>
<tr>
<th>Detect (8 ppf)</th>
<th>Observe (19 ppf)</th>
<th>Recognize (38 ppf)</th>
<th>Identify (76 ppf)</th>
</tr>
</thead>
<tbody>
<tr>
<td>35.50 m (116.50 ft)</td>
<td>14.20 m (46.60 ft)</td>
<td>7.10 m (23.30 ft)</td>
<td>3.50 m (11.50 ft)</td>
</tr>
</tbody>
</table>

### Pan / Tilt / Rotation

- **Range**: Pan: 0° to 40°  Tilt: 0° to 55°  Rotation: 0° to 360°

### Video

- **Resolution**: 1080p (1920 x 1080)
- **Frame Rate**: 1080p at 30 fps  720p at 30/60 fps
- **Video Output**: One (1) BNC HDCVI High-definition Channel, M12 A-coded Aviation Connector
- **Video Transmission³**: RG-59/U Coax  720p: 800 m (2624.67 ft)  1080p: 500 m (1640.42 ft)
- **CAT 6 UTP (balun required)**  720p: 450 m (1476.38 ft)  1080p: 300 m (984.25 ft)
- **Day/Night**: Electronic
- **OSD Menu**: Multi-language
- **BLC Mode**: BLC, HLC, DWDR
- **WDR**: Digital WDR
- **Gain Control**: AGC
- **Noise Reduction**: 2D
- **White Balance**: Auto, Manual
- **Smart IR**: Auto, Manual

### Certifications

- **Safety**: EN55032, EN55024, EN50130-4  UL60950-1+CAN/CSA C22.2 No.60950-1
- **Electromagnetic Compatibility (EMC)**: FCC CFR 47 FCC Part 15 Subpart B  ANSI C63.4-2014
- **Railway Applications**: EN50155 (EN50121-3-2, IEC 61373)

### Interface

- **Audio**: Built-in Microphone
- **Aviation Connector**:
  - 1 Red: Power
  - 2 White: Video Ground
  - 3 Black: Power Ground
  - 4 Yellow: Video

### Electrical

- **Power Supply**: 12 VDC ±25%
- **Power Consumption**: Maximum 1.5 W (12 VDC with IR on)

### Environmental

- **Operating Conditions**: –40° C to +60° C (–40° F to +140° F), Less than 95% RH
- **Storage Conditions**: –40° C to +60° C (–40° F to +140° F), Less than 95% RH

### Construction

- **Casing**: Plastic
- **Dimensions**: 71.60 mm x 60.90 mm x 45.90 mm (2.82 in. x 2.40 in. x 1.80 in.)
- **Weight**: 0.085 kg (0.187 lb)

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2. The DOR 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

<table>
<thead>
<tr>
<th>Type</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 MP Camera</td>
<td>DH-HAC-HMW3200LN 2.1 mm</td>
<td>2 MP Mobile HDCVI IR Eyeball Camera, 2.1 mm</td>
</tr>
</tbody>
</table>

#### Aviation Connector

- 1 (Red) Power
- 2 (White) Video Ground
- 3 (Black) Power Ground
- 4 (Yellow) Video

#### Dimensions (mm/inch)

- **Height**: 78.1 [3.08"
- **Width**: 60.9 [2.4"
- **Depth**: 48.9 [1.91"
- **Height**: 82.8 [3.25"
- **Width**: 71.6 [2.82"

### Installation

#### 3M Double-sided Tape Mount Method:

1. Mounting Surface
2. 3M Double-sided Tape
3. HDCVI Camera
4. Expansion Bolt
5. Pedestal
6. Self-tapping Screw
7. Dome Body
8. Compression Cover
9. Cover Screw

#### Screw Mount Method:

1. Mounting Surface
2. Expansion Bolt
3. Pedestal
4. Self-tapping Screw
5. Dome Body
6. Compression Cover
7. Cover Screw