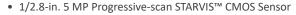


5MP HDCVI Fixed Bullet Camera

Starlight IR Camera

HDCVI



- 5 MP (2592 x 1944) at 20 fps Maximum Resolution
- 2.8 mm Fixed Lens
- Starlight Technology for Low-light Applications
- True Wide Dynamic Range (120 dB) and 2D/3D Noise Reduction
- Built-in Microphone
- HD or SD Output, Switchable
- Maximum IR Length 40 m (131 ft), Smart IR
- IP67 Ingress Protection
- Five-year Warranty*



















System Overview

Experience the superior clarity of Dahua's 5 MP HDCVI cameras for vast coverage and superior image details. The 5 MP HDCVI series leverages existing coax infrastructures to deliver forensic-level images seamlessly and over long distances. The camera uses a STARVIS™ sensor and next-generation ISP chip technology developed by Dahua to deliver stunning video. This home-grown ISP features the latest image processing algorithms and is optimized for surveillance camera operations. With total control of the ISP features and production, Dahua can offer the latest security systems at a cost-effective price.

Functions

Three Signals over One Coaxial Cable

HDCVI technology simultaneously transmits video, audio 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.

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing details in low-light applications. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

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.

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.

Broadcast-quality Audio

Audio information is used as supplementary evidence in video surveillance applications. This HDCVI camera transmits audio signals over the coaxial cable, eliminating the need for separate audio wiring. In addition, the camera uses unique audio processing and transmission technology that eliminates noise to best duplicate source audio, guaranteeing high-quality and highly effective audio information.

Multiple-format Support

The camera supports multiple video formats including, HDCVI, CVBS, AHD, and TVI. The camera can switch between these four formats via the OSD menu or the switch located on the video output cable, making the camera compatible with not only HDCVI DVRs but also most existing HD/SD DVRs.

True Wide Dynamic Range

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Advanced 3DNR

3DNR is noise reduction technology that detects and eliminates random noises by comparing two sequential frames. Dahua's advanced 3DNR technology delivers remarkable noise reduction with little impact to sharpness, especially under limited lighting condition. 3DNR, in addition, effectively decreases the bandwidth and saves storage space.

Protection

The camera is subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection rating making it suitable for demanding outdoor applications. The camera allows for ±30% input voltage tolerance, suitable for the most unstable conditions for outdoor applications, and its 4KV lightning rating provides effective protection for both the camera and its structure against lightning.

| Camera | | | | |
|-----------------------------|---------------------------|--|----------------------|--|
| Image Sensor | 1/2.8-in. S | TARVIS™ CMOS Sensor | | |
| Effective Pixels | 2592 (H) x | 1944 (V), 5 MP | | |
| Scanning System | Progressiv | Progressive | | |
| Electronic Shutter Speed | 1/3 s to 1/ | 1/3 s to 1/100,000 s | | |
| Minimum Illumination | Color: 0.00 0 lux with | 05 lux at F1.6, 30 IRE IR on | | |
| S/N Ratio | More than | n 65 dB | | |
| IR Distance | Up to 40.0 |) m (131.23 ft) | | |
| IR On/Off Control | Auto, Mar | nual | | |
| IR LEDs | Two (2) | | | |
| Lens | | | | |
| Lens Type | Fixed Lens | , Fixed Iris | | |
| Mount Type | Board-in | Board-in | | |
| Focal Length | 2.8 mm | 2.8 mm | | |
| Maximum Aperture | F1.6 | F1.6 | | |
| Angle of View | Horizontal | Horizontal: 98° | | |
| Close Focus Distance | 800 mm (3 | 800 mm (31.50 in.) | | |
| Installation Angle | | | | |
| Range | Tilt: 0° to 9 | Pan: 0° to 360° Tilt: 0° to 90° Rotation: 0° to 360° | | |
| DORI Distances ¹ | | | | |
| Detect (8 ppf) | Observe (19 ppf) | Recognize (38 ppf) | Identify (76 ppf) | |
| 56 m (184 ft) | 22 m (72 ft) | 11 m (36 ft) | 6 m (20 ft) | |
| , | , | , , | . , | |

| Detect | Observe | Recognize | Identify |
|----------|----------|-----------|----------|
| (8 ppf) | (19 ppf) | (38 ppf) | (76 ppf) |
| 56 m | 22 m | 11 m | 6 m |
| (184 ft) | (72 ft) | (36 ft) | (20 ft) |

Video

| Maximum Resolution | 5 MP (2592 x 1944) |
|--------------------|---|
| Frame Rate | 5 MP at 20 fps, 4 MP at 30 fps, 1080p at 30 fps |
| Video Output | One (1) BNC HDCVI High-definition Channel or, One (1) BNC CVBS Channel, switchable |

| | RG-59/U Coax | 720p: 800 m (2624.67 ft) 1080p: 500 m (1640.42 ft) 4 MP: 500 m (1640.42 ft) |
|------------------------------------|-------------------------------|--|
| Video Transmission ² | RG-6/U Coax | 720p: 1200 m (3937.01 ft) 1080p: 800 m (2624.67 ft) 4 MP: 700 m (2296.59 ft) |
| | CAT 6 UTP (balun required) | 720p: 450 m (1476.38 ft) 1080p: 300 m (984.25 ft) 4 MP: 300 m (984.25 ft) |
| Day/Night | | Auto (ICR), Manual |
| OSD Menu | | Multi-language |
| BLC Mode | | BLC, HLC, True WDR |
| WDR | | 120 dB |
| Gain Control | | AGC |
| Noise Reduction | | 2D, 3D |
| White Balance | | Auto, Manual |
| Smart IR | | Auto, Manual |

Certifications

| CE | EN55032 EN55024 EN50130-4 |
|-------------------------------------|--|
| Safety | UL60950-1 CAN/CSA C22.2 No.60950-1 |
| Electromagnetic Compatibility (EMC) | FCC CFR 47 Part 15 subpart B, ANSI C63.4-2014 |

Interface

| Audio ³ | Input: One (1) Channel, RCA Jack plus One (1) Built-in Microphone | |
|--------------------|---|--|
| | | |

Electrical

| Power Supply 12 VDC ± 30% | |
|---------------------------------------|-----------|
| Power Consumption Maximum 7 W (12 VDC | C, IR on) |

Environmental

| Operating Conditions | -40° C to +60° C (-40° F to +140° F) Less than 90% RH *Initiate start up above -40° C (-40° F) |
|----------------------|--|
| Storage Conditions | -40° C to +60° C (-40° F to +140° F) Less than 90% RH |
| Ingress Protection | IP67 |

Construction

| Casing | Aluminium |
|--------------|---|
| Dimensions | 179.90 mm x 70.0 mm x 70.0 mm (7.08 in. x 2.76 in. x 2.76 in.) |
| Net Weight | 0.42 kg (0.93 lb) |
| Gross Weight | 0.53 kg (1.17 lb) |

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.

 $[\]hbox{\it 2. 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.

3. The default audio input is via the built-in microphone; users must access the Advanced menu to switch the audio input to the cable option. The camera accepts audio from only one input source.

Pro Series | A52AB62

| Ordering Information | | | |
|-----------------------------|----------------|--|--|
| Туре | Part Number | Description | |
| 5 MP HDCVI Camera | A52AB62 | 5 MP Starlight HDCVI IR 2.8 mm Fixed Lens Bullet Camera, True WDR | |
| Accessories, optional | PFA121 | Junction Box | |
| | PFA151 | Corner Mount | |
| | PFA152-E | Pole Mount | |
| | DH-PFM320D-015 | 12 VDC, 2 A Power Adapter | |
| | DH-PFM321D-US | 12 VDC, 1 A Power Adapter | |
| | DH-PFM800-4K | 4K Passive HDCVI Balun | |
| Audio Accessories, optional | HAP100 | Pinhole Pickup | |
| | HAP200 | High-fidelity Pickup | |
| | | | |

Accessories

Optional:



PFA121 Waterproof Junction Box



DH-PFM320D-015 12 VDC, 2 A Power Adapter



HAP100 Pinhole Pickup



PFA152-E Pole Mount

PFA151

Corner Mount

DH-PFM800-4K

4K Passive HDCVI

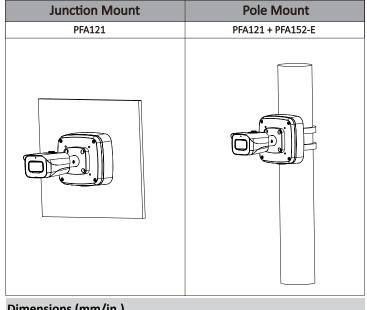
Balun



DH-PFM321D-US 12 VDC, 1 A Power Adapter



HAP200 High-fidelity Pickup



Dimensions (mm/in.)

