

4K HDCVI Fixed Bullet Camera

HDCVI

8 MP Starlight IR Bullet Camera



System Overview

Experience the superior clarity of Dahua's Ultra 4K HDCVI cameras for vast coverage and superior image details. Dahua Ultra 4K HDCVI series leverages existing coax infrastructures to deliver forensic-level images seamlessly and over long distances. The 4K HDCVI camera uses 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 down to 0.005 lux. 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.

- 1/1.8-in. 8 MP Progressive-scan CMOS Sensor
- 4K (3840 x 2160) at 15 fps Maximum Resolution
- 3.6 mm Fixed Lens
- Starlight Technology for Ultra Low-light Applications
- True Wide Dynamic Range (120 dB) and 2D/3D Noise Reduction
- HD or SD Output, Switchable
- Built-in Microphone
- Maximum IR Length 80 m (262 ft), Smart IR
- IP67 Ingress Protection
- Five-year Warranty*



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 allows for ±30% 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, and its IP67 ingress protection make it the choice for installation in even the most unforgiving environments.

Pro Series | A82AF53

Technical Specification Camera 1/1.8-in. CMOS Sensor Image Sensor **Effective Pixels** 3840 (H) x 2160 (V), 8 MP Scanning System Progressive 1/3 s to 1/100,000 s **Electronic Shutter Speed** Color: 0.005 Lux at F1.6, 30 IRE Minimum Illumination 0 Lux with IR on S/N Ratio More than 65 dB IR Distance Up to 80.0 m (262.47 ft) IR On/Off Control Auto, Manual IR LEDs Four (4) Lens Fixed Lens, Fixed Iris Lens Type Mount Type Board-in Focal Length 3.6 mm F1.6 Maximum Aperture Horizontal: 87° Angle of View 2500 mm (98.43 in.) **Close Focus Distance** Pan / Tilt / Rotation Pan: 0° to 360° Tilt: 0° to 90° Pan/Tilt/Rotation Rotation: 0° to 360° DORI Distances¹ Detect Observe Recognize Identify (8 ppf) (19 ppf) (38 ppf) (76 ppf) 104 m 42 m 21 m 10 m (138 ft) (341 ft) (69 ft) (33 ft) Video Maximum Resolution 8 MP (3840 x 2160) 8 MP at 15 fps, 6 MP at 20 fps, or HDCVI 4 MP at 30 fps 5 MP at 20 fps TVI 4 MP at 30 fps Frame Rate 5 MP at 20 fps AHD 4 MP at 30 fps CVBS 960H One (1) BNC HDCVI 4K Ultra High-definition Channel or, Video Output

| Video Transmission² | RG-59/U Coax | | 720p: 800 m (2624.67 ft) 1080p: 500 m (1640.42 ft) 4K: 500 m (1640.42 ft) | | | |
|--|-------------------------------|--|--|--|--|--|
| | RG-6/U Coax | | 720p: 1200 m (3937.01 ft) 1080p: 800 m (2624.67 ft) 4K: 700 m (2296.59 ft) | | | |
| | CAT 6 UTP (balun required) | | 720p: 450 m (1476.38 ft) 1080p: 300 m (984.25 ft) 4K: 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 | | Input: One (1) Channel, RCA Jack and Built-in Microphone | | | | |
| Electrical | | | | | | |
| Power Supply | | 12 VDC ± 30% | | | | |
| Power Consumption | | Maximum 11.3 W (12 VDC, IR on) | | | | |
| Environmental | | | | | | |
| Operating Conditions | | -30° C to +60° C (-22° F to +140° F) Less than 90% RH *Initiate start up above -30° C (-22° F) | | | | |
| Storage Conditions | | -30° C to +60° C (-22° F to +140° F) Less than 90% RH | | | | |
| Ingress Protection | | IP67 | | | | |
| Construction | | | | | | |
| Casing | | Aluminium | | | | |
| Dimensions | | | 244.10 mm x 90.40 mm x 90.40 mm (9.61 in. x 3.56 in. x 3.56 in.) | | | |
| Net Weight | | 0.42 kg (0.93 lb) | | | | |
| Gross Weight | | 0.53 kg (1.17 lb) | | | | |

1. 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.

One (1) BNC CVBS Channel, switchable

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.

Pro Series | A82AF53

| nation | | Junction Mount | Pole Mount |
|---------------|---|---|---|
| Part Number | Description | PFA130-E | PFA130-E + PFA152-E |
| A82AF53 | 4K Starlight HDCVI IR 3.6 mm Fixed Lens Bullet Camera, True WDR | | |
| PFA130-E | Junction Box (For use alone or with PFA152-E pole mount) | E 500 | |
| DH-PFA142 | Outdoor Surveillance Junction Box | | |
| PFA151 | Corner Mount (For use with PFA130-E junction box) | | |
| PFA152-E | Pole Mount (For use with PFA130-E junction box) | Corner Mount PFA130-E + PFA151 | |
| DH-PFA153 | Heavy-duty Pole Mount Bracket (For use with DH-PFA142 junction box) | | |
| DH-PFM320D-US | 12 VDC, 2 A Power Adapter | | |
| DH-PFM321D-US | 12 VDC, 1 A Power Adapter | | |
| HAP100 | Pinhole Pickup | | |
| HAP200 | High-fidelity Pickup | | |
| | A82AF53 PFA130-E DH-PFA142 PFA151 PFA152-E DH-PFA153 DH-PFM320D-US DH-PFM321D-US HAP100 | Part NumberDescriptionA82AF534K Starlight HDCVI IR 3.6 mm Fixed Lens Bullet Camera, True WDRPFA130-EJunction Box (For use alone or with PFA152-E pole mount)DH-PFA142Outdoor Surveillance Junction BoxPFA151Corner Mount (For use with PFA130-E junction box)PFA152-EPole Mount (For use with PFA130-E junction box)DH-PFA153Heavy-duty Pole Mount Bracket (For use with DH-PFA142 junction box)DH-PFM320D-US12 VDC, 2 A Power AdapterDH-PFM321D-US12 VDC, 1 A Power AdapterHAP100Pinhole Pickup | Part NumberDescriptionPFA130-EA82AF534K Starlight HDCVI IR 3.6 mm Fixed Lens Bullet Camera, True WDRImage: Comera and the second se |

Accessories

Optional:



PFA130-E Junction Box



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



HAP100 Pinhole Pickup



Pole Mount



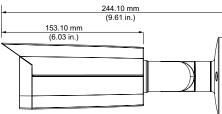
DH-PFM321D-US 12 VDC, 1 A Power Adapter



HAP200 High-fidelity Pickup



PFA151 Corner Mount



Dimensions (mm/in.)



