

# DH-HAC-HFW1200T-A

## 2MP IR HDCVI Fixed-focal Bullet Camera



### System Overview

The Lite Series is a great choice for consumers looking for high quality monitoring products at a reasonable price. Its low cost and high performance make it ideal for residential areas and SMB solutions. This series is equipped with a wide range of technologies, such as full-color and starlight, providing various solutions for different scenarios.

### Functions

#### Super Adapt

With its intelligent algorithm, the camera automatically adjusts its parameters to provide optimal performance and vivid images.

#### Broadcast-quality Audio

Audio signal transmission over coaxial cables is supported by the HDCVI camera. It adopts a unique audio processing and transmission technology that restores source audio and eliminates noise, ensuring the quality and reliability of the audio information that is collected. This becomes important for video surveillance applications that use audio information as a type of supplementary evidence.

#### Advanced 3DNR

Dahua's advanced 3DNR technology reduces image noise with little to no impact on image sharpness, especially in poor lighting conditions. It detects the noise, and compares the sequential frames to effectively reduce the noise. It also makes efficient use of bandwidth, saving on storage space.

#### Smart IR Illumination

With its IR illumination, the camera provides optimal performance in low light conditions, ensuring uniformity in the brightness of B/W images. Through its smart IR technology, the camera also compensates for the distance of targets by adjusting the intensity of its IR LEDs, preventing overexposure of images as targets move closer to the camera.

\* The parameters and datasheets below can only be applied to 1200-S6 series.

- Max. 30 fps@1080p.
- Smart IR Illumination.
- 30 m illumination distance.
- Super Adapt.
- Built-in Mic.
- 3.6 mm fixed lens (2.8mm optional).
- CVI/CVBS/AHD/TVI switchable.
- IP67, 12 VDC.



#### Protection (IP67, Wide Voltage)

IP67: The camera passed a series of rigorous dust and immersion tests. Its enclosure is both dust-proof and waterproof, and can function normally while being immersed in 1 m deep water for up to 30 minutes. Wide voltage: The camera has  $\pm 30\%$  input voltage tolerance (for some power supplies) and a wide voltage range, making it suitable for a variety of outdoor scenarios.

#### 4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals (video, audio\*, data and power) which are simultaneously transmitted over a coaxial cable. Dual-way data transmission allows the HDCVI camera to interact with the XVR to perform various actions such as sending control signals and triggering alarms. HDCVI technology also supports PoC, which makes the camera easy and quick to install.

\* Audio input is available for select HDCVI camera models.

#### Long Distance Transmission

HDCVI technology provides long distance transmission in real time without transmission loss. It supports transmission distances up to 700 m for 2-MP/5-MP/8-MP HD videos through coaxial cables, and up to 300 m through UTP cables. The results were obtained and verified through rigorous testing in Dahua's test laboratory.

| Technical Specification    |        |                                                                                                                                                                                                  |                   |                   |                  | Noise Reduction                                                                                                                           |  | 3D NR                                                    |  |
|----------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------|--|
| Camera                     |        |                                                                                                                                                                                                  |                   |                   |                  | Illumination Mode                                                                                                                         |  | Smart IR                                                 |  |
| Image Sensor               |        | 2 MP CMOS                                                                                                                                                                                        |                   |                   |                  | Mirror                                                                                                                                    |  | Yes                                                      |  |
| Max. Resolution            |        | 1920 (H) × 1080 (V)                                                                                                                                                                              |                   |                   |                  | Privacy Masking                                                                                                                           |  | Off/On (8 areas, rectangle)                              |  |
| Scanning System            |        | Progressive                                                                                                                                                                                      |                   |                   |                  | Certification                                                                                                                             |  |                                                          |  |
| Electronic Shutter Speed   |        | PAL: 1/25 s–1/100000 s<br>NTSC: 1/30 s–1/100000 s                                                                                                                                                |                   |                   |                  | Certifications                                                                                                                            |  |                                                          |  |
| Min. Illumination          |        | 0.01 lux@F2.0 (Color, 30 IRE)<br>0.001 lux@F2.0 (B/W, 30 IRE)<br>0 lux (Illuminator on)                                                                                                          |                   |                   |                  | CE-LVD: EN 62368-1;<br>CE-EMC: EN 55032; EN 55035;<br>FCC: 47 CFR FCC Part 15, Subpart B;<br>UL: UL62368-1 + CAN/CSA C22.2 No. 62368-1-14 |  |                                                          |  |
| S/N Ratio                  |        | >65 dB                                                                                                                                                                                           |                   |                   |                  | Port                                                                                                                                      |  |                                                          |  |
| Illumination Distance      |        | 30 m (98.43 ft)                                                                                                                                                                                  |                   |                   |                  | Video Output                                                                                                                              |  | Video output choices of CVI/TVI/AHD/CVBS by one BNC port |  |
| Illuminator On/Off Control |        | Auto                                                                                                                                                                                             |                   |                   |                  | Audio Input                                                                                                                               |  | One channel built-in Mic                                 |  |
| Illuminator Number         |        | 1 (IR light)                                                                                                                                                                                     |                   |                   |                  | Power                                                                                                                                     |  |                                                          |  |
| Angle Adjustment           |        | Pan: 0°–360°<br>Tilt: 0°–90°<br>Rotation: 0°–360°                                                                                                                                                |                   |                   |                  | Power Supply                                                                                                                              |  | 12 VDC ± 30%                                             |  |
|                            |        |                                                                                                                                                                                                  |                   |                   |                  | Power Consumption                                                                                                                         |  | Max 3.2 W (12 VDC, IR on)                                |  |
| Lens                       |        |                                                                                                                                                                                                  |                   |                   |                  | Environment                                                                                                                               |  |                                                          |  |
| Lens Type                  |        | Fixed-focal                                                                                                                                                                                      |                   |                   |                  | Operating Temperature                                                                                                                     |  | –40 °C to +60 °C (–40 °F to +140 °F)                     |  |
| Lens Mount                 |        | M12                                                                                                                                                                                              |                   |                   |                  | Operating Humidity                                                                                                                        |  | <95% (RH), non-condensing                                |  |
| Focal Length               |        | 2.8 mm; 3.6 mm                                                                                                                                                                                   |                   |                   |                  | Storage Temperature                                                                                                                       |  | –40 °C to +60 °C (–40 °F to +140 °F)                     |  |
| Max. Aperture              |        | F2.0                                                                                                                                                                                             |                   |                   |                  | Storage Humidity                                                                                                                          |  | <95% (RH), non-condensing                                |  |
| Field of View              |        | 2.8 mm: H: 102°; V: 60°; D: 129°<br>3.6 mm: H: 83°; V: 48°; D: 104°                                                                                                                              |                   |                   |                  | Protection                                                                                                                                |  | IP67                                                     |  |
| Iris Control               |        | Fixed                                                                                                                                                                                            |                   |                   |                  | Structure                                                                                                                                 |  |                                                          |  |
| Close Focus Distance       |        | 2.8 mm: 0.5 m (1.64 ft)<br>3.6 mm: 0.7 m (2.30 ft)                                                                                                                                               |                   |                   |                  | Casing Material                                                                                                                           |  | Metal                                                    |  |
| DORI Distance              | Lens   | Detect                                                                                                                                                                                           | Observe           | Recognize         | Identify         | Product Dimensions                                                                                                                        |  | 174.5 mm × 70.6 mm × 72.3 mm (6.87" × 2.78" × 2.85")     |  |
|                            | 2.8 mm | 41.4 m (135.83 ft)                                                                                                                                                                               | 16.5 m (42.13 ft) | 8.3 m ( 27.23 ft) | 4.1 m (13.45 ft) | Net Weight                                                                                                                                |  | 0.34 kg (0.75 lb)                                        |  |
|                            | 3.6 mm | 50.9 m (166.99 ft)                                                                                                                                                                               | 20.3 m (66.60 ft) | 10.2 m (33.46 ft) | 5.1 m (16.73 ft) | Gross Weight                                                                                                                              |  | 0.46 kg (1.01 lb)                                        |  |
| Video                      |        |                                                                                                                                                                                                  |                   |                   |                  | Installation                                                                                                                              |  | Wall mount; ceiling mount; vertical pole mount           |  |
| Video Frame Rate           |        | CVI:<br>PAL: 1080p@25 fps;<br>NTSC: 1080p@30 fps;<br>AHD:<br>PAL: 1080p@25 fps;<br>NTSC: 1080p@30 fps;<br>TVI:<br>PAL: 1080p@25 fps;<br>NTSC: 1080p@30 fps;<br>CVBS:<br>PAL: 960H;<br>NTSC: 960H |                   |                   |                  |                                                                                                                                           |  |                                                          |  |
| Resolution                 |        | 1080p (1920 × 1080); 960H (960 × 576/960 × 480)                                                                                                                                                  |                   |                   |                  |                                                                                                                                           |  |                                                          |  |
| Day/Night                  |        | Auto(ICR)/Color/B/W                                                                                                                                                                              |                   |                   |                  |                                                                                                                                           |  |                                                          |  |
| BLC                        |        | BLC; HLC; DWDR                                                                                                                                                                                   |                   |                   |                  |                                                                                                                                           |  |                                                          |  |
| WDR                        |        | DWDR                                                                                                                                                                                             |                   |                   |                  |                                                                                                                                           |  |                                                          |  |
| White Balance              |        | Auto; Area white balance                                                                                                                                                                         |                   |                   |                  |                                                                                                                                           |  |                                                          |  |
| Gain Control               |        | Auto                                                                                                                                                                                             |                   |                   |                  |                                                                                                                                           |  |                                                          |  |

| Ordering Information   |                    |                                              |
|------------------------|--------------------|----------------------------------------------|
| Type                   | Model              | Description                                  |
| 2MP Camera             | DH-HAC-HFW1200TP-A | 2MP IR HDCVI Fixed-focal Bullet Camera, PAL  |
|                        | DH-HAC-HFW1200TN-A | 2MP IR HDCVI Fixed-focal Bullet Camera, NTSC |
| Accessories (Optional) | PFA134             | Junction Box                                 |
|                        | PFA130-E           | Water-proof Junction Box                     |
|                        | PFA152-E           | Pole Mount Bracket                           |
|                        | PFM800-E           | 1 Channel Passive HDCVI Balun                |
|                        | PFM321D            | 12V 1A Power Adapter                         |
|                        | PFM904             | Integrated Mount Tester                      |

Accessories

Optional:



PFA134  
Junction  
Box



PFA130-E  
Water-proof Junction  
Box



PFA152-E  
Pole Mount  
Bracket



PFM800-E  
1 Channel Passive  
HDCVI Balun



PFM321D  
12V 1A Power  
Adapter



PFM904  
Integrated Mount  
Tester

