

DH-HAC-HUM1220A-PIR

2MP HDCVI MotionEye Camera

HDCVI



- Max 30fps@1080P
- HD and SD output switchable
- 2.8mm fixed lens
- 12m/100° detecting range/angle
- Two level detection sensitivity adjustable
- Built-in tamper switch
- DC12V



System Overview

This MotionEye model is an indoor PIR camera. It consists of a full HD pinhole HDCVI camera and a passive infrared sensor, allowing hidden video monitoring and the gathering of video evidence for intrusion alarms. When the passive infrared sensor is triggered, it transmits an alarm signal (along with video signal) to the XVR over coax. Built-in PIR and coax alarm output makes the camera an ideal choice for applications which require video verification of intrusion alarms, such as courtyards, offices, warehouses, stores, etc.

Functions

Covert Surveillance

The camera integrated in MotionEye adopts cone-shaped pinhole lens which is hidden in the PIR case. Therefore, the video monitoring can hardly be realized.

Wide Detection Range

Designed with Fresnel lens, the PIR of MotionEye is able to cover wide monitoring range with horizontal angle of view up to 100° within a distance from 1m to 12m.

Accurate Alarm

The detection accuracy is well guaranteed with dual sensor technology, which determines intrusion based on both temperature and displacement. It automatically filters false positives such as a pet. Moreover, the sensitive of the alarm is adjustable.

Long Distance Transmission

HDCVI technology guarantees real-time transmission at long distance without any loss. It supports up to 800m transmission via coaxial cable, and up to 300m via UTP cable*.

*Actual results verified by real-scene testing in Dahua's test laboratory.

Tamper-proof Design

The device is designed with a built-in tamper switch to prevent itself from malicious separated. Once the case is damaged and the tamper switch is triggered, alarm info will be uploaded immediately.

Protection

With working temperature range of -10 °C to +50 °C (14 °F to +122 °F), the camera is designed for various temperature environments. Supporting ±25% input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.

Technical Specification

Camera

| | |
|--------------------------|---|
| Image Sensor | 1/2.9" 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(Color), 0.002Lux/F2.0(B/W) |
| S/N Ratio | More than 65dB |

Lens

| | |
|----------------------|-------------------------|
| Lens Type | Fixed lens / Fixed iris |
| Mount Type | Board-in |
| Focal Length | 2.8mm |
| Max Aperture | F2.0 |
| Angle of View | H: 100.5° |
| Focus Control | N/A |
| Close Focus Distance | 500mm 19.7" |

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) | 44m(143ft) |
| Observe | 63px/m (19px/ft) | 17m(57ft) |
| Recognize | 125px/m (38px/ft) | 9m(29ft) |
| Identify | 250ppm (76px/ft) | 4m(14ft) |

Pan / Tilt / Rotation

| | |
|-------------------|--|
| Pan/Tilt/Rotation | Pan: 0° ~ 180° Tilt: 0° ~ 180° Rotation: 0° ~ 360° |
|-------------------|--|

Video

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|--------------|---|
| Resolution | 1080P (1920×1080) |
| Frame Rate | 25/30fps@1080P, 25/30/50/60fps@720P |
| Video Output | 1-channel BNC high definition video output / CVBS video output (Can switch) |
| Day/Night | Auto (Electronic) / Manual |
| OSD Menu | Multi-language |
| BLC Mode | BLC / HLC / DWDR |
| WDR | DWDR |

| | |
|-----------------|---------------|
| Gain Control | AGC |
| Noise Reduction | 2D |
| White Balance | Auto / Manual |

PIR

| | |
|---------------------|---------------------------------------|
| Detection | Passive infrared |
| Detection Range | 12mx12m, 100°, 19zones |
| Alarm prompt | Red led, can be set to switch off |
| Sensitivity | Two level (jumper) |
| Pet immunity | ≤18Kg |
| Resistance light | 6500LUX |
| Installation height | Default bracket, wall mount, 2.2-2.5m |

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) |
|----------------|---|

Interface

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|-----------------|-----|
| Audio Interface | N/A |
|-----------------|-----|

Eelectrical

| | |
|-------------------|--------------------------|
| Power Supply | 12V DC ±25% |
| Power Consumption | Max 0.7W (12V DC, IR on) |

Environmental

| | |
|--|---|
| Operating Conditions | -10°C ~ +50°C (14°F ~ +122°F) / Less than 90% RH * Start up should be done at above -10°C (14°F) |
| Storage Conditions | -10°C ~ +50°C (14°F ~ +122°F) / Less than 90% RH |
| Ingress Protection & Vandal Resistance | N/A |

Construction

| | |
|--------------|-------------------------------------|
| Casing | Plastic |
| Dimensions | 120mm×62mm×58mm (4.72"×2.44"×2.28") |
| Net Weight | 0.13kg (0.29lb) |
| Gross Weight | 0.18kg (0.40lb) |

Ordering Information

| Type | Part Number | Description |
|-------------|----------------------------|----------------------------------|
| 2MP Camera | DH-HAC-HUM1220AP-PIR 2.8mm | 2MP HDCVI MotionEye Camera, PAL |
| | DH-HAC-HUM1220AN-PIR 2.8mm | 2MP HDCVI MotionEye Camera, NTSC |
| Accessories | PFM800-E | Passive HDCVI Balun |
| | PFM800-4MP | Passive HDCVI Balun |
| | PFM801-4MP | Passive HDCVI Balun with Power |
| | PFM321 | 12V 1A Power Adapter |
| | PFM320D-015 | 12V 1.5A Power Adapter |

Accessories

Optional:



PFM800-E
Passive HDCVI Balun



PFM800-4MP
Passive HDCVI Balun



PFM801-4MP
Passive HDCVI Balun
With Power

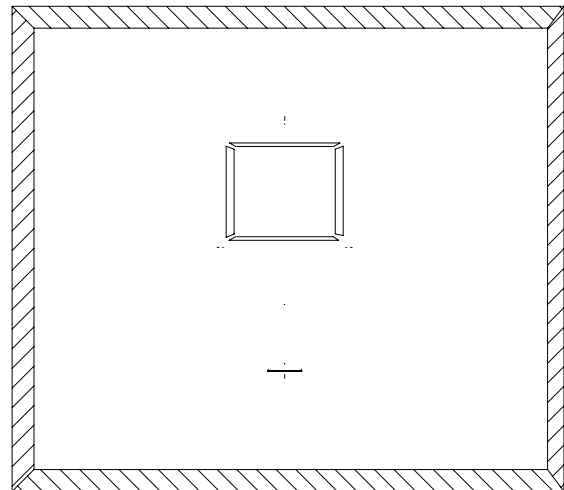


PFM321
12V 1A Power
Adapter



PFM320D-015
Power Adapter

Wall Mount



Dimensions (mm/inch)

