

# DH-HAC-ME1200B-PIR

## 2MP HDCVI MotionEye Camera



- Max 30fps@1080P
- HD and SD output switchable (video only)
- 2.8mm fixed lens
- 10m/110° detecting range/angle
- Quaternionic digital sensor
- Max. IR length 20m, Smart IR
- IP67, DC12V



### System Overview

This MotionEye model is an indoor/outdoor dual detection camera which uses both video and infrared sensor to achieve motion detection and PIR functionality, reducing false alarms and ensuring the accuracy and effectiveness of real-time alarm information. Built-in PIR and coaxial 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

#### 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 110° within a distance from 2m to 10m.

#### Dual Detection

The detection accuracy is well guaranteed with both motion detection and PIR detection, which can eliminate the number of false alarms you receive. With the advantage of dual detection technology, your HDD will now last longer and not be recorded with false alarms. Gone are the days of alarms caused by heavy wind or rain. Instead, only true threats will instantly trigger an alarm and allow you to protect your loved ones.

#### 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.

#### Multi-formats (Video Only)

The camera supports multiple video formats including HDCVI, CVBS and other two common HD analog formats in the market. The four formats can be switched over through by PFM820 (UTC controller). This feature makes the camera to be compatible with not only HCVRs but also most end users' existing HD/SD DVRs.

#### Smart IR

The camera is designed with array LED IR illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. Dahua's unique Smart IR adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object, and prevents IR LEDs from overexposing images as the object come closer to the camera.

#### Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67, making it suitable for indoor or outdoor environments.

With PIR working temperature range of -10 °C to +50 °C (+14 °F to +122 °F), the MotionEye is designed for extreme temperature environments. Supporting ±30% 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             | 1/2.7" CMOS                               |
| Effective Pixels         | 1920(H)×1080(V), 2MP                      |
| Scanning System          | Progressive                               |
| Electronic Shutter Speed | PAL: 1/4~1/100000s<br>NTSC: 1/3~1/100000s |
| Minimum Illumination     | 0.02Lux/F2.0(Color), 30IRE, 0Lux IR on    |
| S/N Ratio                | More than 65dB                            |
| IR Distance              | Up to 20m (66feet)                        |
| IR On/Off Control        | Auto / Manual                             |
| IR LEDs                  | 1   |

### Lens

|                      |                         |
|----------------------|-------------------------|
| Lens Type            | Fixed lens / Fixed iris |
| Mount Type           | Board-in                |
| Focal Length         | 2.8mm                   |
| Max Aperture         | F2.0                    |
| Angle of View        | H: 112°                 |
| Focus Control        | N/A                     |
| Close Focus Distance | 500mm<br>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<br>(8px/ft)   | 2.8mm: 40m(131ft) |
| Observe   | 63px/m<br>(19px/ft)  | 2.8mm: 16m(52ft)  |
| Recognize | 125px/m<br>(38px/ft) | 2.8mm: 8m(26ft)   |
| Identify  | 250ppm<br>(76px/ft)  | 2.8mm: 4m(13ft)   |

### Pan / Tilt / Rotation

|                   |   |
|-------------------|---|
| Pan/Tilt/Rotation | Pan: 0° ~ 360°<br>Tilt: 0° ~ 90°<br>Rotation: 0° ~ 360° |
|-------------------|---|

### Video

|              |   |
|--------------|---|
| 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 (ICR) / Manual   |

|                 |                  |
|-----------------|------------------|
| OSD Menu        | Multi-language   |
| BLC Mode        | BLC / HLC / DWDR |
| WDR             | DWDR             |
| Gain Control    | AGC              |
| Noise Reduction | 2D               |
| White Balance   | Auto / Manual    |
| Smart IR        | Auto / Manual    |

### PIR

|                     |                                       |
|---------------------|---------------------------------------|
| Detection           | Passive infrared                      |
| Detection Range     | 10m, 110°                             |
| Alarm prompt        | Red led                               |
| Installation height | Default bracket, wall mount, 2.2-2.5m |

### Certifications

|                |   |
|----------------|---|
| Certifications | CE (EN55032, EN55024, EN50130-4)<br>FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)<br>UL (UL60950-1+CAN/CSA C22.2 No.60950-1) |
|----------------|---|

### Interface

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

### Electrical

|                   |                          |
|-------------------|--------------------------|
| Power Supply      | 12V DC ±30%              |
| Power Consumption | Max 4.1W (12V DC, IR on) |

### Environmental

|  |  |
|--|--|
| Operating Conditions                   | -10°C ~ +50°C (+14°F ~ +122°F) / Less than 95% RH<br>* Start up should be done at above -10°C (14°F) |
| Storage Conditions                     | -10°C ~ +50°C (+14°F ~ +122°F) / Less than 95% RH  |
| Ingress Protection & Vandal Resistance | IP67   |

### Construction

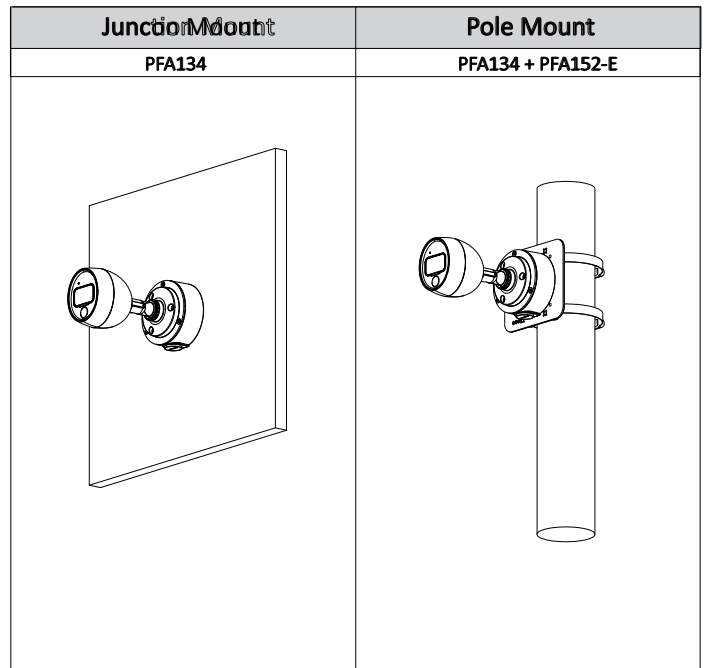
|              |   |
|--------------|---|
| Casing       | Aluminium (Front cover) + Plastic (Rear Barrel) |
| Dimensions   | 146.6mm×72.4mm×83mm (5.77"×2.85"×3.27")         |
| Net Weight   | 0.23kg (0.51lb)                                 |
| Gross Weight | 0.30kg (0.66lb)                                 |

**Ordering Information**

| Type        | Part Number               | Description  |
|-------------|---------------------------|--|
| 2MP Camera  | DH-HAC-ME1200BP-PIR 2.8mm | 2MP HDCVI MotionEye Camera, PAL                          |
|             | DH-HAC-ME1200BN-PIR 2.8mm | 2MP HDCVI MotionEye Camera, NTSC                         |
| Accessories | PFA134                    | Junction box (For use alone or with PFA152-E pole mount) |
|             | PFA152-E                  | Pole mount (For use with PFA134 junction box)            |
|             | 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:



**Dimensions (mm/inch)**

PFA134  
Junction box

PFA152-E  
Pole mount

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

