DH-HAC-ME2802B

4K HDCVI MotionEye Camera

- Max 15fps@4K
- HD and SD output switchable
- 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 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

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 long-distance and real-time transmission without any loss. It supports up to 700m for 4MP HD video via coaxial cable, and up to 300m via UTP cable*.

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

HD/SD Switchable(Video Only)

The camera supports switchable HDCVI high definition video output and CVBS standard definition video output. The two formats can be switched over through OSD menu. This feature makes the camera to be compatible with both HCVRs and existing analog DVRs and also facilitates debugging through analog testers

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" CMOS
Effective Pixels	3840(H)×2160(V), 8MP
Scanning System	Progressive
Electronic Shutter Speed	PAL: 1/4s~1/100,000s NTSC: 1/3s~1/100,000s
Minimum Illumination	0.005Lux/F1.6, 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	F1.6
Angle of View	H: 110.8°
Focus Control	N/A
Close Focus Distance	1800mm 70.87''

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)	84m(276ft)
Observe	63px/m (19px/ft)	34m(110ft)
Recognize	125px/m (38px/ft)	17m(55ft)
Identify	250ppm (76px/ft)	8m(28ft)

Pan / Tilt / Rotation

Pan/Tilt/Rotation	Pan: 0° ~ 360° Tilt: 0° ~ 90° Rotation: 0° ~ 360°

Video

Resolution	8MP (3840×2160)
Frame Rate	15fps@4K, 20fps@6MP, 30fps@4MP
Video Output	1-channel BNC high definition video output / CVBS video output (DIP switch)
Day/Night	Auto (ICR) / Manual
OSD Menu	Multi-language
BLC Mode	BLC / HLC / WDR
WDR	120dB
Gain Control	AGC
Noise Reduction	2D/3D
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) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)

Interface

Audio Interface	N/A

Eelectrical

Power Supply	12V DC ±30%
Power Consumption	Max 5.3W (12V DC, IR on)

Environmental

Operating Conditions	-10°C ~ +50°C (+14°F ~ +122°F) / Less than 95% RH * 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	0.25kg (0.55lb)
Gross Weight	0.33kg (0.73lb)

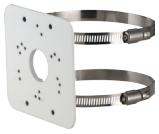
Ordering Information

Type	Part Number	Description
4K Camera	DH-HAC-ME2802BP 2.8mm	4K HDCVI MotionEye Camera, PAL
	DH-HAC-ME2802BN 2.8mm	4K 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
	PFM321	12V 1A Power Adapter
	PFM320D-015	12V 1.5A Power Adapter
	PFM320	12V 2A Power Adapter

Accessories

Optional:

PFA134
Junction box



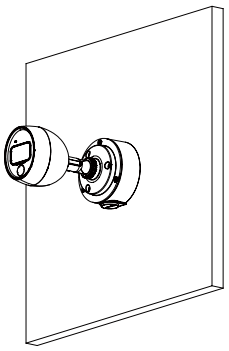
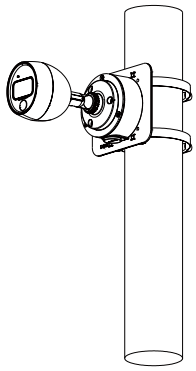
PFA152-E
Pole mount

PFM800-E
Passive HDCVI Balun

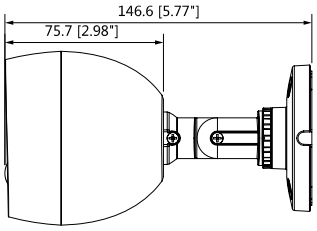
PFM321
12V 1A Power Adapter

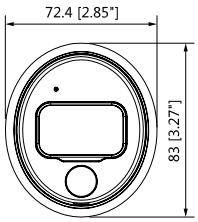
PFM320D-015
Power Adapter

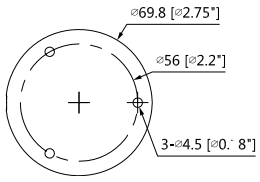
PFM320
12V 2A Power Adapter

Junction Mount	Pole Mount
PFA134	PFA134 + PFA152-E
	

Dimensions (mm/inch)







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