

2 MP HDCVI MotionEye Camera

2 MP HDCVI PIR Camera



HDCVI

- Maximum 1080p at 30 fps Resolution
- HD and SD Switchable Output
- 2.8 mm Fixed Lens
- 12 m x 12 m (39 ft x 39 ft) detection range, 100° detection angle
- Two-level detection with adjustable sensitivity
- Built-in Tamper Switch
- Five-year Warranty*







System Overview

The MotionEye camera is an indoor motion-detection video camera designed for applications that require motion detection and video verification of intrusion alarms. These compact cameras consist of a Full HD pinhole HDCVI camera and a passive infrared sensor. Once the PIR sensor detects motion, it sends the video and the alarm signal to a connected DVR over coax to preserve the video evidence.

Functions

Covert Surveillance

The MotionEye camera uses a conical pinhole lens hidden inside the PIR housing ensuring discreet video surveillance and monitoring.

Wide Detection Range

MotionEye cameras use a Fresnel lens to deliver a broad, wall-to-wall coverage area. The camera is capable of monitoring a horizontal angle of up to 100° at a distances between 1 m (3.28 ft) to 12 m (39.37 ft).

Accurate Alarm

The camera uses dual-sensor technology to process intrusion alarms based on temperature and sensor displacement. Both sensors are independent and must agree that an intrusion scenario exists before triggering an alarm. Dual-sensor technology automatically filters false positives from pets and other non-human moving objects. The camera allows fine-tuning for each sensor to achieve the level of detection appropriate for a specific application.

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.

Multi-format Support

The camera supports the HDCVI and the CVBS formats. The camera can switch between these formats via the a UTC controller (PFM820), making the camera compatible with not only HCVRs but also most existing HD/SD DVRs.

Tamper-proof Design

The device is designed with a built-in tamper switch that automatically triggers an alarm and sends a signal to the DVR.

Environmental

With a working temperature range of-10 °C to +50 °C (14 °F to +122 °F), the camera is designed for varied indoor environments. Supporting $\pm 25\%$ 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	n		
Camera			
Image Sensor	1/2.9-in. CMOS Sens	1/2.9-in. CMOS Sensor	
Effective Pixels	1920(H) x 1080(V), 2	1920(H) x 1080(V), 2 MP	
Scanning System	Progressive		
Electronic Shutter Speed	1/30 s to 1/100,000 s		
Minimum Illumination		Color: 0.02 Lux at F2.0 B/W: 0.002 Lux at F.20	
S/N Ratio	More than 65 dB	More than 65 dB	
Lens			
Lens Type	Fixed Lens / Fixed Iris	Fixed Lens / Fixed Iris	
Mount Type	Board-in	Board-in	
Focal Length	2.8 mm	2.8 mm	
Maximum Aperture	F2.0	F2.0	
Horizontal Angle of View	100.5°	100.5°	
Close Focus Distance	500 mm (1.97 in.)	500 mm (1.97 in.)	
Pan/Tilt/Rotation			
Range	Pan: 0° to 180° Tilt: 0° to 180° Rotation: 0° to 360°		
Video			
Resolution	1080p (1920 × 1080)		
Frame Rate	1080p @ 30 fps 720p @ 30/60 fps		
Video Output	High-definition Video	One (1) Channel, BNC High-definition Video Output or CVBS Standard Definition Video Output (switchable)	
	RG-59/U Coax	720p: 500 m (1640.42 ft) 1080p: 400 m (1312.34 ft)	
Video Transmission ¹	RG-6/U Coax	720p: 800 m (2624.67 ft) 1080p: 600 m (1968.50 ft)	
	CAT 6 UTP (balun required)	720p: 380 m (1246.72 ft) 1080p: 380 m (1246.72 ft)	
Day/Night	Auto (electronic), Ma	Auto (electronic), Manual	
OSD Menu	Multi-language	Multi-language	
BLC Mode	BLC, HLC, DWDR	BLC, HLC, DWDR	
WDR	Digital WDR	Digital WDR	
Gain Control	AGC	AGC	
Noise Reduction	2D	2D	
White Balance	Auto, Manual	Auto, Manual	

	PIR			
	Detection	Passive Infrared		
	Detection Range	12.0 m x 12.0 m (39.37 ft x 39.37 ft)		
	Alarm Prompt	Red LED, on or off		
	Sensitivity	Two-level (jumper)		
	Pet Immunity	≤ 18.0 kg (39.68 lb)		
	Resistance Light	6500 lux		
	Installation Height	Default bracket, wall mount: 2.20 m to 2.50 m (7.22 ft to 8.20 ft)		
	Certifications			
	Safety	EN55032, EN55024, EN50130-4 UL60950-1+CAN/CSA C22.2 No.60950-1		
	Electromagnetic Compatibility (EMC)	FCC CFR 47 FCC Part 15 Subpart B ANSI C63.4-2014		
	Electrical			
	Power Supply	12 VDC ± 25%		
	Power Consumption	Maximum 0.7 W (12 VDC, IR on)		
	Environmental			
	Operating Conditions	-10° C to +50° C (14° F to +122° F), Less than 90% RH Initiate startup above -10° C (14° F)		
	Storage Conditions	-10° C to +50° C (14° F to +122° F), Less than 90% RH		
	Construction			
	Casing	Plastic		
	Dimensions	119.7 mm x 61.7 mm x 58.1 mm (4.71 in. x 2.43 in. x 2.29 in.)		
	Net Weight	0.13 kg (0.29 lb)		

0.18 kg (0.40 lb)

Gross Weight

 $^{1. \} Transmission \ distance \ results \ verified \ by \ real-scene \ testing \ in \ Dahua's \ test \ laboratory. \ Actual \ transmission \ distances \ may \ vary \ due \ to \ external \ influences, \ cable \ quality, \ and \ wiring \ structures.$

Lite Series | DH-HUM1220AN-PIR

Ordering Information			
Туре	Part Number	Description	
2 MP Camera	DH-HAC-HUM1220AN-PIR	2 MP MotionEye PIR Camera, 2.8 mm	
Accessory, optional	PFM820	UTC Controller	
Accessories			

Optional:



PFM820 UTC Controller

Dimensions (mm/inch) 61.7 [2.43"] 58.1 [2.29"]

