PHE4ENN2-I/A
4MP Covert Pinhole Network Camera - Lens Unit

· 1/2.7" 4MP progressive scan CMOS
· Day/Night(Electronic), WDR
· 2.8mm Fixed Pinhole Lens
· 8-meter cable
· Requires a Main Box (Shown in Picture) to work properly

4Mp WDR Temperature

System Overview

This modular design covert camera consists of this independent miniature sensor unit (with 8-meters cable) that works in conjunction with a main unit IPCV-EL4MU (must be purchased together). It can be easily installed into any indoor environment making it an ideal camera for ATMs (Automatic Teller Machines), restaurants, stores, hotels and offices.

Pinhole Camera Specs

Technic Specifications

Camera

Image Sensor	1/2.7" 4Megapixel progressive scan CMOS
Scanning System	Progressive
Effective Pixels	2688(H)x1520(V)
Minimum Illumination	0.02Lux/F2.4 (Color,1/3s,30IRE) 0.08Lux/F2.4 (Color,1/30s,30IRE) 0.01Lux/F2.4 (B/W,1/3s,30IRE) 0.04Lux/F2.4 (B/W,1/30s,30IRE)
IR Distance	N/A
IR On/Off Control	N/A
IR LEDs	N/A

Lens

Lens Type	Fixed
Mount Type	Board-in
Focal Length	2.8mm
Max. Aperture	F2.4
Angle of View	H:83.4° ,V:44.9°
Optical Zoom	N/A
Focus Control	Fixed
Close Focus Distance	N/A

DORI Distance	Detect	Observe	Recognize	Identify
	61m(200ft)	24m(80ft)	12m(40ft)	6m(20ft)

Pan/Tilt/Rotation

Pan/Tilt/Rotation Range	N/A

Certifications

Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B

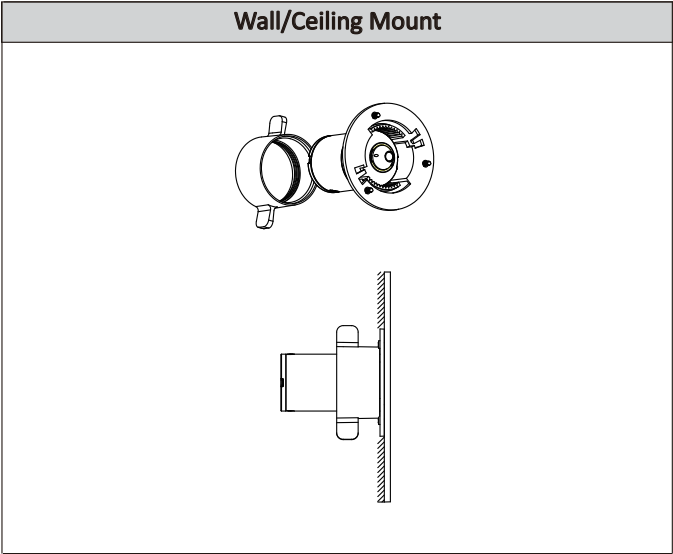#### Environmental

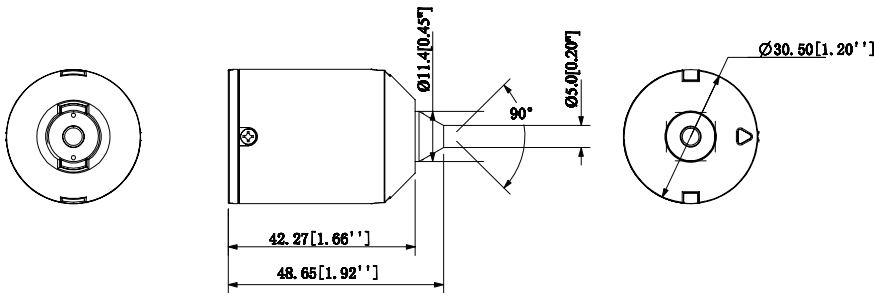|	
Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Strorage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Ingress Protection	N/A
Vandal Resistance	N/A

Construction

Casing	Metal
Dimensions	Φ30.5mm×48.65mm(Φ1.20"×1.91")
Net Weight	0.40Kg (0.88lb)
Gross Weight	0.47Kg (1.03lb)

Onvif PSIA

Pinhole Camera Accessories and Dimensions

Accessories

Wall/Ceiling Mount

Dimensions (mm/inch)

Ø11.4[0.45"]

Ø5.0[0.20"]

90°

Ø30.50[1.20'']

42.27[1.66'']

48.65[1.92'']

PHE4ENN2-I/A
4MP Covert Pinhole Network Camera-Main Box

· H.265&H.264 triple-stream encoding
· Support Smart H.265+/H.264+
· 25/30fps@4M(2688×1520)
· Day/Night(Electronic), WDR, 3DNR, AWB, AGC, BLC
· Smart detection
· Micro SD memory, PoE
· Multiple Lens type optional
· Require a Lens Unit to work together

System Overview

Dahua covert camera used modular design, this product provides an independent main unit, with multiple lens types for customers to choose separately. It can be easily installed into any indoor environments, which makes this camera ideal for the ATMs(Automatic Teller Machines), banks, stores, hotels and offices.

Functions

Intelligent Video System (IVS)

Dahua camera has a built-in video analysis based on intelligent algorithms and can achieve the following:Tripwire,Intrusion,Abandoned/ Missing can timely, quickly and accurately respond to monitoring events in specific area. It enhances monitoring efficiency. At the same time, the camera can support face detection,it can quickly capture a face and upload the image to the server. In addition the camera also supports intelligent tamper detection,through dramatic changes in the scene it will send out warning information to ensure effective monitoring.

Protection

Supporting ±30% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning.

HEVC (H.265)

H.265 ITU-T VCEG is a new video coding standard. It follows the standard developed around the existing H.264 video coding standard, retains the original technology while some of the new technology improves the relationship between the code stream, encoding quality, and the delay between algorithm complexity. The optimized settings specific content includes: Improved compression efficiency, improved robustness and error recovery capabilities, real-time processing to reduce the delay, reduced channel acquisition time, random access delay, reduce complexity, etc.

Smart H.265+

Deliver high quality video without straining the network, Smart H.265+ is the optimized implementation of H.265. The Smart H.265+ encoding technology includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, saving up to 70% of bandwidth and storage when compared with standard H.265.

Wide Dynamic Range (WDR)

Embedded with industry leading Wide Dynamic Range (WDR) technology, vivid picutures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Main Box Specs

Technical Specification

Camera

RAM/ROM	512MB/32MB
S/N Ratio	More than 50dB

Intelligence

IVS	Tripwire, Intrusion, Object Abandoned/Missing
Advanced Intelligent Functions	Face Detection

Video (working together with lens unit)

Compression	H.265+/H.265/H.264+/H.264
Streaming Capability	3 Streams
Resolution	4M(2688×1520) / 3M(2304x1296) / 1080P(1920×1080) / 1.3M(1280x960) / 720P(1280x720) / D1(704×576/704x480) / VGA(640x480) / CIF(352×288/342x240)
Frame Rate	Main Stream: 4M (1~25/30fps)
	Sub Stream: D1 (1 ~ 25/30fps)
	Third Stream: 720P (1~25/30fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 24Kbps~ 10240Kbps H.265: 14Kbps~ 9984Kbps
Day/Night	Electronic
BLC Mode	BLC / HLC / WDR(120dB)
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detetion	Off / On (4 Zones, Rectangle)
Region of Interest	Off / On (4 Zones)
Electronic Image Stabilization (EIS)	N/A
Smart IR	N/A
Defog	N/A
Digital Zoom	16x
Flip	0°/90°/180°/270°
Mirror	Off / On
Privacy Masking	Off / On (4 Areas, Rectangle)

Audio

Compression	G.711a/ G.711Mu/ AAC/ G.726

Network

Ethernet	RJ-45 (10/100Base-T)
Protocol	HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;SMTP;FTP; DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;NTP; Bonjour;802.1x;Multicast;ICMP;IGMP;SNMP
Interoperability	ONVIF, PSIA, CGI
Streaming Method	Unicast / Multicast
Max. User Access	10 Users/20 Users
Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	Smart PSS, DSS, Easy4ip
Smart Phone	IOS, Android

Certifications

Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B

Interface

Video Interface	N/A
Audio Interface	1/1 channel In/Out
RS232	1 port
Alarm	2 channel In: 5mA 5VDC 2 channel Out: 1A 30VDC / 0.5A 50VAC

Electrical

Power Supply	DC12V, PoE(802.3af)(Class 0)
Power Consumption	<6W (working together with lens unit)

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Strorage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Ingress Protection	N/A
Vandal Resistance	N/A

Construction

Casing	Metal
Dimensions	110.0mm×82.7mm×24.0mm (4.33"×3.26"×0.95")
Net Weight	0.21Kg (0.46lb)
Gross Weight	0.30Kg (0.66lb)

Main Box Dimensions

Dimensions (mm/inch)