

# DH-HAC-HDW1200M

2MP HDCVI IR Eyeball Camera

# HDCVI



- · Max 30fps@1080P
- · HD and SD output swtichable
- · 3.6mm fixed lens (6mm optional)
- · Max. IR length 30m, Smart IR
- · IP67, DC12V













### **System Overview**

Experience full HD 1080P/ HD 720P video with the simplicity of using existing cabling infrastructure. The Lite series features compact design and high quality image at friendly price. It offers various vari-focal/fixed lens models with multi-language OSD and HD/SD switchable output. The structure flexibility and best cost-performance makes lite series camera an ideal choice for SMB solutions.

## **Functions**

### 4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals to be transmitted over 1 coaxial cable simultaneously, i.e. video, audio\*, data and power. Dual-way data transmission allows the HDCVI camera to interact with the HCVR, such as sending control signal or triggering alarm. Moreover, HDCVI technology supports PoC for construction flexibility.

\* Audio input is available for some models of HDCVI cameras.

# Long Distance Transmission

HDCVI technology guarantees real-time transmission at long distance without any loss. It supports up to 800m(1080P)/1200m(720P) transmission via coaxial cable, and up to 300m(1080P)/450m(720P) via UTP cable.\*

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

# Simplicity

HDCVI technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. HDCVI system can seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach enables full HD video surveillance without the hassle of configuring a network.

### **Smart IR**

The camera is designed with microcrystalline 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.

#### Multi-formats

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 OSD menu or 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.

### Multi-language OSD

OSD menu provides multiple image adjustments and function settings to meet the requirements of different monitoring scenes. The OSD menu includes configurations such as backlight mode, day/night, white balance, privacy mask and motion detect. The camera supports 11 languages for OSD menu, namely, Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian and Polish.

### **Protection**

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67 ranking, making it suitable for indoor or outdoor environments. With working temperature range of-40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature 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.

# Lite Series | DH-HAC-HDW1200M

Table   Tabl	Technical Specification	1	Certifications	
Interface  Audio Interface  Relectrical  Power Supply  12V DC 1255  Eelectrical  Power Supply  12V DC 1255  Audio Interface  Power Consumption  Max 2.8W (12 Environmental  Audio More than 65dB  Re Distance  Up to 30m (98 (set))  Re Conformental  Operating Conditions  40°C ~ +60°  Storage Conditions  40°C ~ +60°  Ingress Protection & Vandal Resistance  Construction  Audio Interface  Eelectrical  Power Consumption  Max 2.8W (12 Environmental  Aux 2.8W (12 Environmental  Operating Conditions  40°C ~ +60°  Ingress Protection & Vandal Resistance  Construction  Casing Alarminum  Dimensions  Apartment  Aux Aperture  F2.0  Net Weight  0.28kg (0.62)  Aux Aperture  F2.0  Net Weight  0.28kg (0.62)  Aux Aperture  Part Of View  H: 89.9° (59.4°)  Gross Weight  0.38kg (0.77)  Aux Aperture  Part Of Tilt / Rotation  Part Of Tilt / Rotation  Aux Aperture  Part Of Tilt / Rotation  Aux Aperture  Part Of Tilt / Rotation  1080P (1920×1080)  Farame Rate  2.57/307se (1080P)  1channel BNC high definition video output / CVBS video output (can switch)  Apply Night  Auto (CRI) / Manual  Aux Children  Aux Children  Aux Of CRI / Manual  Aux Children  Aux	Camera	1/2 78 CMOS	Certifications	CE (EN55032, E FCC (CFR 47 FC
Audio Interface N/A  Idectronic Shutter Speed Rectrical  Pal: 1/25=1/1000005 NTSC: 1/30=1/1000005 NTSC: 1/30=1/10000005 NTSC: 1/30=1/10000005 NTSC: 1/30=1/100000000000000000000000000000000	_			01 (0100930-
Pale: 1/25=1/1000005			Interface	
NTSC: 1/30*1/1000005   Power Supply   12V DC ±258	canning System		Audio Interface	N/A
No.	lectronic Shutter Speed		Eelectrical	
R Distance  Up to 30m (98feet)  R On/Off Control  Auto / Manual  Deprating Conditions  -40°C° +60° -5tart up sh Storage Conditions  -40°C° +60° -60° -60° -60° -60° -60° -60° -60° -	Minimum Illumination	0.02Lux/F2.0, 0Lux IR on	Power Supply	12V DC ±25%
R On/Off Control  Auto / Manual  Auto / Manual  Auto / Manual  Auto / Manual  Storage Conditions  -40°C° +60° *Start up sh  Storage Conditions  -40°C° +60° *Start up sh  Storage Conditions  -40°C° +60° *Ingress Protection &Vandal Resistance  Construction  Casing  Aluminium  Dimensions  Ф3.4mmx7  Net Weight  0.28kg (0.62)  Gross Weight  0.35kg (0.77)  Aux Aperture  Pan: 0° ~ 360° Tilt: 0° ~ 90° Rotation: 0° ~ 360° Tilt: 0° ~ 90° Rota	s/N Ratio	More than 65dB	Power Consumption	Max 2.8W (12)
R Cn/Off Control Auto / Manual  Storage Conditions  * Start up sh  Ingress Protection & Vandal Resistance  Ingress Protection & Vandal Resistance  Construction  Casing Aluminium Dimensions Op3.4mmx7  Net Weight O.28kg (0.62)  Gross Weight O.35kg (0.77)  Pan / Tilt / Rotation  Pan / Tilt / Rotation  Pan (1920×1080)  Pan Book (1920×1080)  Pan Book (1920×1080)  Pan Rea 25/30fps@1080P, 25/30/50/60fps@720P  Inchannel BNC high definition video output / CVBS video Output  Multi-language  MUR Obde  BLC / HLC / DWDR  WDR  DWDR  AGC  Storage Conditions  * Start up sh  Storage Conditions  * Start up sh  Storage Conditions  * Storage Conditio	R Distance	Up to 30m (98feet)	Environmental	
Lens  lingress Protection & Vandal Resistance  Construction  Casing Aluminium  Casing Aluminium  Dimensions Op93.4mmx7  Net Weight 0.28kg (0.62)  Ingress Protection & Vandal Resistance  Construction  Casing Aluminium  Dimensions Op93.4mmx7  Net Weight 0.28kg (0.62)  Gross Weight 0.35kg (0.77)  Cous Control N/A  Close Focus Distance 600mm (1800mm)  23.62" (70.87")  Pan / Tilt / Rotation  Pan: 0" ~ 360"  Tilt: 0" ~ 90"  Rotation: 0" ~ 360"  Tilt: 0" ~ 90"  Rotation: 0" ~ 360"  Ingress Protection & Vandal Resistance  Construction  Casing Aluminium  Dimensions Op93.4mmx7  Net Weight 0.28kg (0.62)  Gross Weight 0.35kg (0.77)  Outs Control N/A  Close Focus Distance  Pan: 0" ~ 360"  Tilt: 0" ~ 90"  Rotation: 0" ~ 360"  Ingress Protection & Vandal Resistance  Construction  Leasing Aluminium  Dimensions Op93.4mmx7  Net Weight 0.35kg (0.77)  Outs Control N/A  Total Construction  Leasing Aluminium  Dimensions Op93.4mmx7  Net Weight 0.38kg (0.62)  Gross Weight 0.38kg (0.77)  Outs Control N/A  Auto (ICR) / Nanual  Dimensions Op93.4mmx7  Net Weight 0.38kg (0.62)  Forest Weight 0.38kg (0.77)  Total Construction  Leasing Aluminium  Dimensions Op93.4mmx7  Net Weight 0.38kg (0.62)  Forest Weight 0.38kg (0.77)  Outs Control Outs Outs Outs Outs Outs Outs Outs Outs	R On/Off Control	Auto / Manual	Operating Conditions	-40°C ~ +60°C * Start up sho
Resistance  Resistance  Por Adunt Type  Board-in  Casing  Aluminium  Dimensions  Dimension	R LEDs	12	Storage Conditions	-40°C ~ +60°C
Abount Type  Board-in  Casing  Aluminium  Casing  Aluminium  Dimensions  Dimen	.ens		_	IP67
Dimensions	ens Type	Fixed lens / Fixed iris	Construction	
Alax Aperture F2.0 Net Weight 0.28kg (0.62kg (	Mount Type	Board-in	Casing	Aluminium
Index weight 0.25kg (0.77)  Index weight 0.25kg (0.77)  Index weight 0.25kg (0.77)  Index weight 0.35kg (0.77)  In	ocal Length	3.6mm (6mm Optional)	Dimensions	Ф93.4mm×79
ocus Control  N/A  lose Focus Distance  600mm (1800mm) 23.62" (70.87")  Pan: 0* ~ 360* Tilt: 0* ~ 90* Rotation: 0* ~ 360*  Video  esolution  1080P (1920×1080)  rame Rate  25/30fps@1080P, 25/30/50/60fps@720P  lideo Output  1-channel BNC high definition video output / CVBS video output (Can switch)  Pay/Night  Auto (ICR) / Manual  Multi-language  LC Mode  BLC / HLC / DWDR  VDR  DWDR  DWDR  ain Control  AGC	lax Aperture	F2.0	Net Weight	0.28kg (0.62lb
lose Focus Distance  23.62" (70.87")  Pan: 0° ~ 360° Tilt: 0° ~ 90° Rotation: 0° ~ 360°  Video  esolution  1080P (1920×1080)  rame Rate  25/30fps@1080P, 25/30/50/60fps@720P  ideo Output  1-channel BNC high definition video output / CVBS video output (Can switch)  ay/Night  Auto (ICR) / Manual  ISD Menu  Multi-language  LC Mode  BLC / HLC / DWDR  DWDR  Jain Control  AGC	ngle of View	H: 89.9° (59.4°)	Gross Weight	0.35kg (0.77lb
ran / Tilt / Rotation  Pan: 0* ~ 360* Tilt: 0* ~ 90* Rotation: 0* ~ 360*  Video  esolution  1080P (1920×1080)  rame Rate  25/30fps@1080P, 25/30/50/60fps@720P  1-channel BNC high definition video output / CVBS video output (Can switch)  ray/Night  Auto (ICR) / Manual  Multi-language  LC Mode  BLC / HLC / DWDR  DWDR  Jain Control  AGC	ocus Control	N/A		
Pan: 0° ~ 360° Tilt: 0° ~ 90° Rotation: 0° ~ 360°  //ideo  //i	close Focus Distance			
An/Tilt/Rotation Tilt: 0° ~ 90° Rotation: 0° ~ 360°  /ideo  Resolution 1080P (1920×1080)  Frame Rate 25/30fps@1080P, 25/30/50/60fps@720P  /ideo Output 1-channel BNC high definition video output / CVBS video output (Can switch)  Day/Night Auto (ICR) / Manual  DSD Menu Multi-language  BLC / HLC / DWDR  DWDR  DWDR  AGC	Pan / Tilt / Rotation			
tesolution 1080P (1920×1080)  Frame Rate 25/30fps@1080P, 25/30/50/60fps@720P  Tideo Output 1-channel BNC high definition video output / CVBS video output (Can switch)  Day/Night Auto (ICR) / Manual  DSD Menu Multi-language  BLC Mode BLC / HLC / DWDR  DWDR DWDR  Gain Control AGC	Pan/Tilt/Rotation	Tilt: 0° ~ 90°		
25/30fps@1080P, 25/30/50/60fps@720P  1-channel BNC high definition video output / CVBS video output (Can switch)  Day/Night Auto (ICR) / Manual  DSD Menu Multi-language  BLC Mode BLC / HLC / DWDR  DWDR DWDR  Gain Control AGC	/ideo			
1-channel BNC high definition video output / CVBS video Output (Can switch)  Day/Night Auto (ICR) / Manual  DSD Menu Multi-language  BLC Mode BLC / HLC / DWDR  DWDR DWDR  Gain Control AGC	Resolution	1080P (1920×1080)		
video Output video output (Can switch)  Day/Night Auto (ICR) / Manual  DSD Menu Multi-language  BLC Mode BLC / HLC / DWDR  VDR DWDR  Gain Control AGC	rame Rate	25/30fps@1080P, 25/30/50/60fps@720P		
DSD Menu Multi-language BLC / HLC / DWDR  WDR DWDR  Gain Control AGC	/ideo Output			
BLC / HLC / DWDR  WDR  DWDR  Sain Control  AGC	Day/Night	Auto (ICR) / Manual		
VDR DWDR Sain Control AGC	OSD Menu	Multi-language		
Gain Control AGC	BLC Mode	BLC/HLC/DWDR		
	WDR	DWDR		
Noise Reduction 2D	Gain Control	AGC		
	Noise Reduction	2D		

Auto / Manual

Auto / Manual

White Balance

Smart IR

	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 ±25%		
	Power Consumption	Max 2.8W (12V DC, IR on)		
	Environmental			
	Operating Conditions	-40°C $^{\sim}$ +60°C (-40°F $^{\sim}$ +140°F) / Less than 90% RH * Start up should be done at above -40°C (-40°F)		
	Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH		
	Ingress Protection &Vandal Resistance	IP67		
	Construction			
	Casing	Aluminium		
	Dimensions	Ф93.4mm×79.4mm (Ф3.68"×3.13")		
	Net Weight	0.28kg (0.62lb)		

Ordering Information				
Туре	Part Number	Description		
	DH-HAC-HDW1200MP 3.6mm	2MP HDCVI IR Eyeball Camera,		
21.40.0	DH-HAC-HDW1200MP 6mm	PAL		
2MP Camera	DH-HAC-HDW1200MN 3.6mm	2MP HDCVI IR Eyeball Camera, NTSC		
	DH-HAC-HDW1200MN 6mm			
	PFA13A	Junction box (For use alone)		
Accessories	PFB204W	Wall mount (For use alone or with PFA152 pole mount)		
Accessories	PFA152	Pole mount (For use with PFB204W wall mount)		
	PFM820	UTC Controller		
Accessories				

# Dimensions (mm/inch) ø93.4 [ø3.68" ø68 [ø2.68"] 79.4 [3.13"] 4-@4.5 [@0.18"]

# Optional:





PFB204W

Wall mount



PFA13A

Junction box

PFA152 Pole mount



PFM820 **UTC** Controller

Junction Mount	Pole Mount
PFA13A	PFB204W + PFA152
Wall Mount	
PFB204W	

