

DH-HAC-HDBW1200E

2MP HDCVI IR Dome Camera

HDCVI



- · Max 30fps@1080P
- · HD and SD output swtichable
- · 3.6mm fixed lens (2.8mm, 6mm optional)
- · Max. IR length 30m, Smart IR
- · IP67, IK10, 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 IR LED 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.

The camera complies with IK10 impact resistant rating to provide maximum durability against vandals, making it capable of withstanding the equivalent of 55kg (120lbs) of force.

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

Lite Series | DH-HAC-HDBW1200E

Smart IR

Auto / Manual

Image Sensor 1/2.7" CMOS Effective Pixels 1920(H)×1080(V), 2MP Interface Audio Interface Audio Interface Audio Interface Electronic Shutter Speed PAL: 1/25-1/1000005 Minimum Illumination 0.02Lux/F2.0, 0Lux/R on Power Supply Power Supply Power Supply Power Consumption Environmental IR Distance Up to 30m (98feet) In R On/Off Control Auto / Manual IR CDS Lens Lens Lens Ingress Protection & Resistance Lens Type Fixed lens / Fixed iris Construction Casing Dimensions Max Aperture F2.0 Angle of View H: 89.9" (115.6"/59.4") Focus Control N/A Close Focus Distance 23.62" (19.69"/70.87") Pan / Tilt / Rotation Pan: 0" 355" Rotation: 0" ~ 355" Rotation: 0" ~ 355" 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 2-channel BNC high definition video output / CVBS video Output 1-channel BNC high definition video output / CVBS video Output 2-channel BNC high definition video output / CVBS video Output 1-channel BNC high definition video output / CVBS video Output 1-channel BNC high definition video output / CVBS video Output 1-channel BNC high definition video output / CVBS video Output 1-channel BNC high definition video output / CVBS video Output 1-channel BNC high definition video output / CVBS video Output 2-channel BNC high definition video output / CVBS video Output 3-channel BNC high definition video output / CVBS video Output 3-channel BNC high definition video output / CVBS video Output 3-channel BNC high definition video output / CVBS video Output 3-channel BNC high definition video output / CVBS video Output 3-channel BNC high definition video output / CVBS video Output 3-channel BNC high definition video output / CVBS video Output 3-channel BNC high definition video output / CVBS video Output 3-channel BNC high definition video output / CVBS video Output 3-channel BNC high definition video output / CVBS video Output 3-channe	Technical Specification		Certifications
Effective Pixels 1920(H)×1080(V), 2MP Audio Interface Scanning System Progressive Audio Interface Electronic Shutter Speed PAIL: 1/25-1/1000005 Minimum Illumination 0.02Lux/F2.0, 0Lux/R on Power Supply S/N Ratio More than 65dB Power Consumption IR Distance Up to 30m (98feet) Environmental Operating Conditions IR Con/Off Control Auto / Manual Operating Conditions IR LEDS 24 Storage Conditions Ingress Protection & Resistance Lens Type Fixed lens / Fixed iris Construction Mount Type Board in Casing Focal Length 3.6mm (2.8mm, 6mm Optional) Dimensions Max Aperture F2.0 Net Weight Angle of View H: 89.9" (115.6"/59.4") Gross Weight Focus Control N/A Close Focus Distance 600mm (500mm/1800mm) 23.62" (19.69"/70.87") Pan / Tilt / Rotation Pan: 0" - 355" Rotation: 0" - 355" 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 Gain Control AGC	Camera		Certifications
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Pal: 1/25-1/1000005 Eelectrical	Effective Pixels	1920(H)×1080(V), 2MP	Interface
Minimum Illumination O.02Lux/F2.0, 0Lux IR on Power Supply Power Consumption Environmental Operating Conditions IR Distance Up to 30m (98feet) IR On/Off Control Auto / Manual Operating Conditions Ingress Protection & Varesistance Lens Lens Lens Lens Lens Lens Fixed lens / Fixed iris Construction Mount Type Board-in Focal Length 3.6mm (2.8mm, 6mm Optional) Dimensions Max Aperture F2.0 Angle of View H: 89.9° (115.6°/59.4°) Focus Control N/A Close Focus Distance 600mm (500mm/1800mm) 23.62° (19.69°/70.87°) Pan/ Tilt / Rotation Pan: 0° ~ 355° Rotation: 0° ~ 355° Rotation: 0° ~ 355° Rotation: 0° ~ 355° Rotation: 0° ~ 355° Video Resolution 1080P (1920×1080) Frame Rate 25/30fps@1080P, 25/30/50/60fps@720P 1-channel BNC high definition video output / CVBS video output Multi-language BLC / HLC / DWDR WDR DWDR Gain Control AGC	Scanning System	Progressive	Audio Interface
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IR LEDs 24 Storage Conditions Ingress Protection &V Resistance Lens Type Fixed lens / Fixed iris Construction Mount Type Board-in Focal Length 3.6mm (2.8mm, 6mm Optional) Max Aperture F2.0 Net Weight Angle of View H: 89.9° (115.6°/59.4°) Focus Control N/A Close Focus Distance 600mm (500mm/1800mm) 23.62" (19.69°/70.87") Pan / Tilt / Rotation Pan/Tilt/Rotation Pan: 0° ~ 355° Rotation: 0° ~ 355° 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 Gain Control AGC	IR Distance	Up to 30m (98feet)	Environmental
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Lens Type Fixed lens / Fixed lins Board-in Casing Dimensions Max Aperture F2.0 Angle of View H: 89.9* (115.6*/59.4*) Focus Control Close Focus Distance Pan / Tilt / Rotation Pan/Tilt/Rotation Pan: 0* ~ 355* Rotation: 0* ~ 355* 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 Gain Control AGC	IR LEDs	24	Storage Conditions
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Angle of View H: 89.9* (115.6*/59.4*) Gross Weight Gross Weight Focus Control N/A Close Focus Distance Pan: 0° ~ 355° Tilt: 0° ~ 65° Rotation: 0° ~ 355° 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 Gain Control AGC	Focal Length	3.6mm (2.8mm, 6mm Optional)	Dimensions
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Pan / Tilt / Rotation Pan: 0° ~ 355° Tilt: 0° ~ 65° Rotation: 0° ~ 355° Video Resolution 1080P (1920×1080) Frame Rate 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 OSD Menu BLC Mode BLC / HLC / DWDR WDR Gain Control AGC	Focus Control	N/A	
Pan/Tilt/Rotation Pan: 0° ~ 355° Tilt: 0° ~ 65° Rotation: 0° ~ 355° 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	Close Focus Distance		
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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	Resolution	1080P (1920×1080)	
Video Output video output (Can switch) Day/Night Auto (ICR) / Manual OSD Menu Multi-language BLC Mode BLC / HLC / DWDR WDR DWDR Gain Control AGC	Frame Rate	25/30fps@1080P, 25/30/50/60fps@720P	
OSD Menu Multi-language BLC Mode BLC / HLC / DWDR WDR DWDR Gain Control AGC	Video Output		
BLC Mode BLC / HLC / DWDR WDR DWDR Gain Control AGC	Day/Night	Auto (ICR) / Manual	
WDR DWDR Gain 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	

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 & IK10
Construction	
Casing	Aluminium
Dimensions	Φ109.9mm×81.0mm(Φ4.33"×3.19")
Net Weight	0.31kg (0.68lb)

0.41kg (0.90lb)

Ordering Information				
Туре	Part Number	Description		
2MP Camera	DH-HAC-HDBW1200EP 2.8mm			
	DH-HAC-HDBW1200EP 3.6mm	2MP HDCVI IR Dome Camera, PAL		
	DH-HAC-HDBW1200EP 6mm			
	DH-HAC-HDBW1200EN 2.8mm	2MP HDCVI IR Dome Camera, NTSC		
	DH-HAC-HDBW1200EN 3.6mm			
	DH-HAC-HDBW1200EN 6mm			
Accessories	PFA136	Junction box (For use alone)		
	PFB203W	Wall mount (For use alone or with PFA152 pole mount)		
	PFA152	Pole mount (For use with PFB203W wall mount)		
	PFM820	UTC Controller		

Accessories

Optional:







PFB203W Wall mount



Dimensions (mm/inch)

81.0 [3.19"]

109.9 [4.33"]

PFA152 Pole mount



PFM820 UTC Controller

OTC CONTROLLER			
Junction Mount	Pole Mount		
PFA136	PFB203W + PFA152		
Wall Mount			
PFB203W			



Ø109.9 [Ø4.33"] Ø98.2 [Ø3.87"]

3-⊘4.7 [∅0.19"]