

OR-HAC-HDW2401EM

4MP HDCVI WDR IR Eyeball Camera

HDCVI



- · 120dB True WDR, 3DNR
- · Max 4MP real-time
- · HD and SD dual-output
- · 3.6mm fixed lens (2.8mm, 6mm optional)
- · Max. IR length 50m, Smart IR
- · IP67, DC12V













System Overview

Experience superior clarity of real-time 4Mega-pixel video with the simplicity of using existing coaxial infrastructure. The 4MP HDCVI camera presents high quality image with clear details and accurate color rendition, and supports 120dB true WDR for applications under complex dynamic range. It offers various motorized/fixed lens models with multi-language OSD and HD&SD dual-output. The higher resolution and complete features make the 4MP HDCVI camera an ideal choice for mid to large-size business and common projects where both highly reliable surveillance and construction flexibility are concerned.

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 700m transmission for 4MP HD video via coaxial cable, and up to 300m via UTP cable.*

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.

Multi-outputs

The camera supports HDCVI and CVBS signal outputs simultaneously with two BNC connectors. Multi-outputs facilitates construction in such situations as debugging through a tester. It also offers the possibility for cooperating with multiple devices including analog matrix or monitor.

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. ORing'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.

Wide Dynamic Range

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Advanced 3DNR

3DNR is noise reduction technology that detects and eliminates random noises by comparing two sequential frames. ORing's advanced 3DNR technology allows remarkable noise reduction with little impact to sharpness, especially under limited lighting condition. Besides, the advanced 3DNR effectively decreases the band width and saves the storage space.

Large Aperture Lens

The camera adopts high-end F1.5 large aperture lens. With higher amount of absorbed light, the camera presents an impressive lowlight performance.

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. Supporting ±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.

Pro Series | OR-HAC-HDW2401EM

Technical Specification Camera Image Sensor 1/3" CMOS Effective Pixels 2688(H)x1520(V), 4.1MP Scanning System Progressive Electronic Shutter Speed Progressive Electronic Shutter Speed Progressive Electronic Shutter Speed Progressive Electronic Shutter Speed Progressive Image Sensor Progressive Electronic Shutter Speed Progressive Electronic Shutter Speed Progressive In On/Off Control Prog		
Image Sensor 1/3" CMOS Effective Pixels 2688(H)x1520(V), 4:1MP Scanning System Progressive Electronic Shutter Speed PAL: 1/45~1/100,0005 Minimum Illumination 0.01Lux/F1.5, 0Lux IR on S/N Ratio More than 65dB IR Distance Up to S0m (164feet) IR On/Off Control Auto / Manual IR LEDs 1 Lens Lens Lens Type Fixed lens / Fixed iris Mount Type Board-in Focal Length 3.6mm (2.8mm, 6mm Optional) Max Aperture F1.5 Angle of View H: 79" (99.7"/48.6") Focus Control N/A Close Focus Distance 59.06" (35.43", 66.93") Pan / Tilt / Rotation Pan/Tilt/Rotation Pan: 0" ~ 360" Video Resolution 4MP (2560×1440) Frame Rate 25fps@4MP, 25/30fps@1080P, 25/30fps@720P Video Output 1-channel BNC HDCVI high definition video output 8.1-channel BNC CVBS video output 0.50 Menu Multi-language BLC Mode BLC / HLC / WDR WDR 120dB Gain Control AGC Noise Reduction 2D/3D White Balance Auto / Manual	Technical Specification	
Effective Pixels 2688(H)x1520(V), 4.1MP Scanning System Progressive Electronic Shutter Speed PAL: 1/4s~1/100,000s Minimum Illumination 0.01Lux/F1.5, 0Lux IR on S/N Ratio More than 65dB IR Distance Up to 50m (164feet) IR On/Off Control Auto / Manual IR LEDs 1 Lens Lens Lens Type Fixed lens / Fixed iris Mount Type Board-in Focal Length 3.6mm (2.8mm, 6mm Optional) Max Aperture F1.5 Angle of View H: 79* (99.7*/48.6*) Focus Control N/A Close Focus Distance 59.06" (35.43*", 66.93*") Pan / Tilt / Rotation Pan/Tilt/Rotation 4MP (2560×1440) Frame Rate 25fps@4MP, 25/30fps@1080P, 25/30fps@720P Video Output 1-channel BNC LYDE high definition video output & 1-channel BNC CVBS video output	Camera	
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Pan: 0° ~ 360° Tilt: 0° ~ 78° Rotation: 0° ~ 360° Video Resolution	Close Focus Distance	
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Noise Reduction Day/Night Auto (ICR) / Manual Auto (ICR) / Manual Multi-language BLC Mode BLC / HLC / WDR 120dB Gain Control AGC Noise Reduction Auto / Manual	Frame Rate	25fps@4MP, 25/30fps@1080P, 25/30fps@720P
OSD Menu Multi-language BLC Mode BLC / HLC / WDR WDR 120dB Gain Control AGC Noise Reduction 2D/3D White Balance Auto / Manual	Video Output	
BLC Mode BLC / HLC / WDR WDR 120dB Gain Control AGC Noise Reduction 2D/3D White Balance Auto / Manual	Day/Night	Auto (ICR) / Manual
WDR 120dB Gain Control AGC Noise Reduction 2D/3D White Balance Auto / Manual	OSD Menu	Multi-language
Gain Control AGC Noise Reduction 2D/3D White Balance Auto / Manual	BLC Mode	BLC / HLC / WDR
Noise Reduction 2D/3D White Balance Auto / Manual	WDR	120dB
White Balance Auto / Manual	Gain Control	AGC
	Noise Reduction	2D/3D
Smart IR Auto / Manual	White Balance	Auto / Manual
	Smart IR	Auto / Manual

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 5.3W (12V DC, IR on)	
Environmental		
Operating Conditions	-30°C $^{\sim}$ +60°C (-22°F $^{\sim}$ +140°F) / Less than 90% RH * Start up should be done at above -30°C (-22°F)	
Storage Conditions	-30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH	
Ingress Protection &Vandal Resistance	IP67	
Construction		
Casing	Aluminium	
Dimensions	Ф106mm×93.7mm (Ф4.17"×3.69")	
Net Weight	0.44kg (0.97lb)	
Gross Weight	0.58kg (1.28lb)	

Ordering Information				
Туре	Part Number	Description		
2. Di	DH-HAC-HDW2401EMP 2.8mm	4MP HDCVI WDR IR Eyeball Camera, PAL		
	DH-HAC-HDW2401EMP 3.6mm			
4MP Camera	DH-HAC-HDW2401EMP 6mm			
DH-HAC 2.8mm	DH-HAC-HDW2401EMN 2.8mm			
	DH-HAC-HDW2401EMN 3.6mm	4MP HDCVI WDR IR Eyeball Camera, NTSC		
	DH-HAC-HDW2401EMN 6mm			
Accessories PFA139 PFB204W PFA152	PFA139	Junction box (For use alone)		
	PFB204W	Wall mount (For use alone or with PFA152 pole mount)		
	PFA152	Pole mount (For use with PFB204W wall mount)		

Accessories

Optional:







PFA139 Junction box

PFB204W Wall mount

PFA152 Pole mount

Junction Mount	Pole Mount
PFA139	PFB204W + PFA152
Wall Mount	
PFB204W	

Dimensions (mm/inch)



