DH-HAC-HFW2221R-Z-IRE6-DP

2MP WDR HDCVI IR Bullet Camera

HDCVI



- · 120dB true WDR, 3DNR
- · Max 30fps@1080P
- · HD and SD dual-output
- · 2.7-12mm motorized lens
- · Max. IR length 60m, Smart IR
- · IP67, AC24V/DC12V













System Overview

Experience full HD 1080P video with the simplicity of using existing coaxial infrastructure. The camera features 120dB true WDR for applications under complex dynamic range and presents high quality image with clear details and accurate color rendition. It offers various motorized/fixed lens models with multi-language OSD and HD&SD dual-output. The outstanding performance and true WDR feature make the 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 long-distance and real-time transmission without any loss. It supports up to 800m for 1080P Full HD video via coaxial cable, and up to 300m via UTP cable.*

stActual 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.

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. Dahua'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.

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. 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.

Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67, making it suitable for indoor or outdoor 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.

Pro Series | DH-HAC-HFW2221R-Z-IRE6-DP

Gain Control

Noise Reduction

White Balance

Smart IR

AGC 2D/3D

Auto / Manual

Auto / Manual

Image Sensor 1/2.7" CMIOS Certifications FCC (CR 47 FCC Part 15 subpart), ANS (63 4-25 FC Four 15 FC FOUR 15 FC FOUR 15 FC FC FOUR 15 FC FOUR 15 FC FC FOUR 15 FC FC FOUR 15 FC	Technical Specification		Certifications	
Interface	Camera		Certifications	FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-201
Main Progressive Audio Interface N/A	Image Sensor	1/2.7" CMOS		UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Part 133°1/300005 Rictronic Shutter Speed PAL 133°1/300005 Nisc 1947/100005 Nisc 1947/10005 Nisc 1947/100005 Nisc 1947/10005 Nisc 1947/100005 Nisc 1947/10005	Effective Pixels	1928(H)×1088(V), 2.1MP	Interface	
NTSC: 1st 1,300,000	Scanning System	Progressive	Audio Interface	N/A
Power Consumption Max 15.2W (12V DC, IR on) Power Consumption Max 15.2W (12V DC, IR on) Environmental Operating Conditions -30°C* +60°C (-22°F* +140°F) / Less than 90% R + Start up should be done at above -30°C (+22°F) -140°F) / Less than 90% R -50°C* +60°C (-22°F* +140°F) / Less than 90% R -50°C* +60°C (-22°F* +140°F) / Less than 90% R -50°C* +60°C* (-22°F* +140°F) / Less than 90% R -50°C* (-22°F* +140°F) /	Electronic Shutter Speed	PAL: 1.3s~1/30000s NTSC: 1s~1/30000s	Eelectrical	
IR Distance Up to 60m (197feet) IR EDS Auto / Manual Operating Conditions Storage Conditi	Minimum Illumination	0.03Lux/F1.4, OLux IR on	Power Supply	AC 24V±25% / DC 12V±25%
Auto / Manual IR On/Off Control Auto / Manual Operating Conditions -30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% R * Start up should be done at above -30°C (-22°F) IR LEDS 4 Storage Conditions -30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% R Ingress Protection & Vandal Resistance Ingress Protection & Vandal Resistance Construction Casing Aluminium Dimensions 213.0mm×90.4mm (8.39°×3.56°×3.56° Net Weight 0.59kg (1.30lb) Angle of View H: 99°~37° Focus Control Auto / Manual Close Focus Distance 1181° Pan / Tilt / Rotation Pan/Tilt/Rotation Tilt: 0° ~ 82° Rotation: 0° ~ 360° Video Resolution 1080P (1920×1080) Frame Rate 25/30fps@1080P, 25/30/50/60fps@720P Video Output 1-channel BNC HDCVI high definition video output & 1-channel BNC HDCVI high definition video output & 1-channel BNC HDCVI bigh definition video output & 1-channel BNC HDCVI bigh definition video output & 1-channel BNC HDCVI My and and output & 1-channel BNC HDCVI My and output & 1-channel BNC HDCVI	S/N Ratio	More than 65dB	Power Consumption	Max 15.2W (12V DC, IR on)
IR On/Off Control Auto / Manual Operating Conditions * Start up should be done at above :30°C (:22°F) IR LEDS 4 Storage Conditions -30°C ~ +60°C (:22°F ~ +140°F) / Less than 90% R Ingress Protection & Wandal Resistance Construction Mount Type Board in Casing Aluminium Coasing Aluminium Dimensions 213.0mmx90.4mmx90.4mm (8.39°x3.56°x3.56° Max Aperture F1.4 Net Weight 0.59kg (1.30lb) Gross Weight 0.72kg (1.59lb) Focus Control Auto / Manual Close Focus Distance 11.81" Pan / Tilt / Rotation Pan(Tilt / Rotation) Pan(Tilt / Rotation: 0° ~ 360° Video Resolution 1080P (1920x1080) Frame Rate 25/30/fps@1080P, 25/30/50/60/fps@720P Video Output 1.channel BNC HDCVI high definition video output 8.1-channel BNC HDCVI high definition video output 8.1-channel BNC WDCVI high de	IR Distance	Up to 60m (197feet)	Environmental	
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Focal Length 2.7-12mm Dimensions 213.0mm×90.4mm×90.4mm (8.39*×3.56*×3.56* Net Weight 0.59kg (1.30lb) Angle of View H: 99°~37° Gross Weight 0.72kg (1.59lb) Focus Control Auto / Manual Close Focus Distance 300mm 11.81" Pan / Tilt / Rotation Fait of ~ 360° Tilt: 0° ~ 37° Rotation: 0° ~ 360° Video Resolution 1080P (1920×1080) Frame Rate 25/30fps@1080P, 25/30/50/60fps@720P Video Output 2channel BNC CVBS video output & 1-channel BNC CVBS vi	Lens Type	Motorized lens / Fixed iris	Construction	
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Angle of View H: 99°~37° Gross Weight 0.59kg (1.50lb) Gross Weight 0.72kg (1.59lb) Gross Weight 0.72kg (1.59lb) Focus Control Auto / Manual Close Focus Distance 300mm 11.81" Pan / Tilt / Rotation Pan: 0° ~ 360° Tilt: 0° ~ 87° Rotation: 0° ~ 360° Video Resolution 1080P (1920×1080) Frame Rate 25/30fps@1080P, 25/30/50/60fps@720P Video Output 1-channel BNC HDCVI high definition video output & 1-channel BNC CVBS video output Day/Night Auto (ICR) / Manual OSD Menu Multi-language BLC Mode BLC / HLC / WDR	Focal Length	2.7-12mm	Dimensions	213.0mm×90.4mm×90.4mm (8.39"×3.56"×3.56")
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Video Output 1-channel BNC HDCVI high definition video output & 1-channel BNC CVBS video output Day/Night Auto (ICR) / Manual OSD Menu Multi-language BLC / HLC / WDR	Resolution	1080P (1920×1080)		
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OSD Menu Multi-language BLC Mode BLC / HLC / WDR	Video Output			
BLC Mode BLC / HLC / WDR	Day/Night	Auto (ICR) / Manual		
	OSD Menu	Multi-language		
WDR 120dB	BLC Mode	BLC/HLC/WDR		
	WDR	120dB		

Ordering Information				
Туре	Part Number	Description		
2MP Camera	DH-HAC-HFW2221RP-Z- IRE6-DP	2MP WDR HDCVI IR Bullet Camera, PAL		
ZIVIP Calliela	DH-HAC-HFW2221RN-Z- IRE6-DP	2MP WDR HDCVI IR Bullet Camera, NTSC		
Accessories	PFA135	Junction box (For use alone or with PFA150 pole mount)		
Accessories	PFA150	Pole mount (For use with PFA135 junction box)		

Accessories

Optional:





PFA135 Junction box

PFA150 Pole mount

Junction Mount	Pole Mount
PFA135	PFA135 + PFA150

Dimensions (mm/inch)

