



WVI20174-DL-A

2MP HDCVI Dual Light Bullet Camera

- · Max. 30 fps@1080p.
- · 3D NR.
- · Smart Dual Light.
- · 20 m illumination distance.
- · Super Adapt.
- · Built-in mic.
- · 3.6 mm fixed lens (2.8 mm optional).
- · CVI/CVBS/AHD/TVI switchable.
- · IP67, 12 VDC.













System Overview

The Lite Series is a great choice for consumers looking for high quality monitoring products at a reasonable price. Its low cost and high performance make it ideal for residential areas and SMB solutions. This series is equipped with a wide range of technologies, such as full-color and starlight, providing various solutions for different scen

Function

Smart Dual Ligh

With its smart dual light mechanism, the camera automatically turns on the white light when Perimeter Protection/SMD Plus function of AI XVR detects a target in the rule area to capture clear, vivid images. When the target leaves the rule area, the camera automatically switches over from the white light to the IR light to significantly reduce light pollution

Broadcast-quality Audio

Audio signal transmission over coaxial cables is supported by the HDCVI camera. It adopts a unique audio processing and transmission technology that restores source audio and eliminates noise, ensuring the quality and reliability of the audio information that is collected. This becomes important for video surveillance applications that use audio information as a type of supplementary evidence

Super Adapt

With its intelligent algorithm, the camera automatically adjusts its parameters to provide optimal performance and vivid images.

Advanced 3DNR

WATASHI's advanced 3DNR technology reduces image noise with little to no impact on image sharpness, especially in poor lighting conditions. It detects the noise, and compares the sequential frames to effectively reduce the noise. It also makes efficient use of bandwidth, saving on storage space.

4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals (video, audio*, data and power) which are simultaneously transmitted over a coaxial cable. Dual-way data transmission allows the HDCVI camera to interact with the XVR to perform various actions such as sending control signals and triggering alarms. HDCVI technology also supports PoC, which makes the camera easy and guick to install.

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

Long Distance Transmission

HDCVI technology provides long distance transmission in real time without transmission loss. It supports transmission distances up to 700m for 2-MP/5-MP/8-MP HD videos through coaxial cables, and up to 300 m through UTP cables. The results were obtained and verified through rigorous testing in WATASHI's test laboratory.

Protection (IP67, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes. Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.





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2MP HDCVI Dual Light Bullet Camera

Technical Specification						
Camera						
Image Sensor		2 MP CMOS				
Max. Resolution		1920 (H) × 10	1920 (H) × 1080 (V)			
Scanning System		Progressive				
Electronic Shutter Speed		PAL: 1/25 s-1/100000 s NTSC: 1/30 s-1/100000 s				
Min. Illumination		0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)				
S/N Ratio		>65 dB				
Illumination Distance		IR: 20 m (65.62 ft) Warm light: 20 m (65.62 ft)				
Illuminator On/Off Control		Auto				
Illuminator Number		1 (Warm light);1 (IR light)				
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				
Lens						
Lens Type		Fixed-focal				
Auto Focus		No				
Lens Mount		M12				
Focal Length		2.8 mm; 3.6 mm				
Max. Aperture		F2.0				
Field of View		2.8 mm: H: 102°; V: 60°; D: 129° 3.6 mm: H: 83°; V: 48°; D: 105°				
Iris Control		Fixed				
Close Focus Distance		2.8 mm: 0.5 m (1.64 ft) 3.6mm: 0.7 m (2.30 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify	
	2.8 mm	41.1 m (135.83 ft)	16.5 m (42.13 ft)	8.3 m (27.23 ft)	4.1 m (13.45 ft)	
	3.6 mm	50.9 m (166.99 ft)	20.3 m (66.60 ft)	10.2 m (33.46 ft)	5.1 m (16.73 ft)	

	3.6 mm	(166.99 ft)	(66.60 ft)	(33.46 ft)	(16.73 ft)	
Video						
Video Frame Rate		CVI: PAL: 1080p@25 fps; NTSC: 1080p@30 fps; AHD: PAL: 1080p@25 fps; NTSC: 1080p@30 fps; TVI: PAL: 1080p@25 fps; NTSC: 1080p@30 fps; CVBS: PAL: 960H; NTSC: 960H				
Resolution		1080p (1920 × 1080); 960H (960 × 576/960 × 480)		50 × 480)		
Day/Night		Auto(ICR)/Color/B/W				
BLC		BLC; HLC; DWDR				
WDR		DWDR				

White Balance Gain Control Auto Noise Reduction 3D NR Illumination Mode Mirror Yes Privacy Masking Off/On (8 areas, rectangle) Certification Certifications CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035; FCC: 47 CFR FCC Part 15, Subpart B; UL: UL62368-1 + CAN/CSA C22.2 No. 62368-1-14 Port Video Output Video Output Noise Supply 1 channel Power Power Supply 12 VDC ± 30% Power Consumption Max 2.6W (12 VDC, IR on) Environment Operating Temperature -40 °C to +60 °C (-40 °F to +140 °F) Storage Temperature -40 °C to +60 °C (-40 °F to +140 °F) Storage Humidity -95% (RH), non-condensing Protection IP67		
Noise Reduction 3D NR Illumination Mode Smart IR&WL WL Mode; IR Mode Mirror Yes Privacy Masking Off/On (8 areas, rectangle) Certification Certification Certifications CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035; FCC: 47 CFR FCC Part 15, Subpart B; UL: UL62368-1 + CAN/CSA C22.2 No. 62368-1-14 Port Video Output Video output choices of CVI/TVI/AHD/CVBS by one BNC port Audio Input 1 channel Power Power Supply 12 VDC ± 30% Power Consumption Max 2.6W (12 VDC, IR on) Environment Operating Temperature -40 °C to +60 °C (-40 °F to +140 °F) Operating Humidity <95% (RH), non-condensing Storage Temperature -40 °C to +60 °C (-40 °F to +140 °F) Storage Humidity <95% (RH), non-condensing	White Balance	Auto;Area white balance
Illumination Mode Mirror Yes Privacy Masking Off/On (8 areas, rectangle) Certification CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035; FCC: 47 CFR FCC Part 15, Subpart B; UL: UL62368-1 + CAN/CSA C22.2 No. 62368-1-14 Port Video Output Video Output Video output choices of CVI/TVI/AHD/CVBS by one BNC port Audio Input 1 channel Power Power Supply 12 VDC ± 30% Power Consumption Max 2.6W (12 VDC, IR on) Environment Operating Temperature -40 °C to +60 °C (-40 °F to +140 °F) Operating Humidity <95% (RH), non-condensing Storage Temperature -40 °C to +60 °C (-40 °F to +140 °F) Storage Humidity <95% (RH), non-condensing	Gain Control	Auto
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Storage Temperature -40 °C to +60 °C (-40 °F to +140 °F) Storage Humidity <95% (RH), non-condensing	Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Humidity <95% (RH), non-condensing	Operating Humidity	<95% (RH), non-condensing
	Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Protection IP67	Storage Humidity	<95% (RH), non-condensing
	Protection	IP67

Structure

Casing Material	Metal
Product Dimensions	166.6 mm × 69.7 mm × 70 mm (6.56" × 2.74" × 2.76")
Net Weight	0.32 kg (0.71 lb)
Gross Weight	0.40 kg (0.88 lb)
Installation	Wall mount; ceiling mount; vertical pole mount

Dimensions (mm [inch])



