

# DH-HAC-HDBW2501RA-Z-A-POC

5MP Starlight HDCVI POC Motorized Vari-focal IR Dome Camera



# **System Overview**

The Pro Series contains a series of highly reliable and flexible cameras, making it a great choice for SMB solutions and projects. It has Starlight technology, up to 130 dB true WDR and 3DNR, and produces vivid images in rich detail even under difficult lighting conditions.

#### **Functions**

## 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 quick to install.

\* Audio input is available for select HDCVI camera models.

# Starlight

With its large image sensor and large aperture, the camera delivers high performance and quality, even in low-light conditions. The starlight feature allows the camera to capture highly detailed images in accurate color, recognizing targets even at night or in scenes with limited light.

# **Wide Dynamic Range**

With its advanced Wide Dynamic Range technology (WDR), the camera captures highly detailed images and produces high-definition recordings in high-contrast lighting conditions, and in scenes with backlighting or shadows.

# **Super Adapt**

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

- \* The parameters and datasheets below can only be applied to 2501-S2 series.
- \* In order to use the 5MP 16:9 HDCVI camera, the firmware of XVR must be upgraded to V4.001.0000001.0.R.200908 or later version.
- · Max 25 fps@5MP (16:9 video output).
- · Starlight, 120 dB true WDR, 3D NR.
- · Smart IR Illumination.
- · 60 m illumination distance.
- · Super Adapt.
- · Built-in MIC.
- · Auto focus, 2.7 mm–13.5 mm motorized lens.
- · CVI/CVBS/AHD/TVI switchable.
- · IP67, IK10, PoC (only CVI)/12 V±30% DC.













#### **Advanced 3DNR**

Dahua'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.

#### **Smart IR Illumination**

With its IR illumination, the camera provides optimal performance in low light conditions, ensuring uniformity in the brightness of B/W images. Through its smart IR technology, the camera also compensates for the distance of targets by adjusting the intensity of its IR LEDs, preventing overexposure of images as targets move closer to the camera.

# Protection (IP67, IK10, Wide Voltage)

IP67: The camera passed a series of rigorous dust and immersion tests. Its enclosure is both dust-proof and waterproof, and can function normally while being immersed in 1 m deep water for up to 30 minutes. IK10: The enclosure can withstand up to 5 punches from a 5 kg hammer falling from a height of 40 cm (impact energy is 20 J).

Wide voltage: The camera has  $\pm 30\%$  input voltage tolerance (for some power supplies) and a wide voltage range, making it suitable for a variety of outdoor scenarios.

BLC

WDR

White Balance

BLC; HLC; WDR; HLC-Pro

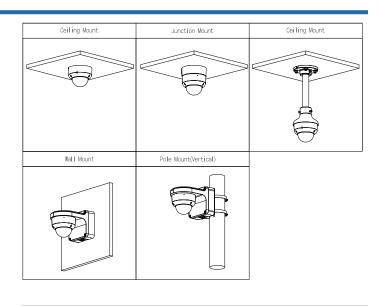
Auto; Area white balance

120 dB

Technical Specification							Gain Control	Auto/Manual
Camera							Noise Reduction	3D NR
Image Senso	r	5 MP CMOS				Illumination Mode	Smart IR	
Max. Resolution		2880 (H) × 1620 (V)					Defog	Electronic defog
Scanning System		Progressive					Digital Zoom	4×
Electronic Shutter Speed		PAL: 1/3 s–1/100000 s NTSC: 1/4 s–1/100000 s					Mirror	Yes
Min. Illumination		0.01 lux@F1.6 (Color, 30 IRE) 0.001 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)					Privacy Masking  Certification	Off/On (8 areas, rectangle)
S/N Ratio		>65 dB					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
Illumination Distance		60 m (196.85 ft)						
Illuminator O	n/Off Control	Auto/Manual					Port	
Illuminator Number		3 (IR light)					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one port
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–80° Rotation: 0°–355°					Audio Input	One channel built-in MIC
Lens		notation. 0 =533					Power	
Lens Type		Motorized Vari-focal					Power Supply	POC (only CVI)/12 VDC ± 30%
Auto Focus		Yes					Power Consumption	Max 7.6 W (12 VDC, IR on) PoC (AT)
Lens Mount		ф14					Environment	
Focal Length		2.7 mm–13.5 mm					Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)
Max. Apertur		F1.6					Operating Humidity	<95% (RH), non-condensing
Field of View		H: 113°-31.4°; V: 58°-17.6°; D: 138°-36°					Storage Temperature	-30 °C to +60 °C (-22 °F to +140 °F)
Iris Control		Fixed					Storage Humidity	<95% (RH), non-condensing
Close Focus Distance		0.8 m (2.62 ft)					Protection	IK10; IP67
	Lens	Detect	Observe	Recognize	Identify		Structure	
DORI Distance	W	64.0 m	25.6 m	12.8 m	6.4 m		Casing Material	Metal
		(209.97 ft) 210.0 m	(83.99 ft) 84.0 m	(41.99 ft) 42.0 m	(21.00 ft) 21.0 m		Product Dimensions	Φ126.0 mm × 100.0 mm (Φ4.96" × 3.94")
\ <i>C</i> . I	Т	(688.97 ft)	(275.59 ft)	(137.80 ft)	(68.89 ft)		Net Weight	0.66 kg (1.46 lb)
Video		CVI:					Gross Weight	0.83 kg (1.83 lb)
Video Frame Rate		PAL: 5M@25 fps; 4M@25 fps; NTSC: 5M@25 fps; 4M@30 fps; AHD: PAL: 4M@25 fps; NTSC: 4M@30 fps TVI: PAL: 4M@25 fps; NTSC: 4M@30 fps CVBS: PAL: 960H; NTSC: 960H					Installation	Wall mount; ceiling mount; vertical pole mount
Resolution		5M (2880 × 1620); 4M (2560 × 1440); 960H (960 × 576/960 × 480)						
Day/Night		Auto(ICR)/Color/B/W						
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# PoC Series | DH-HAC-HDBW2501RA-Z-A-POC

Ordering Information							
Туре	Model	Description					
5M Camera	DH-HAC-HDB- W2501RAP-Z-A-POC	5MP Starlight HDCVI POC Motorized Vari-focal IR Dome Camera, PAL					
SIVI Carriera	DH-HAC-HDB- W2501RAN-Z-A-POC	5MP Starlight HDCVI POC Motorized Vari-focal IR Dome Camera, NTSC					
	PFA197R	Junction Box					
	PFB206W	Wall Mount Bracket					
	PFA109	Mount Adapter					
Accessories	PFB220C	Ceiling Mount Bracket of Mini Dome & Eyeball Camera					
(Optional)	PFA156	Pole Mount Bracket					
	PFM800-4K	Passive HDCVI Balun					
	PFM321D	12V 1A Power Adapter					
	PFM904	Integrated Mount Tester					



# Dimensions (mm[inch])

# Accessories

# Optional:



PFA197R Junction Box



PFB220C Ceiling Mount Bracket of Mini Dome & Eyeball Camera



PFM321D 12V 1A Power Adapter



PFB206W Wall Mount Bracket



PFA156 Pole Mount Bracket

PFM904

Integrated Mount



PFA109 Mount Adapter



PFM800-4K 1-CH Passive Video Balun

