

CAM-1604

2MP Starlight HDCVI IR Eyeball Camera

HDCVI



- · Starlight
- · Max. 30fps@1080P
- · HD and SD output switchable
- · 2.8mm fixed lens
- · Max. IR length 30m, Smart IR
- · IP67, DC12V















System Overview

Experience 1080P full HD video and the simplicity of using existing cabling infrastructure with HDCVI. The 1080P starlight HDCVI camera presents a high quality image with rich details even under extreme low-light conditions. Also, the Lite series features compact design and friendly price. It offers various motorized vari-focal/fixed lens models with a multi-language OSD and HD/SD switchable output. Its structural flexibility and high cost-performance makes the 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 XVR, 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.

Starlight

With the adoption of high performance sensor, the camera is able to provide incomparable performance even under extreme lowlight environment. The starlight feature allows more details to be captured and accurate color to be recognized at night or in scenes with limited illumination.

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 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.

With working temperature range of-40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments.

Supporting ±30% 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.

Technical Specification				Video Output	1-channel BNC high definition video output / CVBS video output (Can switch)
Camera			Day/Night	Auto (ICR) / Manual	
Image Sensor	1/2.8" CMOS			OSD Menu	Multi-language
Effective Pixels	1920(H)×1080(V), 2MP			BLC Mode	BLC / HLC / DWDR
Scanning System	Progressive			WDR	DWDR
Electronic Shutter Speed	PAL: 1/25~1/100000s NTSC: 1/30~1/100000s			Gain Control	AGC
Minimum Illumination	0.005Lux/F1.6, 30IRE, 0Lux IR on			Noise Reduction	2D
S/N Ratio	More than 65dB			White Balance	Auto / Manual
IR Distance	Up to 30m (98feet)			Smart IR	Auto / Manual
IR On/Off Control	Auto / Manual			Certifications	
IR LEDs	12			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)
Lens				I., b.,	02 (0200330 170/H) c3/1022.2 No.00330 1/
Lens Type		Fixed lens / Fixed iris		Interface	
Mount Type	Board-in			Audio Interface	N/A
Focal Length	3.6mm (2.8mm, 6mm Op	3.6mm (2.8mm, 6mm Optional)		Eelectrical	
Max Aperture	F1.6			Power Supply	12V DC ±30%
Angle of View	H: 86.9° (106.0°/52.9°)			Power Consumption	Max 3.5W (12V DC, IR on)
Focus Control	N/A			Environmental	
Close Focus Distance	1200mm (600mm/2400mm) 47.2" (23.6"/94.5")			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)
DORI Distance				Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH
Note: The DORI distance is a "general proximity" of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.				Ingress Protection & Vandal Resistance	IP67
				Construction	
	DORI			Casing	Aluminium
	Definition	Distance		Dimensions	Ф93.4mm×79.4mm (Ф3.68"×3.13")
Detect	25px/m (8px/ft)	2.8mm: 39m(127ft) 3.6mm: 55m(181ft) 6mm: 83m(272ft)		Net Weight	0.27kg (0.60lb)
				Gross Weight	0.37kg (0.82lb)
Observe	63px/m (19px/ft)	2.8mm: 15m(51ft) 3.6mm: 22m(73ft) 6mm:33m(109ft)			
Recognize	125px/m (38px/ft)	2.8mm: 8m(25ft) 3.6mm: 11m(36ft) 6mm: 17m(54ft)			

Frame Rate	25/30fps@1080P, 25/30/50/60fps@720P

Pan: 0° ~ 360° Tilt: 0° ~ 90°

Rotation: 0° ~ 360°

1080P (1920×1080)

250ppm (76px/ft)

Identify

Video

Resolution

Pan / Tilt / Rotation

Pan/Tilt/Rotation

2.8mm: 4m(13ft)

3.6mm: 6m(18ft) 6mm: 8m(27ft)

Junction Mount

Pole Mount



Wall Mount PFB204W



Ø93.4 [Ø3.68"] Ø68 [Ø2.68"]

4-04.5 [00.18"]



Dimensions (mm/inch)

79.4 [3.13"]

Accessories

Optional:



PFA13A-E Junction box



PFB204W Wall mount



PFA152-E Pole mount



PFM800-E Passive HDCVI Balun



PFM800-4K Passive Video Balun



PFM800B-4K Passive Video Balun



PFM321 12V 1A Power Adapter



PFM320D-015 Power Adapter



PFM300 Power Adapter



PFM820 UTC Controller

