

HAC-D3A21-VF 2MP HDCVI IR Dome Camera



HDCVI

- Max 30fps@1080P
- \cdot HD and SD output switchable
- · 2.7-13.5mm vari-focal lens
- · Max. IR length 30m, Smart IR
- · IP67, IK10, DC12V



System Overview

Experience 1080P full HD video and the simplicity of using existing cabling infrastructure with HDCVI. The Lite series 1080P HDCVI camera features a compact design and offers a high quality image at a friendly price. It offers various 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 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 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.

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.

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 not only HCVRs but also 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.

The camera complies with IK10 impact resistant rating to provide maximum durability against vandals, making it capable of withstanding the equivalent of 55kg (120lbs) of force.

With working temperature range of -40 $^{\circ}$ C to +60 $^{\circ}$ C (-40 $^{\circ}$ F to +140 $^{\circ}$ F), the camera is designed for extreme temperature 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.

Lite Series | HAC-D3A21-VF

Technical Specification

Camera

Image SensorJ/2.7" CMOSEffective Pixels1920(H)×1080(V), 2MPScanning SystemProgressiveFlectronic Shutter SpeedPAL: 1/25~1/100000S NTSC: 1/30~1/100000SMinimum Illumination0.02Lux/F1.3, 30IRE, 0Lux IR onS/N RatioMore than 65dBIR DistanceUp to 30m (98feet)IR ChyfAuto / ManualIR LEDs2LensSard-inFocal LengthAir-focal lens / Fixed irisMount TypeBard-inAnge of ViewF1.3Focus ControlManualFocus ControlManualFocus ControlManualFocus DistanceSard-inFocus DistanceSard-inFocus ControlManualFocus ControlManualFocus DistanceSard-inFocus DistanceSard-inFocus DistanceSard-inFocus DistanceSard-inFocus DistanceManualFocus DistanceSard-inFormSard-inFocus DistanceSard-inFormSard-inFocus DistanceSard-inFormSard-inFocus DistanceSard-inFormSard-inFormSard-inFocus DistanceSard-inFormSard-inFormSard-inFormSard-inFormSard-inFormSard-inFormSard-inFormSard-inFormSard-inForm			
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FileFileElectronic Shutter SpeedPAL: 1/25~1/100000s NTSC: 1/30~1/100000sMinimum Illumination0.02Lux/F1.3, 30IRE, 0Lux IR onS/N RatioMore than 65dBIR DistanceUp to 30m (98feet)IR On/Off ControlAuto / ManualIR LEDs2LensLensKount TypeSoard-inFocal Length2.7-13.5mmMax ApertureF1.3Angle of ViewH1: 106°~30°Focus ControlManualClose Focus Distance200mm	Effective Pixels	1920(H)×1080(V), 2MP	
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Focal Length2.7-13.5mmMax ApertureF1.3Angle of ViewH: 106°~30°Focus ControlManualClose Eocus Distance200mm	Lens Type	Vari-focal lens / Fixed iris	
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Angle of View H: 106°~30° Focus Control Manual Close Focus Distance 200mm	Focal Length	2.7-13.5mm	
Focus Control Manual Close Focus Distance 200mm	Max Aperture	F1.3	
Close Focus Distance 200mm	Angle of View	H: 106°~30°	
Close Focus Distance	Focus Control	Manual	
	Close Focus Distance		

DORI Distance

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.

	DORI	Distance	
	Definition	Wide	Tele
Detect	25px/m (8px/ft)	45m(148ft)	148m(486ft)
Observe	63px/m (19px/ft)	18m(59ft)	59m(194ft)
Recognize	125px/m (38px/ft)	9m(30ft)	30m(97ft)
Identify	250px/m (76px/ft)	5m(15ft)	15m(49ft)

Pan / Tilt / Rotation

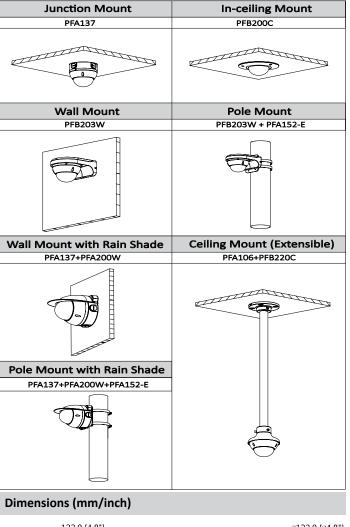
Pan/Tilt/Rotation	Pan: 0° ~ 355° Tilt: 0° ~ 75° Rotation: 0° ~ 355°
Video	
Resolution	1080P (1920×1080)
Frame Rate	25/30fps@1080P, 25/30/50/60fps@720P
Video Output	1-channel BNC high definition video output / CVBS video output (Can switch)
Day/Night	Auto (ICR) / Manual
OSD Menu	Multi-language

BLC Mode	BLC / HLC / DWDR
WDR	DWDR
Gain Control	AGC
Noise Reduction	2D
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 3.5W (12V DC, IR on)
Environmental	
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)
Storage Conditions	-40°C $^{\sim}$ +60°C (-40°F $^{\sim}$ +140°F) / Less than 90% RH
Ingress Protection & Vandal Resistance	IP67 & IK10
Construction	
Casing	Aluminium
Dimensions	Ф122mm×88.9mm (Ф4.8"×3.5")
Net Weight	0.40kg (0.88lb)
Gross Weight	0.55kg (1.21lb)

Lite Series | HAC-D3A21-VF

Ordering Information

Ture	Dant Number	Description
Туре	Part Number	Descrip⊠on
2MP Camera	DH-HAC-HDBW1200RP-VF	2MP HDCVI IR Dome Camera, PAL
Zivir Camera	DH-HAC-HDBW1200RN-VF	2MP HDCVI IR Dome Camera, NTSC
	PFA137	Junction box (For use alone)
	PFB200C	In-ceiling mount (For use alone)
Accessories	PFB203W	Wall mount (For use alone or with PFA152-E pole mount)
	PFA152-E	Pole mount (For use with PFB203W wall mount)
	PFA200W	Rain Shade (For use with PFA137 wall mount or with PFA137 wall mount and PFA152-E pole mount)
	PFA106	Adapter Plate(For use with PFB220C)
	PFB220C	Ceiling Mount Bracket of Mini Dome & Eyeball Camera
	PFM820	UTC Controller
	PFM800-E	Passive HDCVI Balun
	PFM800-4MP	Passive HDCVI Balun
	PFM801-4MP	Passive HDCVI Balun With Power
	PFM801-4MP	12V 1A Power Adapter
	PFM320D-015	12V 1.5A Power Adapter



Accessories Optional:



PFM800-E

PFM320D-015 Power Adapter

Rev 001.001



Junction box





PFA106 Adapter plate



PFM800-4MP Passive HDCVI Balun Passive HDCVI Balun



PFM321 Adapter

PFA152-E

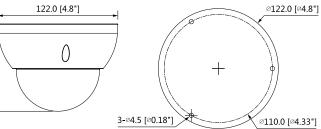
Pole mount



UTC Controller

88.9 [3.5"]

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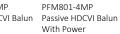




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PFB203W

PFB220C

bracket

Ceiling mount

Junction box

12V 1A Power