

WVI20182F

2MP Full-Color Starlight HDCVI Bullet Camera



System Overview

Experience 1080P full HD color video and the simplicity of reusing existing coaxial infrastructure with HDCVI. The full-color starlight HDCVI camera presents a high quality color image with rich details even in total darkness conditions. It offers various fixed lens models with a multi-language OSD and HD/SD switchable output. It adopts two powerful warm white LED illuminators, covering an effective range up to 40m(131.23ft). The LEDs switch on automatically in darkness to capture detail-packed full-color images 24/7, ensuring anthentic identificaiton of objects. It is an ideal choice for applications such as schools, retail centers and parking lots.

Functions

Full-color Starlight

The camera adopts F1.6 large aperture lens and 1/2.8" high performance sensor. With higher amount of absorbed light and advanced image processing algorithm, the camera presents an impressive lowlight performance with an exceptional balance between noise reduction and the blur of moving object.

Warm Supplemental lights

With two warm supplemental LED lights, the camera is able to provide a coloful and vivid image even in total darkness. It also provides visible By default, the camera is set to smart light mode, in which the camera can automatically adjust the exposure time and light sensitivity simultaneously to avoid overexposureing of the objects in the image center. Also, the sensitivity and intensity of the LED lights can be remotely controlled by OSD menu.

Broadcast-quality Audio

Audio information is used as supplementary evidence in video surveillance applications. The HDCVI camera supports audio signal transmission over coaxial cable. In addition, it adopts unique audio processing and transmission technology that best restores source audio and eliminates noise, guaranteeing the quality and effectiveness of collected audio information.



*Broadcast-quality audio is available for some models of HDCVI cameras

Full-color starlight
40m LED distance
Max. 30fps@1080P
CVI/CVBS/AHD/TVI Switchable
3.6mm fixed lens
IP67, 12V±30% DC



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

*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.

Multiple-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.

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.

Technical Specification

Camera

Max. Aperture Angle of View

Close Focus Distance

DORI Distance

Video Frame Rate

Resolution

BLC

WDR

White Balance

Gain Control

Noise Reduction

Video

Iris Type

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Image Sensor	1/2.8 inch 2.16 Mega Pixels CMOS
Effective Pixels	1920 (H)×1080 (V), 2MP
Electronic Shutter Speed	PAL:1/25s-1/100000s NTSC:1/30s-1/100000s
Minimum Illumination	0.005Lux/F1.6, 30IRE, 0Lux white Light on
Fill Light (White Light) Distance	Distance up to 40m (131.23ft)
Fill Light On/Off Control	Auto; Manual
Fill Light Number	2
Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–180° Rotation: 0°–360°
Lens	
Lens Type	Fixed-focal
Mount Type	M12
Focal Length	3.6mm

F1.6

Fixed iris

55.2m

(181.1ft)

CVI:

AHD:

TVI:

CVBS:

PAL: 960×576H; NTSC: 960×480H

576/704×480)

BLC/HLC/WDR

Auto; Manual

Auto; Manual

DWDR

2D NR

Yes

Yes

1.2m (3.94ft) Detect

103.6°x86.9°x46.3° (diagonalxhorizontalxvertical)

Observe

22.1m

(72.5ft)

PAL: 1080@25fps, 720@25fps, 720@50fps; NTSC: 1080@30fps, 720@30fps, 720@60fps

PAL: 1080@25fps,720@25fps,720@50fps; NTSC: 1080@30fps,720@30fps,720@60fps

1080P (1920×1080); 720P (1280×720); 960H (704×

PAL: 1080@25fps,720@25fps;

NTSC: 1080@30fps,720@30fps

Recognize

11.0m

(36.0ft)

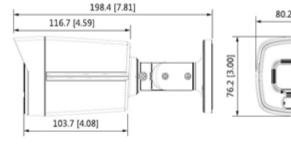
Identify

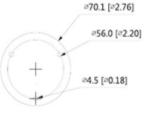
5.5m

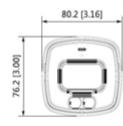
(18.0ft)

Digital Zoom	16X
Mirror	Off/On
Privacy Masking	Off/On (4 area, rectangle)
Certification	
Certifications	CE (EN55032, EN55024, EN50130-4,EN60950-1) 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
Port	
Video Port	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Power	
Power Supply	12V ±30% DC
Power Consumption	Max 4.2W (12V DC, white light on)
Environment	
Operating Temperature	-40°C to +60°C (-40°F to 140°F); <95% (non-condensation)
Storage Temperature	-40°C to +60°C (-40°F to 140°F); <95% (non-condensation)
Protection Grade	IP67
Structure	
Casing	Metal front cover+plastic main body+metal bracket
Dimensions	198.4mm×80.2mm×76.2mm (7.81"×3.16"×3.00")
Net Weight	0.3Kg(0.66lb)
Gross Weight	0.45Kg(0.99lb)

Dimensions (mm[inch])







DATA SHEET