

# HAC-D4100R-VF

4MP HD BNC IR Dome Camera



- Max 30fps@1080P
- 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. 1080P HD BNC 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

HD BNC 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 HD BNC camera to interact with the DVR, such as sending control signal or triggering alarm.

### Long Distance Transmission

HD BNC 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.

### Simplicity

HD BNC technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. HD BNC 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 microcrystalline LED IR illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. 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.

### HD/SD Switchable

The camera supports switchable HDCVI high definition video output and CVBS standard definition video output. The two formats can be switched over through OSD menu or by UTC controller. This feature makes the camera to be compatible with both HCVRs and existing analog DVRs and also facilitates debugging through analog testers.

### 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.

### 5x Optical Zoom

With the adoption of 2.7-13.5mm vari-focal lens, the camera allows 5X optical zoom, better adapting the requirements under various monitoring scenes. The camera is able to cover a wider angle of view range at the wide end and is suitable for monitoring the far-away objects at the tele end.

### Large Aperture Lens

The camera adopts F1.3 large aperture lens. With higher amount of absorbed light, the camera presents an impressive lowlight performance.

### 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 of force. With working temperature range of -40 °C to +60 °C, 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.

## Technical Specification

### Camera

Image Sensor	1/3" CMOS
Effective Pixels	2688(H)×1520(V), 4.1MP
Scanning System	Progressive
Electronic Shutter Speed	1/25~1/100000s
Minimum Illumination	0.03Lux/F1.3, 30IRE, 0Lux IR on
S/N Ratio	More than 65dB
IR Distance	Up to 30m
IR On/Off Control	Auto / Manual
IR LEDs	2

### Lens

Lens Type	Vari-focal lens / Fixed iris
Mount Type	Board-in
Focal Length	2.7-13.5mm
Max Aperture	F1.3
Angle of View	H: 98°~26°
Focus Control	Manual
Close Focus Distance	200mm

### Video

Resolution	4MP (2560×1440)
Frame Rate	25/30fps@4MP, 25/30fps@1080P, 25/30fps@720P
Video Output	1-channel BNC HDCVI 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)
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### Interface

Audio Interface	N/A
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### Electrical

Power Supply	12V DC ±25%
Power Consumption	Max 4.1W (12V DC, IR on)

### Environmental

Operating Conditions	-40°C ~ +60°C / Less than 90% RH * Start up should be done at above -40°C
Storage Conditions	-40°C ~ +60°C / Less than 90% RH
Ingress Protection & Vandal Resistance	IP67, IK10

### Construction

Casing	Aluminium
Dimensions	Φ 122mm×88.9mm
Net Weigh	0.39kg
Gross Weight	0.49kg