

# DH-HAC-HDW1220G-M

2MP Mobile HDCVI IR Eyeball Camera

# **HDCVI**



- · Max 30fps@1080P
- · HDCVI output (Aviation connector)
- · 3.6mm fixed lens (6mm optional)
- · Max. IR length 20m, Smart IR
- · IP67, DC12V
- · Shock-proof













## **System Overview**

Experience a 1080P full HD mobile video surveillance solution with the simplicity of analog infrastructure. The mobile camera is designed with a shock-proof, compact case, which makes it convenient to install and adaptable to various applications. It offers a high quality image as well as a multi-language OSD. In addition, the camera employs the strengths of HDCVI to ensure real-time transmission.

### **Functions**

### **Elaborate Design**

For better adapting the applications for vehicles, the mobile camera is designed with micro-sized compact case, which minimizes the interference against on-going activities. Taking aesthetics requirements into consideration, the body and front face of the camera is all-black.

## Shock-proof

Vibration is inevitable in mobile applications. In order to avoid image or connection failure, the hardware structure of the mobile camera is shockproof with the certification of EN50155. Plus, the mobile camera adopts M12 aviation connector for stable connection with MCVR.

### **Simplicity**

HDCVI technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. The plug and play approach enables full HD video surveillance without the hassle of configuring a network. HDCVI system can seamlessly upgrade the traditional analog system without replacing existing cabling.

# 4 Signals over 1 Coaxial Cable

HDCVI Mobile Camera supports 4 signals to be transmitted over 1 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.

st Audio input is available for some models of HDCVI cameras.

#### **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.

#### 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  $^{\circ}$ 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.

# Mobile Camera | DH-HAC-HDW1220G-M

<b>Technical Specification</b>	on			OSD Menu	Multi-languag
Camera				BLC Mode	BLC / HLC / DV
Image Sensor	1/2.9" CMOS			WDR	DWDR
Effective Pixels	1920(H)×1080(V), 2MF			Gain Control	AGC
Scanning System	Progressive			Noise Reduction	2D
Electronic Shutter Speed	PAL: 1/25~1/100000s NTSC: 1/30~1/100000s	5		White Balance	Auto / Manua
Minimum Illumination	0.02Lux/F2.0, 30IRE, 0	Lux IR on		Smart IR	Auto / Manua
S/N Ratio	More than 65dB			Certifications	
IR Distance	Up to 20m (66feet)				CE (EN55032,
IR On/Off Control	Auto / Manual			Certifications	FCC (CFR 47 F EN50155 (EN
IR LEDs	1	1		Interface	
Lens				Audio Interface	Built-in Mic
Lens Type	Fixed lens / Fixed iris			Addio Interruce	1-power
Mount Type	Board-in			Aviation Connector Interface	2-video groun 3-power grou
Focal Length	3.6mm (6mm Optional	)		Estadad	4-video
Max Aperture	F2.0			Eelectrical	
Angle of View	H: 82.8° (51.2°)			Power Supply	12V DC ±25%
Focus Control	N/A			Power Consumption	Max 2.9W (12
Close Focus Distance	800mm (1900mm)	800mm (1900mm)		Environmental	
31.50" (/4.80")			Operating Conditions	-40°C ~ +60°C * Start up sho	
DORI Distance			Storage Conditions	-40°C ~ +60°C	
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			Ingress Protection & Vandal Resistance	IP67	
criteria for Detect, Observe, Recognize and Identify respectively.				Construction	
	DORI Definition	Distance		Casing	Aluminium

	DORI Definition	Distance
Detect	25px/m (8px/ft)	3.6mm: 57m(187ft) 6mm: 86m(281ft)
Observe	63px/m (19px/ft)	3.6mm: 23m(75ft) 6mm:34m(113ft)
Recognize	125px/m (38px/ft)	3.6mm: 11m(37ft) 6mm: 17m(56ft)
Identify	250ppm (76py/ft)	3.6mm: 6m(19ft)

# Pan / Tilt / Rotation

Pan/Tilt/Rotation	Pan: 0° ~ 360° Tilt: 0° ~ 80°
	Rotation: 0° ~ 360°

## Video

Video	
Resolution	1080P (1920×1080)
Frame Rate	25/30fps@1080P, 25/30/50/60fps@720P
Video Output	1-channel BNC HDCVI high definition video output (Aviation connector)
Day/Night	Auto (ICR) / Manual

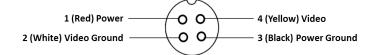
OSD Menu	Multi-language
BLC Mode	BLC / HLC / DWDR
WDR	DWDR
Gain Control	AGC
Noise Reduction	2D
White Balance	Auto / Manual
Smart IR	Auto / Manual
Certifications	
Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) EN50155 (EN50121-3-2, IEC61373)
Interface	
Audio Interface	Built-in Mic
Aviation Connector Interface	1-power 2-video ground 3-power ground 4-video
Eelectrical	
Power Supply	12V DC ±25%
Power Consumption	Max 2.9W (12V DC, IR on)
Environmental	
Operating Conditions	-40°C $^{\sim}$ +60°C (-40°F $^{\sim}$ +140°F) / Less than 95% RH * Start up should be done at above-40°C (-40°F)
Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 95% RH
Ingress Protection & Vandal Resistance	IP67
Construction	

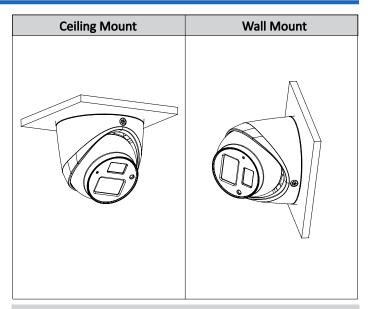
Casing	Aluminium
Dimensions	Φ62mm×62mm (Φ2.44"×2.44")
Net Weight	0.16kg (0.35lb)
Gross Weight	0.23kg (0.51lb)

# Mobile Camera | DH-HAC-HDW1220G-M

Ordering Information			
Туре	Part Number	Description	
2MP Camera	DH-HAC-HDW1220GP-M (3.6mm)	2MP Mobile HDCVI IR Eyeball	
	DH-HAC-HDW1220GP-M (6mm)	Camera, PAL	
	DH-HAC-HDW1220GN-M (3.6mm)	2MP Mobile HDCVI IR Eyeball	
	DH-HAC-HDW1220GN-M (6mm)	Camera, NTSC	

# **Aviation Connector**





# Dimensions (mm/inch)

