

# 2MP 4-in-1 IR Eyeball Camera with 2.8mm Lens

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GEB | GEBG



User Manual

Please read these instructions carefully before operating the unit  
and keep for further reference.

genie

### **CAUTION:**

- To reduce the risk of electric shock, do not open the camera, please consult a professional or contact your distributor.
- To prevent fire or shock hazards, the power, input voltage, current, voltage polarity and operating temperature of this camera must meet the requirements stated.
- Please note the operating temperature and environmental requirements of the camera and avoid too low or too high temperatures. General operating temperature range of -10°C+50°C (Fahrenheit temperature is 14°F~122°F). Avoid anywhere where there is flooding, rain, dust and moisture erosion that will cause the camera to be damaged.
- When installing the camera, you should avoid direct sunlight and glare which can cause damage to the sensor.
- Do not touch the sensors surface, if you see any marks or small particles use a cotton swab or lens paper to wipe away. If it is difficult to remove, a neutral detergent diluted with water would be useful. Do not use any solutions that are corrosive.
- In order to make the camera work smoothly and obtain a satisfactory image, the power cord and video connection can not be too long, otherwise this will increase line loss which will lead to the inadequate magnitude of the operating voltage or video signal of the camera.
- In order to prevent the camera from falling, please do not place the camera on an unstable bracket, base or other objects. It will lead to the camera being damaged, at the same time, a possible injury.
- The camera cannot be placed near a radiator or any heat resistor.

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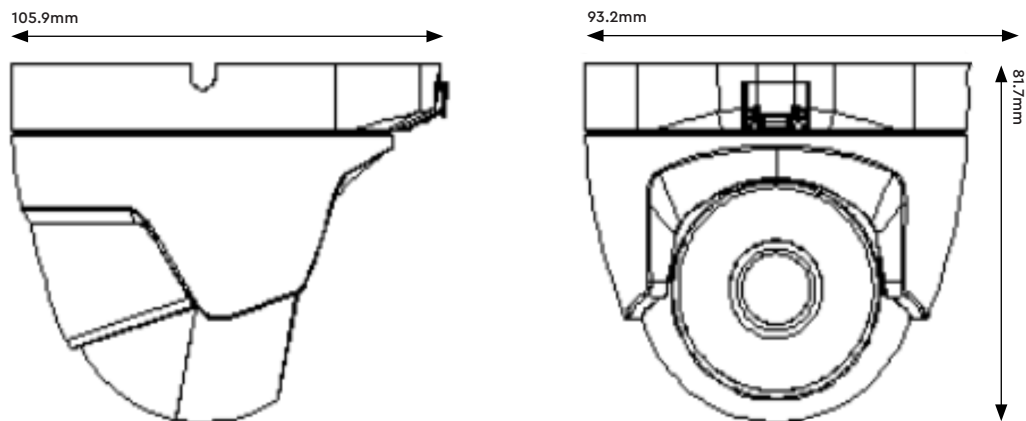
## 1.0 Introduction

The Genie GEB is a high definition discreet eyeball design camera with the latest 4-in-1 AHD, TVI, CVI and CVBS technologies (fully selectable). The camera utilises a 2.8mm fixed lens and with a 2MP 1080p resolution, providing a superb quality image suitable for most general applications both indoors and outdoors. The camera OSD menu enables many options to be chosen including different languages, with the camera housing being available in a white or grey finish.

### 1.1 Product Features

- 1/2.7" 2MP CMOS
- AGC, AWB, AES
- 2D-DNR, 3D-DNR, D-WDR
- Multi-language OSD control from recorder
- Multi-technology (AHD, TVI, CVI and CVBS) output
- DC12V
- NDAA compliant

### 1.2 Product Dimensions



### 1.3 Specification

Camera	Image Sensor	1/2.7" 2MP CMOS
	Image Size	1958 × 1105
	Image System	PAL / NTSC
	Resolution	2MP
	Electronic Shutter	Auto
	Synchronisation	Internal synchronisation
	Minimum Illumination	0 Lux (IR On)
	Lens	2.8 mm
	S / N Ratio	≥41dB (AGC Off)
	Video Output	AHD, TVI, CVI (1080p @ 25fps, 1080p @ 30fps) / CVBS (1280 x 576, 1280 × 480)
Functions	IR Distance	Up to 30m
	IR LED	2 Pcs
	Functional Control	OSD (Multi-language)
	Day & Night	True day / night, Smart, Colour, B&W
	DNR	2D-DNR, 3D-DNR
	AGC	Auto
	White Balance	Auto / Manual
Others	Ingress Protection	IP66
	Power Supply	DC12V (± 10%)
	Power Consumption	<4W
	Working Environment	Storage: -20°C ~ 60°C, Working: -10°C ~ 60°C, Humidity: 90% or less (Non-condensing)
	Dimensions	93.2 × 81.7 mm
	Weight	320g

## 2.0 OSD Menu Tree

MAIN MENU		SECOND MENU	
AE	BRIGHTNESS	1 ~ 20	
	EXPOSURE MODE	GLOBE	
		CENTER	
		BLC	LV 1~8
		FLC	
RETURN			
WB	MODE	ATW	
		MWB	RGIAN 1 ~ 16 BGAIN 1 ~ 16
	RETURN		
DAY-NIGHT	MODE	EXT / AUTO / COLOR / B&W	
	RETURN		
VEDIO SETTING	CONTRAST	1 ~ 10	
	SHARPNESS	1 ~ 20	
	COLOR GAIN	1 ~ 20	
	DNR	1 ~ 15	
	FORMAT	PAL / NTSC	
	DWDR	ON / OFF	
	RETURN		
LANGUAGE	ENGLISH CHINESS SPANISH ITALIAN		
RESET			
SAVE & EXIT			
EXIT			

## 3.0 Product Installation

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### 3.1 Note

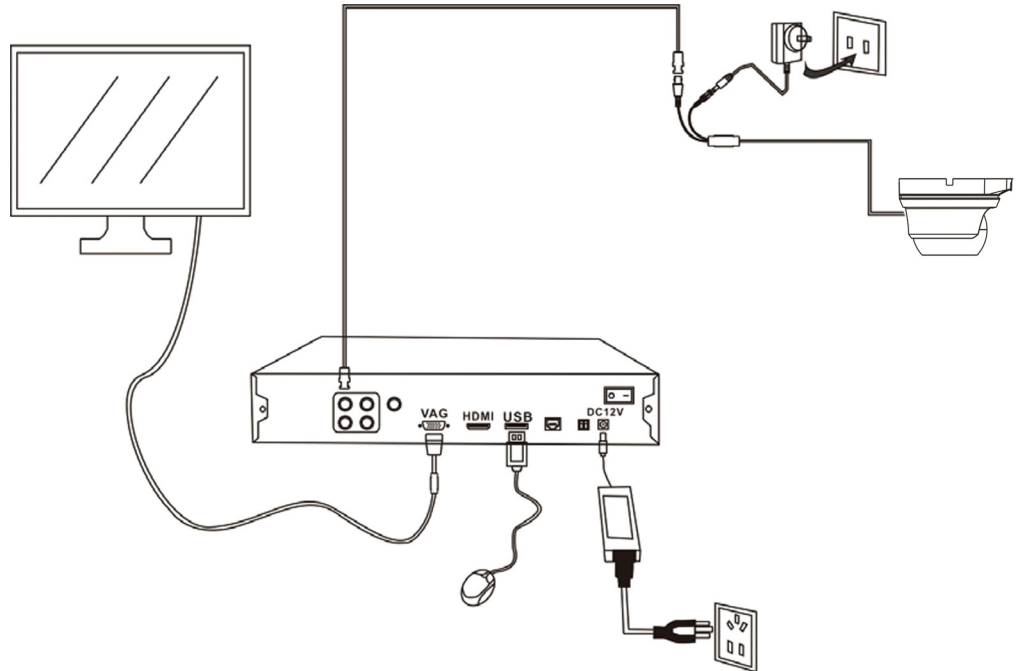
1. Make sure the unit is powered off before installation.
2. Check that the power supply voltage is consistent with the electric voltage to prevent damage to the device.
3. Do not use in an environment beyond the boundaries of the temperature, and maintain good ventilation to prevent the risk of fire or electric shock.
4. The installation and maintenance of this product should be professional, please do not in any way remove or modify the equipment and only use the required accessories from the manufacturers. Problems caused by unauthorised repair are at your own risk
5. Before installation, please prepare the following tools:
  - A straight or a Phillips-head screwdriver
  - Multi-meter
  - Scissors
  - Needle nose pliers
  - Tape measure
  - Pencil

### 3.2 Installation Method

1. Check the equipment and make sure you have everything you need.
2. Mount the bracket or base. If it's a cement wall you will need to install using the expansion screws that need a stand or base hole, and then mount the bracket or base. If it's a wooden wall, use self-tapping screws to mount.
3. When mounting the camera, adjust the lens position and make sure it's aimed at the monitoring points with a clear picture. Manually fix the lens location and adjust the hemisphere cover. Re-examine the screen to see whether the camera meets the requirement. Tighten the hemisphere cover.

*Note: The wall needs to bear at least 3x the weight of bracket (base) and camera.*

### 3.3 Product Connection





**Q: No picture with power on**

A: It may result from abnormal power supply. Please check if the power supply voltage and its polarity are correct. Also you will need to confirm if the wire connections and monitors are normal.

**Q: Unclear image output**

A: It is caused by incomplete adjustment of the lens back focus. Loosen the fixed screw of the lens until it turns clear. If not, please check if the lens is in good condition, or the lens surface and sensor surface is clear. If not, please wipe with a degreasing cotton swab or lens paper.

**Q: Horizontal interference fringes on image**

A: This is generally caused by too strong of a hum bar of power supply which needs to be filtered out. It may also be related to the used monitor or peripheral devices.

**Q: Constantly change of the ground color of image**

A: This is caused by colour scrolling, which is mainly due to alternating electromagnetic field of fluorescent lamp, and the inherent phenomenon of camera. It can be weakened with two methods: one is to reduce the usage of fluorescent lamp. The other is to enlarge the distance with the camera. To overcome it thoroughly, please select LL synchronisation camera.

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