



GHD232CP

Product Manual



Overview

The Genie GHD232CP is a compact 1080p analogue HD camera module designed for CCTV and OEM camera integration. It supports TVI, AHD, CVI and CVBS video formats and UTC control for remote configuration.

Key Specifications

- 1/2.9 inch Progressive Scan CMOS sensor
- 1080p at 30fps
- 4-in-1 output: AHD, TVI, CVI, CVBS
- Fixed 3.6mm lens
- Mechanical Day/Night
- WDR, 3D DNR and Defog

Available OSD functions

Using UTC you can access:

- Exposure
- White balance
- WDR
- DNR
- Day/Night settings
- Motion detection
- Privacy masks
- Image orientation
- Defog
- Video format settings

UTC Control and OSD Menu

Use a compatible DVR with UTC support to access camera settings through the coaxial cable. Open PTZ/UTC/Camera Menu on the DVR and send the Menu command to display the OSD.

To access and navigate the menu:

- Depress joystick button (ENTER) until the OSD menu appears
- Press UP/DOWN/LEFT/RIGHT key for approximately 2 sec.
- ENTER to select

The menu is usually listed as below but may vary between models.

Main	1st Sub Menu	2nd Sub Menu
LENS	LENS TYPE	ELC
	LENS MODE	NORMAL,DEBLUR
	RETURN	
EXPOSURE	BRIGHTNESS	0 - 20
	SHUTTER MODE	AUTO / FLICKER / MANUAL
	SHUTTER SPEED	1/25(30), 1/50(60), 1/100(120), 1/240, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000, 1/30000
	DSS	OFF, X2 - X32
	AGC MAX	OFF, 3dB, 6dB, 9dB, 12dB,15dB,19 dB,22dB,26dB,30dB,33dB,37dB,40 dB,42dB,45dB
	INITIAL	
	RETURN	
WHITE BALANCE	WB MODE	AUTO / AUTO EXT / PUSH LOCK / MANUAL
	PUSH AUTO	CONTROLLER
	COLOR GAIN	0 - 20
	KELVIN	LOW,MIDDLE,HIGH
	RED GAIN	0 - 20
	BLUE GAIN	0 - 20
	INITIAL	
WDR/BLC	RETURN	
	MODE	OFF,HLC,BLC,WDR 15P,WDR 30P (*1)
	LEVEL	HLC : 0~20, WDR : LOW / MIDDLE / HIGH
	ZONE NO	NORMAL, ROI1, ROI2, ROI3, ROI4
	WINDOW USE	ON, OFF
	X-POSITION	0~20
	Y-POSITION	0~20
	X-SIZE	0~20
	Y-SIZE	0~20
	COLOR	BLACK, WHITE, YELLOW, CYAN, GREEN, MAGENTA, RED, BLUE
	INITIAL	
	RETURN	
DAY&NIGHT	MODE	AUTO / COLOR / B & W
	DWELL TIME	0~20sec
	DAY → NIGHT	0 - 19
	NIGHT → DAY	1 - 20
	NIGHT BURST	OFF, ON
	INITIAL	
	RETURN	

Main	1st Sub Menu	2nd Sub Menu	3rd Sub Menu	4th Sub Menu
IMAGE	SHARPNESS	0 - 10		
	GAMMA	0.45 / 0.50 / 0.55 / 0.60 / 0.65 / 0.70 / 0.75		
	FLIP	OFF / H-FLIP / V-FLIP / HV-FLIP		
	D-WDR	OFF, LOW, MIDDLE, HIGH		
	DNR	OFF, LOW, MIDDLE, HIGH		
	DEFOG	OFF		
		ON	MODE	AUTO, MANUAL
			LEVEL	LOW, MIDDLE, HIGH
	INITIAL		REUTRN	
	RETURN			

Video Output Selection

DVR Type	Camera Mode
HD-TVI DVR	TVI
AHD DVR	AHD
HD-CVI DVR	CVI
Analogue DVR/Monitor	CVBS

To select the required video format:

Press UP key more than 5 sec : **AVI**

Press DOWN key more than 5 sec : **CVI**

Press LEFT key more than 5 sec : **CVBS**

Press RIGHT key more than 5 sec : **TVI**

If the option 'YES' is not selected within 30sec, the value returns to the previous setting.

Technical Specifications

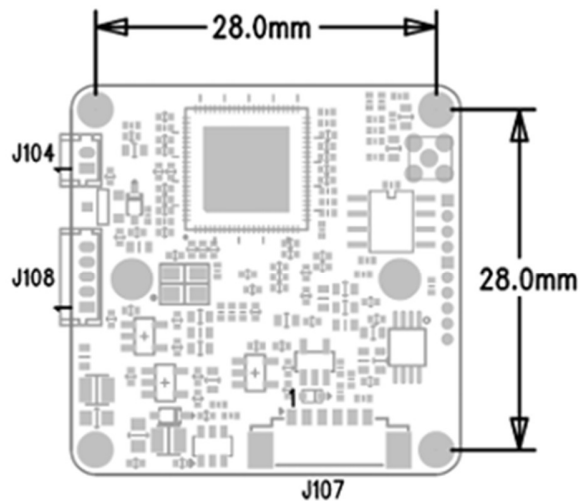
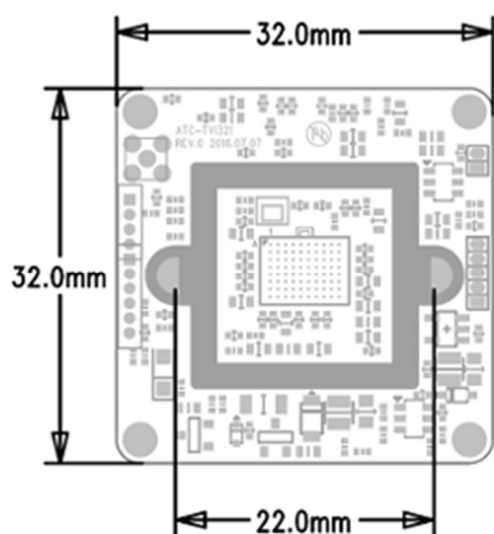
Power: 12VDC $\pm$ 10%

Current: 140mA Max

Dimensions: 32 x 32mm

Lens: 3.6mm Fixed

View Angle: 106.9° D



J104(TDN)

Q53047-0210, Pitch 1.25mm

PIN NO.	NAME	I/O	NOTE
1	IR CUT +	O	
2	IR CUT -	O	

J107(MAIN)

Q53398-0671, Pitch 1.25mm

PIN NO.	NAME	I/O	NOTE
1	DC+12V	I	
2	GND	-	
3	4 IN 1	O	TVI / CVI / AVI / CVBS
4	AD-KEY	I	
5	CVBS	O	
6	GND	-	

J108(DN_EXT)

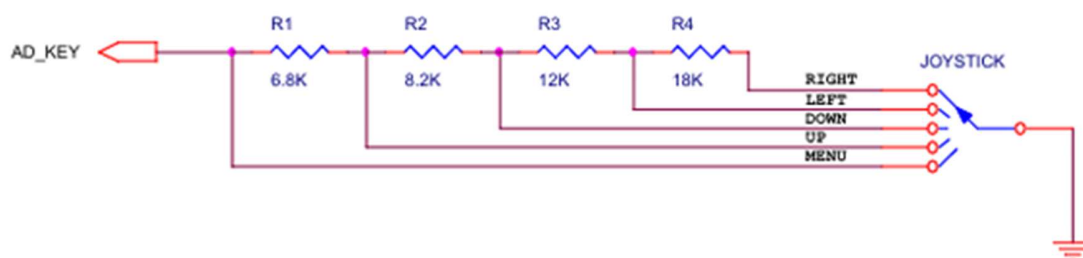
053047-0510 Pitch 1.25mm

PIN NO.	NAME	I/O	NOTE
1	DC+12V	O	
2	GND	-	
3	IR LED ON/OFF	O	
4	DC+3.3V	O	
5	SENSOR IN	I	

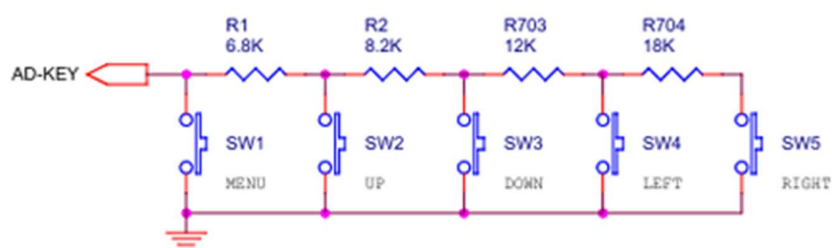
■ J108 is designed to operate with GENIE LED board.

If you use the other LED board, it may not operate properly.

CIRCUIT DIAGRAM



<JOYSTICK SWITCH TYPE>



<TACT SWITCH TYPE>

Installation Instructions

1. Mount the camera module securely within the host enclosure.
2. Connect the video output to a compatible TVI, AHD, CVI or CVBS recorder/monitor.

3. Connect a regulated 12VDC power supply.
4. Power on the system and confirm video is displayed.
5. Use UTC control from a compatible DVR to configure image settings and video format.
6. Verify focus, viewing angle and image quality before final assembly.

Safety Warnings

- Use only a regulated 12VDC power source within the specified voltage range.
- Disconnect power before making wiring changes.
- Avoid exposure to water, excessive humidity, dust or corrosive environments.
- Do not attempt to disassemble or modify the camera module.
- Observe anti-static handling precautions when installing the PCB camera.

Troubleshooting

- No Video Output: Verify power supply, video format selection, and DVR compatibility.
- Image Flicker: Check power stability and shutter settings.
- No OSD Menu Access: Confirm DVR supports UTC control and camera format matches DVR.
- Poor Image Quality: Clean lens, verify focus, and adjust WDR/DNR settings.

Warranty Information

This product is covered by Genie standard warranty terms. Warranty coverage is subject to correct installation, normal operating conditions, and compliance with the instructions in this manual. Physical damage, misuse, unauthorised modification, and damage caused by incorrect power sources are not covered.

Technical Support

Sales: +44 (0)1707 330541

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Website: www.genieproducts.co.uk

When contacting support, please provide the product model, installation details, and a description of the issue.