

# CAM372 - HD-SDI IR Eyeball Camera With 3.6mm Lens

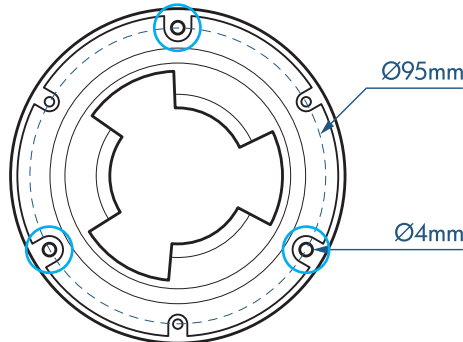


## Broadcast Quality 1080p Eyeball Camera

An impressive HD-SDI eyeball camera with a 3.6mm, 2.1 Mega pixel lens, records great quality 1080p images at 25fps. With an attractive design available in grey or white this little eyeball is ideal for both residential or commercial use.

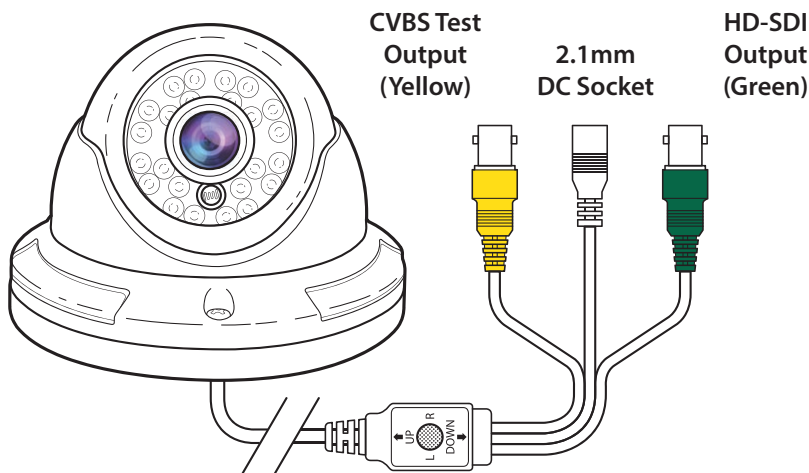
## Mounting The Camera

The CAM372 is mounted by screwing through the three mounting holes in the base of the dome. The helpful diagram on the right shows sizes and dimensions.



## Connecting The Camera

The CAM372 comes with moulded connections for HD-SDI video, analogue video test output (CVBS) and power. There are BNC sockets for connecting the HD and analogue video and a 2.1mm DC socket for connecting the power.



## Features

- 1080p At 25fps
- 2.1 Mega Pixel Lens
- 3.6mm Board
- 30m IR Range
- True Day Night
- Wide Dynamic Range

## Specification

FUNCTION	SPECIFICATION
CCD	1/3" 2.1 Mega Pixel Panasonic CMOS
Resolution	1080p @ 25fps
Lens	3.6mm Board
Min. Illumination	0 Lux With IRs On
IR LEDs	24
IR Range	30m
Day/Night	Mechanical
Video Output	1V p~p, 75Ω
Video Connection	HD-SDI BNC Socket
CVBS Connection	Analogue BNC Socket
Power/Current	12V DC (± 10%) 240mA
Power Connection	2.1mm Socket
Gain Control	Automatic
IP Rating	IP66
Operating Temp.	-10°C ~ +50°C
Dimensions	105.5mm(D) x 70mm(H)

## Options Available

PART CODE	DESCRIPTION
CAM372G	3.6mm IR Eyeball, Grey
CAM372W	3.6mm IR Eyeball, White

## Other Products To Consider



1080p HD-SDI IR Eyeball Camera With A 2.8-12mm 2.1 Mega Pixel Lens  
**CAM375G**



HD-SDI Repeater For Extra Long Cable Runs. (Required Every 100m)  
**HDM100**

All specifications are approximate. System Q Ltd reserves the right to change any product specifications or features without notice. Whilst every effort is made to ensure that these instructions are complete and accurate, System Q Ltd cannot be held responsible in any way for any losses, no matter how they arise, from errors or omissions in these instructions, or the performance or non-performance of the equipment that these instructions refer to.

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## Powering The Camera

The CAM372 requires a regulated 12V DC power supply providing 240mA. You should always allow additional headroom to account for any extra loads such as auto iris lenses, heater kits or IR LEDs. As a rule of thumb you should add approximately 30% on top of the minimum current consumption of the camera. Taking this into account we recommend a regulated 12V DC PSU providing no less than 300mA.

## Cabling

When cabling the CAM372 you **must use good quality RG59 co-ax cable**. HD-SDI cameras are designed to be used with co-ax only and will not work with CAT5 cable.

As HD-SDI is a digital transmission it requires a stronger signal to produce a picture when compared to an analogue transmission. The **maximum cable run for HD-SDI cameras without repeaters is 100m**. Longer cable runs require a HD-SDI repeater every 100m and a maximum of 4 repeaters can be used per run.

## Accessing The Camera's Menu

The camera's menu system can be accessed and controlled using the in-line joystick on the camera's video lead. The joystick is used for selecting menu items and changing values. Pressing the joystick down confirms selection.

## OSD Menu

MENU ITEM	OPTIONS
FOCUS ADJ	ON / OFF
LENS	ELC / ALC
	ELC: 1. MODE: NORMAL / DEBLUR ALC: 1. MODE: INDOOR / OUTDOOR / DEBLUR
EXPOSURE	1. BRIGHTNESS: 0~20 2. SHUTTER: AUTO / MANUAL / FLICKER MANUAL: 1/25~1/60000 3. SENS-UP: X2 / X3 / X4 / X5 / X6 / X7 / X8 / OFF 4. AGC: 0~20
BACKLIGHT	OFF / HLC / BLC / WDR
	HLC: 1. LEVEL: 0~20 2. MODE: ALL DAY / NIGHT ONLY
	BLC: 1. H-POS: 0~20 2. V-POS: 0~20 3. H-SIZE: 0~20 4. V-SIZE: 0~20
	WDR: 1. WEIGHT: LOW / MIDDLE / HIGH
DAY & NIGHT	1. MODE: AUTO / COLOUR / B&W / EXTERN 2. IR LED: ON / OFF 3. ANTI-SAT: 0~20 4. EXTREN S/W: LOW / HIGH 5. AGC THRESH: 0~20 6. AGC MARGIN: 0~20 7. DELAY: LOW / MIDDLE / HIGH
WHITE BAL	AUTO / AUTO <sub>ext</sub> / PRESET / MANUAL
	MANUAL: 1. KELVIN: LOW / MIDDLE / HIGH 2. R-GAIN: 0~20 3. B-GAIN: 0~20
DNR	LOW / MIDDLE / HIGH / OFF

OSD Menu Continued On Next Page ▶▶▶

For more information on menu options and what they do see online tip 295 ▶▶▶



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MENU ITEM	OPTIONS
IMAGE	1. SHARPNESS: 0~10 2. GAMMA: 0.45~0.65 3. COLOUR GAIN: 0~20 4. MIRROR: OFF / ON 5. FLIP: OFF / ON 6. D-ZOOM: 1.0X~8.0X 7. ACE: OFF / LOW / MIDDLE / HIGH 8. DEFOG: OFF / ON ON: MODE: AUTO / MANUAL LEVEL: LOW / MIDDLE / HIGH 9. SHADING: OFF / ON ON: WEIGHT: 0%~100% 10. PRIVACY: OFF / ON ON: ZONE NUM: 0~15 ZONE DISP: ON / OFF H-POS: 0~60 V-POS: 0~40 H-SIZE: 0~40 V-SIZE: 0~40 Y-LEVEL: 0~20 CR-LEVEL: 0~20 CB-LEVEL: 0~20
MOTION	ON / OFF ON: 1. SENSITIVITY: 0~20 2. WINDOW TONE: 0~6 3. DET H-POS: 0~60 4. DET V-POS: 0~40 5. DET H-SIZE: 0~60 6. DET V-SIZE: 0~40 7. MOTION OSD: OFF / ON 8. ALARM: OFF / ON
SYSTEM	1. COM: CAM ID: 0~255 BAUDRATE: 2400 / 4800 / 9600 / 57600 / 115200 2. IMAGE RANGE: USER / FULL / COMP USER: OFFSET: 0~20 3. OUTPUT MODE: 1080P / 720P / 720P CROP 4. MONITOR: 0~3 5. FRAME RATE: 25FPS / 30FPS 6. CVBS: PAL / NTSC 7. LANGUAGE: ENG / CHN / CHN (S) / KOR / JPN / DEU / FRA / NLD / ESP / ITA 8. COLOUR BAR: OFF / ON 9. RESET
EXIT	EXIT MENU SYSTEM

## Fault Finding

The table below describes common problems and possible solutions.

Fault	Possible Cause	Possible Solution
Interference On The Camera Picture	Poor or inadequate cabling or an unregulated or poorly regulated power supply.	Make sure you are using a regulated 12V DC power supply.
No Picture	The camera cannot function without the correct working power supply.  Poor or incorrect cable used.	Test that the camera has the correct voltage supplying it, you must do this with the camera connected so that there is load on the PSU. The camera should have at least 10.5V DC connected to it.  Check there is and image at the camera end with a test monitor using the CVBS test output. If there is a picture here but not at the DVR it could be one of the following: A. Video loss in Composite cable as run too long, usually you would get a picture up to around 100 meters. For longer cable runs you must use a HD-SDI repeater every 100m. A maximum of 4 repeaters can be used per run. B. Ensure that the BNC - BNC lead that you connect between the camera and monitor has no shorts or open circuits. If you are making your own lead, don't forget the lead must have two wires connected to complete the circuit, Video and Ground.
The Picture's Colour Changes Constantly	Fluorescent lighting emits an electromagnetic field which can cause colour roll.	Move the camera further away from any fluorescent lighting.

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