

The CAM062 Traditional Colour Camera produces good quality images at a low budget cost. The camera uses a 1/3" Sony CCD and can be fitted with a DC or Video Drive lens. The camera has a heavy-duty ivory and grey metal case and has additional dipswitches for setting electronic exposure, auto white balance, automatic gain control and backlight compensation. A free protective plastic ivory lens shield is also supplied.



Lens not included

Mounting the Camera

The camera is for indoor mounting using a standard camera bracket connected to the top or bottom screw fitting or externally in a waterproof housing.

Powering the Camera

The camera requires a 12V DC regulated power supply. The camera is provided with a mini power 2.1 mm jack socket. It is recommended to use a power supply that is rated higher than the current consumption of the camera i.e. the current consumption is 160mA add approximately 50% so use a regulated power supply of 250mA or above.

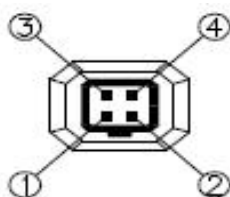
Connecting the camera to control equipment.

The camera comes with a BNC connector for video out. Remember that the Video out from the camera is like any other electrical circuit and requires two wires to complete the circuit. When using a co-ax type cable such as RG59 or similar, the outer braid of the co-ax provides the "0V GROUND" connection and the inner core provides the "Video" connection.

Fitting the Auto Iris Lens

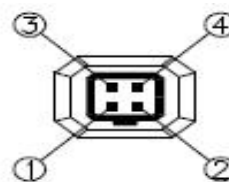
This camera can be fitted with a Direct Drive (DC Iris) or Video Drive Lens. If you purchase a Direct Drive Lens this is usually fitted with a lens connector that can be fitted to either the side or rear connections on the camera. If you need to make up the required connector, connections are as follows:

DC Iris Direct Drive Connections



- P1 DAMPING -
- P2 DAMPING +
- P3 DRIVE
- P4 GND

Video Drive Connections



- P1 12v RED
- P2 IRIS WHITE
- P3 Not Used
- P4 GND

Ensure that the Lens switch on rear of camera is switched to Video or DC to match lens fitted.

Fitting Auto Iris Lens

Remove the cap cover from the top of the lens mount.

Screw the lens into the lens mount and fit the lens connector to the side or back of camera.

Connect the composite video output to the monitor and connect 12vDC power to light LED indicator.

Adjust the focus and lens iris to obtain the best picture.

If the focus is still not sharp, adjust the back focus as follows:

- i) Set focus ring to infinity.
- ii) Aim the camera at a subject at a minimum distance of 20 metres.
- iii) Using a screwdriver loosen the lens mount retaining screw situated under the lens mount.
- iv) Turn both the lens and lens mount until the subject is in focus and the picture is sharp.
- v) Retighten the lens mount screw.

Safety Precautions

In order to preserve the life of the camera ensure that it is used in a clean, dry and dust free environment or housed in a suitable waterproof protective housing. Ensure that the camera avoids direct sunlight as this can damage the CCD. Do not install the camera in temperatures exceeding 50°C, in high humidity, exposed to damp conditions or rainfall. Avoid installing camera where it can be subject to vibration or shock. Never touch the CCD but if it requires cleaning use a soft cloth moistened with alcohol to wipe away dust.

AWB auto white balance – switch on if little change in light source.

LENS switch to Video or DC for type of lens fitted.

AGC auto gain control – switch to on to increase gain.

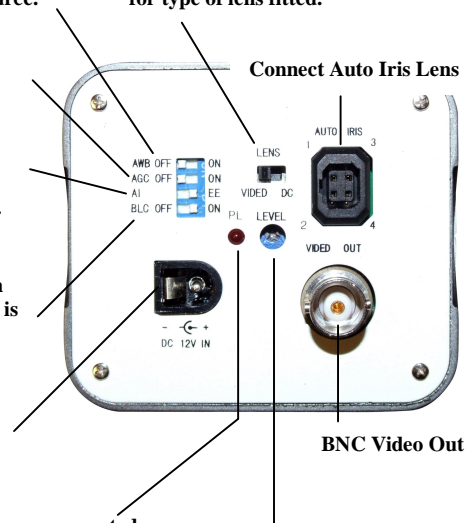
AI - auto iris or EE – electronic exposure
Note: Try EE if AI gives over exposure

BLC -Backlight Compensation switch to on if light imbalance is encountered encountered.

12vDC power input

PL – Power LED
Illuminates when camera connected.

Iris Level – use screwdriver to set minimum brightness.



Technical Specifications

Function	Description	Function	Description
Image Sensor	1/3" Sony CCD 420TVL	Electronic Shutter	1/50 ~ 1/10,000 (s)
Picture Elements	500(H) x 582(V)	Auto Iris Lens	DC Direct Drive / Video Drive
System Signal	PAL	S/N Ratio	48dB or greater
Min. Illumination	0.5 Lux at F1.2	Video Output	1.0v p~p, 75Ω
Electronic Shutter Control	On / Off	Power Source	DC12v / 3W
Auto Gain Control	On / Off	Consumption	160mA
Backlight Compensation	On / Off	Operating Temperature	-10°C ~ +50°C
Auto White Balance	On / Off	Dimensions	68 x 60 x 76mm

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