



The new stylish mini-dome range for internal and external use produces good quality images at a low budget cost. Both models are available using a popular 3.6mm Nite-Devil board lens and the dome is available in a choice of silver or black finish. The dome's compact and stylish design allows for installation in almost any location and is very popular when used in shops, nurseries, banks and even churches.

Models covered in these instructions

CAM571 Surface Mount Colour Dome in black
CAM572 Surface Mount Colour Dome in silver

An optional bracket CCT575 black or CCT576 silver allows the dome to be used externally or internally where the dome requires to be wall mounted rather than ceiling mounted. The mini dome is fitted with a Nite-Devil 3.6mm board lens for a wide angle view.

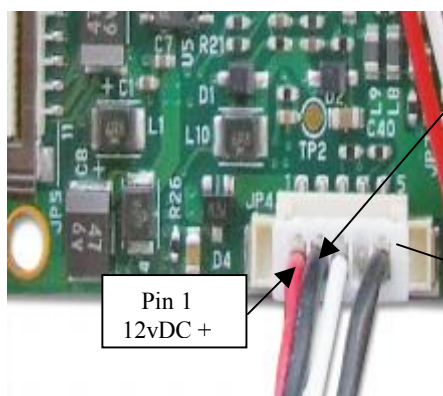
Mounting the Camera

These dome cameras come with fixing holes in the base. The camera has two connection leads, one fitted for 12v DC power and video (JP4) which is fitted, and a spare cable (JP1) for selecting various camera options.



Powering the Camera

This dome camera requires a 12V DC regulated power supply. The camera is provided with a 2.1 jack plug connected to JP4. The centre pin of the jack plug is 12vDC + and this connects to pin 1 on JP4. The black power ground (0v outer connection on jack plug) connects to pin 2 on JP4.



Pin 2
Ground

Pin 1
12vDC +

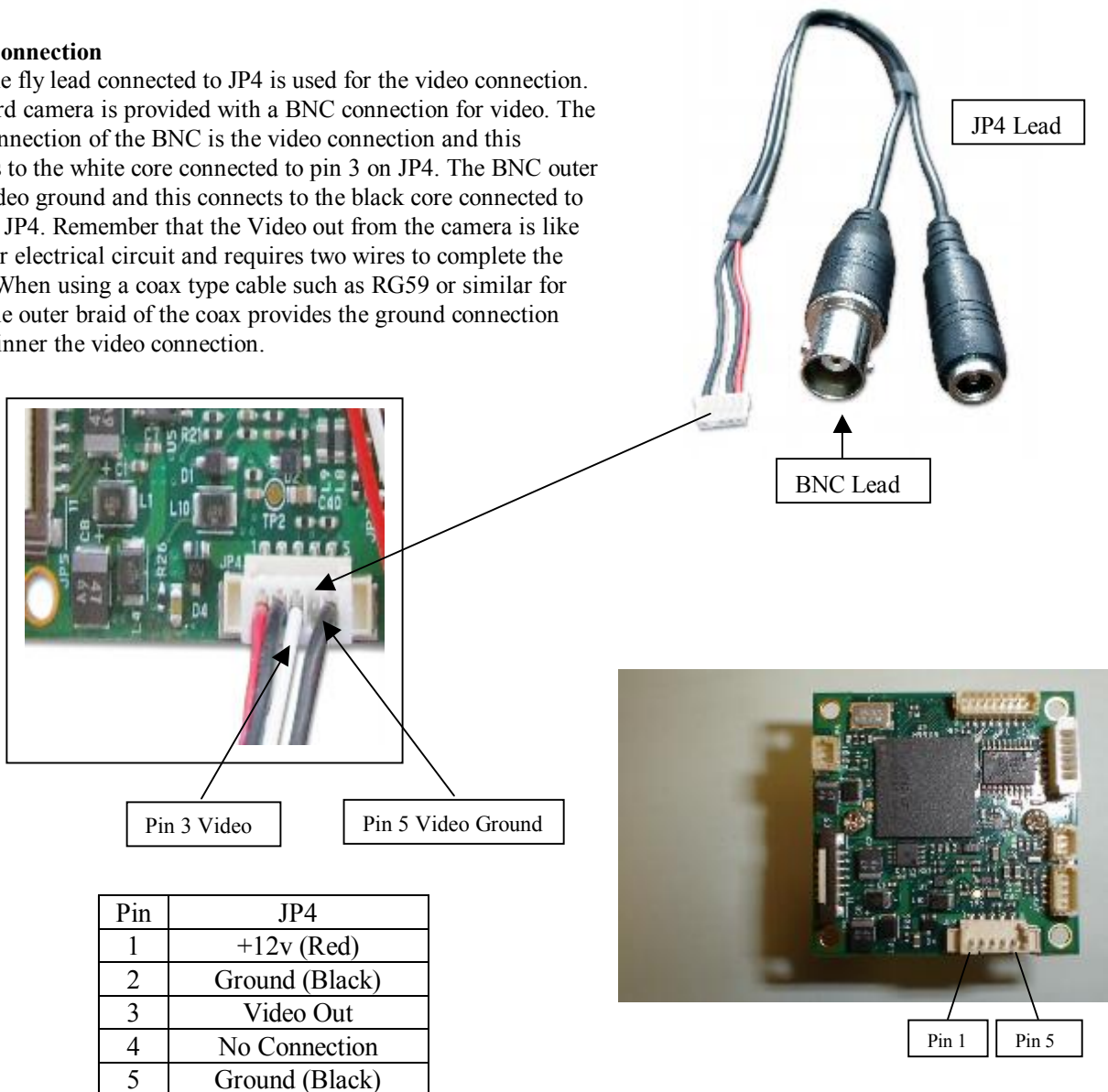


JP4 LEAD

It is recommended to use a power supply that is rated higher than the current consumption of the camera i.e. POW100 would be adequate for powering one or two cameras, but when powering more you must look at the bigger power supplies. Using an underrated power supply will cause it to run hot and will greatly reduce its life. If you are using the Easy Connection Kits that comprise of the (CCT801/802/808/809) to power and connect your camera (12V models only) please proceed as per the instructions supplied with The Easy Connection Kit. You will need to cut off the DC Plug ONLY and use the bare wires to connect through a terminal block. The 12V positive is the RED wire, the 0V is the BLACK wire. Always use a 12vDC regulated power supply. This dome camera draws 120mA so the power supply must be rated at 150mA minimum.

Video Connection

The same fly lead connected to JP4 is used for the video connection. The board camera is provided with a BNC connection for video. The inner connection of the BNC is the video connection and this connects to the white core connected to pin 3 on JP4. The BNC outer is the video ground and this connects to the black core connected to pin 5 on JP4. 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 coax type cable such as RG59 or similar for video, the outer braid of the coax provides the ground connection and the inner the video connection.



Troubleshooting

The camera is built to the highest standards and every unit is fully tested prior to packing so if you experience an installation problem you need to investigate your cabling, connections, power supply and monitor. If you do fail to get a picture on a monitor you need to check the following:

No picture

The camera cannot function without the correct working power supply. The power supply must be regulated and be capable of supplying 120mA per camera constantly. For the 12vD.C camera range check that the power supply is functioning correctly using a multimeter set on DC volts (above 12v) and connect the probes to the power supply's output. The meter should read between between 12 – 13v. If the meter shows a negative voltage the PSU could be wired incorrectly or you may have the meter leads reversed. To ensure the meter is working correctly, connect it to a known voltage and polarity such as a battery. If you find that the supply is giving out more than 13v you may be using a non-regulated power supply and must stop using it with the camera immediately or it may cause permanent damage to it. 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 BNC-BNC lead, don't forget the lead must have two wires connected to complete the

circuit, Video and Ground. If in doubt swap your lead for a pre-wired commercial one, as faulty leads are the main cause of problems.

Interference on the camera picture

This is usually caused by poor or inadequate cabling, not observing the correct wiring techniques and for 12v DC cameras the use of unregulated or poorly regulated power supply. If you want a good picture quality and require the camera to work to its full potential, do not use an intruder alarm psu with 12v DC cameras. If you suspect you have a psu problem with a 12v DC camera, the best way to check this is to power your system using a fully charged 12v lead acid battery to give 12v totally regulated supply. If this solves the problem then you need to change the psu for a better quality one.

Picture is out of focus

Remove the top of the camera, loosen the locking screw and vary the focal adjustment until the picture is in focus. Then retighten the locking screw.

Technical Specifications

Model	CAM571 Black Base	CAM572 Silver Base
Mode	PAL	
Image Sensor	1/3" CCD interline transfer type	
CCD Total Pixels	~ 470K	
Sync System	Internal	
Minimum Illumination	0.0014 Lux @ F1.2 / 40 IRE SENS-UP (32x) B/W	
Lens & View angle	3.6mm F2.0	
Resolution	540 TVL	
White Balance	Mode ATW	
S/N Ratio Typical (max)	52dB (min) / 60dB (TYP)	
Sense-Up	AUTO (256x)	
BLC Function	ON	
Digital Noise Reduction	Built In	
Gamma Correction	0.45	
Gain Control	AGC ON	
Video Output	1.0v p~p composite video @ 75ohms	
Operation Temperature	-20°C ~ +50°C	
Operation Humidity	Within 85% Relative Humidity	
Power Consumption	12vDC 120mA (Use minimum 150mA power supply unit.)	

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