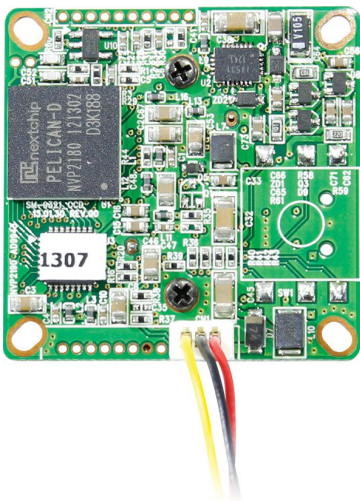


The Mirrored Dome CAM514 NiteDevil 700 TVL Colour Camera produces excellent quality images. The CAM514 with black base provides fantastic colour representation and a very clear image. These 12v DC cameras offer low light sensitivity down to 0.00019 Lux @ F1.2 using the Sense-Up feature.



### Connecting The Camera

These dome cameras come with fixing holes in the base. The camera's connection lead is fitted with a 12v DC power socket and a BNC video socket.



### Powering the Camera

This dome camera requires a 12V DC regulated power supply. The camera is provided with a 2.1 jack plug.

## Camera Options

This NiteDevil board camera provides additional camera options to be selected. These options are selected using a REM088 up the co-ax controller (purchased separately).

These options include AES or ALC, AGC on or off, ATW or AWC, BLC on or off, Horizontal Mirror off or on, Vertical Mirror off or on and Sense Up on or off.



REM088 Up The  
Co-ax Controller

## Camera Options Available

**AES (Default) Auto Electronic Shutter.** For fixed iris lens when shutter speed responds to amount of light to keep output signal at optimum level.

**ALC Automatic Light Control.** Option for auto iris lens to balance light levels. **NOTE: This camera uses a fixed iris lens.**

**AGC (Default On) Automatic Gain Control.** Provides clearer images in low light conditions.

**ATW (Default) Auto Tracking White Balance.** Suitable for viewing objects with changing colour temperature.

**AWB Auto White Balance.** This uses stored settings for white balance and is most suitable where there is little change in light source.

**BLC (Default On) Backlight Compensation.** Ability to compensate when background light and subject light are at different levels.

**Horizontal Mirror (Default Off)** Horizontal picture reverse.

**Vertical Mirror (Default set to Off)** Vertical picture reverse.

**Sense Up (Default set to On)** This helps to maintain a bright clear image by detecting changes of light in low light conditions by automatically adjusting the shutter speed.

## 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	CAM514
Mode	PAL
Image Sensor	1/3" CCD interline transfer type
CCD Total Pixels	~ 470K
Sync System	Internal
Minimum Illumination	0.00019 LUX NiteDevil Mode
Lens & View angle	3.6mm F2.0
Resolution	700 TVL
White Balance	Mode ATW / AWC Range 3200 ~ 10000°K
S/N Ratio Typical (max)	52dB (min) / 60dB (TYP) (AGC OFF)
Sense-Up	AUTO (256x) / OFF
Horizontal Mirror Function	OFF (Normal Image) / ON (Horizontal Image Inversion)
Vertical Mirror Function	OFF (Normal Image) / ON (Vertical Image Inversion)
BLC Function	ON / OFF
Digital Noise Reduction	Built In
Gamma Correction	0.45
Gain Control	AGC ON / OFF
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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