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**CAM119S/120S Vari-focal Infrared Camera INSTRUCTIONS**


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These cameras, the CAM119S and CAM120S are housed in an attractive silver metal case and are rated IP66 for external use. The cameras are rated at 530TVL and use the Sony HQ1 chipset. The cameras both have powerful IR LEDs providing infra red illumination when light levels drop below 3 Lux. The two versions of this camera provide vari-focal adjustment and the CAM119S includes a 3.5 ~ 8mm lens for wider angle view and the CAM120S a 9 ~ 22mm lens for narrower but closer views. The cameras are both supplied with a curved weather protection cover that can be adjusted according to your requirements and both cameras have fittings for connecting camera brackets to the top or bottom of the cameras.



### **MAIN FEATURES**

- ☑ Sony 1/3" CCD sensor.
- ☑ Heavy-duty construction for extreme conditions.
- ☑ Includes a 3.5~8mm or 9~22mm Vari-focal Direct Drive Lens.
- ☑ 20/40 IR LEDs (850nm) providing 8/15 metres illumination with 30° beam.
- ☑ Photocell operation of I.R lights.
- ☑ Min Illumination 0.5 Lux 530TVL
- ☑ Completely waterproof for external use.
- ☑ DC Auto Iris Control.
- ☑ Automatic Gain Control (AGC)
- ☑ Auto CDS light sensor switches on/off LEDs for B/W mode for low light surveillance.
- ☑ 12volt DC 600mA/950mA

### **APPLICATIONS**

These cameras are particularly suitable for defence systems, military, police, airports, forest surveillance, subway stations, company warehouses, office buildings and garages, jewellers, department stores, hospitals, night clubs, casinos, public and private residences. This range of external day/night colour cameras provides outstanding performance and is particularly suited for monitoring sensitive areas with excellent low light performance, built-in infra-red lights and compact design.

### **MODELS COVERED BY THESE INSTRUCTIONS**

**CAM119S**      12v DC Hi-Resolution Colour SONY 530TVL 3.5~8mm Lens  
**CAM120S**      12v DC Hi-Resolution Colour SONY 530TVL 9~22mm Lens

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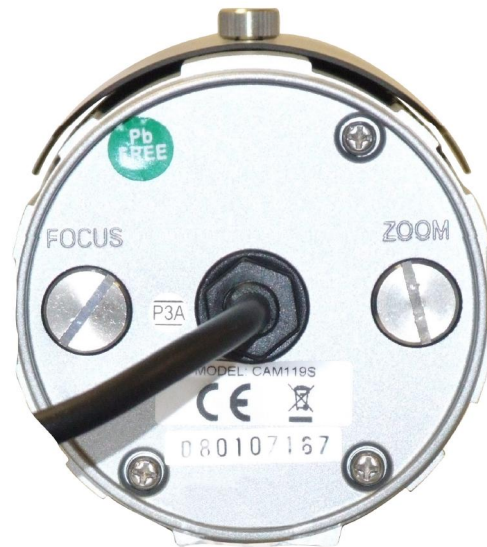
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**POWERING THE CAMERA****Powering 12v DC models CAM119S and CAM120S**

The 12v DC cameras require a power supply that has a continuous rating of at least 600mA/950mA to cater for the infra-red capability. It is recommended that a 1.5 amp power supply or higher are used and that they are well regulated and provide a smooth 12v DC output. The power supply used must not be a security type used in intruder alarms as the over voltage may damage the camera and void the warranty. These cameras are supplied with a 12" waterproof cable and a BNC female for video and a DC jack for 12v DC power in.

**Adjusting Focus and Zoom Controls**

To adjust the Focus and Zoom controls remove the corresponding covers using a coin or wide bladed screwdriver.

**Troubleshooting Guide**

These cameras are built to the highest standards and every unit is tested prior to packing. If you experience an installation problem you first need to check your cabling, connections, power supply and monitor.

**No picture or a poor picture**

The camera cannot function without the correct working power supply. The power supply must be regulated and be capable of supplying 1.5A minimum per camera continuously.

Check that the power supply is functioning correctly using a multimeter set on DC voltage (above 12v) and connect the probes to the power supply's output plug or terminal strip. The meter reading should be between 12 - 13 volts. If a negative voltage is read then either the power supply is incorrectly wired or the multimeter leads have been reversed in error. If the reading is over 13 volts DC you may be using an unregulated power supply, which can damage the camera. If the voltage is under 12 volts it has been known for a camera to work perfectly during the daytime without using the infrareds but not allowing the infrareds to operate during the night.

Make sure that the video lead that you connect between the camera and the monitor has no shorts or open circuits. If you are making your own lead ensure that you have two connections for video i.e. video and ground as the camera will not function correctly. Faulty leads are generally the most common problem found when connecting cameras.

**Interference on the camera picture**

Interference is usually caused by poor or inadequate cabling, not observing correct wiring techniques or not using a regulated power supply. If you want a good quality picture ensure that you do not use an intruder alarm power supply unit with 12-volt cameras.

**CAM119S/120S Vari-focal Infrared Camera INSTRUCTIONS****TECHNICAL SPECIFICATIONS**

*Note: Design and specifications are subject to change without prior notice.*

	CCT119S	CCT120S
Image Sensor	Sony 1/3" HQ1 Chip CCD	
Resolution	530TVL	
Lens Type	3.5mm ~ 8mm	9mm ~ 22mm
Image Output	1 Volt Peak ~ Peak 75 ohm	
Minimum Illumination	0.4 Lux @ F2.0	
Infra Red LEDs	20	40
Input Voltage	12v DC	
Current Consumption	600mA	950mA
IP Rating	IP66	
Dimensions	140.5mm (H) x 76mm (D)	150.5mm (H) x 88mm (D)
Signal to Noise Ratio	More than 48dB	

*All specifications are approximate. Kovert.com reserves the right to change any product specification or features without notice. Whilst every effort is made to ensure that these instructions are complete and accurate, kovert.com 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 camera or other equipment that these instructions refer.*