

## Features

1/3" Sony SuperHAD colour CCD –  
Vari-focal lens 6mm ~ 15mm –  
420TVL or 520TVL –  
Auto Electronic Shutter (AES) –  
Auto Gain Control (AGC) –  
72 x Infra Red LEDs -  
Illumination up to 55 metres –  
12v DC, 800mA (leds on) –  
Free cable managed bracket



## Description

The CAM850/CAM855 Vari-focal Infra Red colour camera uses a 1/3" Sony SuperHAD colour CCD and solid state circuitry, which provides long life and high reliability. The camera is highly resistant to shock and vibration and is easy to install.

## Installation Instructions

- 1) Connect appropriate mounting bracket to camera body.
- 2) Fit the camera protection cover.
- 3) Connect the BNC video output to the monitor or other device utilising a 75Ohm type co-axial cable. We recommend the RG59 co-axial cable and connect the power source to the power cable.
- 4) Release the zoom control and move to required distance, lock it and then adjust the focus control.

Focus and  
Zoom controls



## Powering the camera

The 12v DC cameras require a power supply that has a continuous rating of at least 800mA to cater for the infra-red capability. It is recommended that a 1.2 amp power supply or higher is used and is regulated and provides 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.

## Troubleshooting

The camera cannot function without the correct working power supply. The power supply must be regulated and be capable of supplying 1.2A 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 infra reds 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.

**Special Note**

When this unit is in use, avoid direct eye contact with the infrared lights.

The unit's outer case can heat up to 60°C when in use and care should be taken to ensure that this camera is fitted where it cannot be easily touched. It must also not be fitted in close proximity of any flammable materials.

Note that infrared light is polarised light and therefore acts rather like a torch beam with a narrow angle of illumination. Although this camera is fitted with a 6mm~15mm lens it may be necessary to provide additional infra red lighting.

Do not use this camera in temperatures below -10° C or higher than +50° C or where humidity is greater than 90%.

Technical Specifications	CAM850	CAM855
CCD Type	1/3" Colour CCD sensor	
Picture Elements	PAL: 537 (H) x 592 (V)	
Horizontal Resolution	420TVL	520TVL
Minimum Illumination	0.4 lux 0 lux with IRs/ F2.0	
S/N Ratio	More than 50dB	
Auto Electronic Shutter	PAL: 1/50s – 1/100,000s	
Lens	6~15mm Varifocal Lens	
Water Resistance	IP65	
Infra Red LEDs	72	
IR Projection distance	55 metres	
Scanning System	Interlace 2:1	
Operating Temperature	-10°C ~ 50°C	
Video Output	1 V p-p / 75 Ohms	
Power consumption	12V DC ± 10% 800mA with leds on	
Dimensions Body	176mm (L) x 87.4mm (D)	

All specifications are approximate. Kovert.com 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, 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 equipment that these instructions refer to.



WEEE/CGO/8355

This symbol on the products and/or accompanying documents means that used electronic equipment must not be mixed with general household waste. For treatment, recovery and recycling please return this unit to your trade supplier or local designated collection point as defined by your local council.