B&W KOVERT INSTRUCTIONS

Features

- ♦ Excellent picture quality
- ♦ Digital signal processing
- ♦ Small compact design
- ◆ Low light capability (0.1 lux approximately)
- ♦ Infra red sensitive
- ♦ Interchangeable lens option
- ◆ Can be used with most manual C/CS mount lenses
- ♦ Audio microphone built-in
- ♦ Free mounting bracket provided



The Kovert Internal C/CS lens mount module provides an ideal solution for internal surveillance. With the ability to fit either a C or a CS mount lens, it offers flexibility to obtain the correct view of a wide range of different scenes. This great little camera even has a built-in audio microphone enabling video and audio to be recorded/monitored.

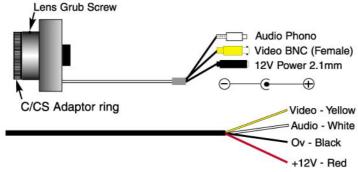
Positioning the Camera

As with all CCD cameras avoid directing the camera at any object or surface containing bright spots that may cause flare on the resulting camera picture. To reduce flaring, try to ensure that the camera is looking at a scene with uniform brightness and not a dark scene with one well-lit area. Otherwise, the "electronic iris" will become confused and the camera will "average" the picture to a dark scene and show the bright spot as a flared image. When trying to identify a person with a CCD camera, plan the installation so that the person you are trying to identify will walk directly towards the camera.



Fastening the Camera to the Wall

The camera bracket has three holes used to fasten it to the wall using the appropriate screws. The camera body itself attaches to the bracket by a threaded insert at the rear of the camera.





Connecting and Testing the Camera

To do this, the camera requires a 12V 100mA+ <u>high quality regulated power supply</u>, a recommended unit is any of the 'ANTIHUM' series of power supplies that are specifically made for getting the best out of CCTV installations. The camera's d.c input connector is a 2.1mm size DC Socket. The middle pin is the 12V+ and the outer case is 0V or ground – please ensure your power supply is regulated and has the same connector configurations or you may damage the camera and void the guarantee.

You can connect the camera to any suitable switcher, quad, multiplexer, VCR or monitor that uses the industry standard 1Volt peak-peak 75 Ω input. The camera will usually be supplied with a pre-connected BNC connector that can connect directly into the video input of other CCTV equipment by a suitable BNC-BNC lead. It is not recommended that you cut off the connectors from the camera as it may cause the camera to be connected incorrectly and damage it.

When you first connect the camera it is recommended that you connect it directly to the VIDEO INPUT of the monitor you are using to prove the camera and power supply are functioning correctly, you will need a BNC to BNC lead to do this. When you connect the power supply to the camera, with the monitor switched on, you should now see the camera picture on the monitor. Once you have concluded the camera and power supply are working satisfactorily you can proceed to installing the camera with any other equipment in your system such as a quad or switcher. If you fail to get a picture after you introduce other CCTV equipment such as a switcher, quad, multiplexer or VCR, go back to basics and connect the camera directly to the monitor to ensure you get a picture. You can then eliminate item by item in your full system to identify the cause of the problem.

Fitting a CS-MOUNT LENS

The CCT692 comes supplied with a CS to C adaptor ring pre-fitted to it. When using a CS mount lens with the CCT692 this adaptor-ring is not required

To fit a CS-MOUNT lens you need a small precision screwdriver (allen key on some models) to release the lens/adaptor-ring grub screw located near the end of the camera, by turning the grub screw 2-3 times anti-clockwise. Take care when releasing the grub screw not to unscrew it too far as its small size means it is easy to lose if it drops out of the camera body. When the grub screw has been loosened the adaptor-ring can be removed by gently turning it anti-clockwise.

When the adaptor-ring is removed, the lens can be fitted by screwing it into the camera body. To focus the camera you will need to have it connected to the monitor so as you carefully screw the lens into the camera you can obtain the sharpest focus whilst watching the monitor screen. When you have obtained the best possible focused image by just screwing the lens into the camera, lock the lens to the camera with the grub screw and then sharpen the focus by adjusting the lens' own focus adjust. The grub screw itself presses on the lens threads to hold the lens in position, so only use the minimum amount of pressure when tightening the grub screw.

NOTE - When you screw the lens into the camera, if you feel any resistance STOP, you may damage the unit by forcing it. Check you have not got the lens cross-threaded and that the lens is not too long for the camera. When you have swapped the lens please remember to retighten the grub screw.

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Fitting a C-MOUNT LENS

If you are using a C- Mount lens with the camera you will need to leave the adaptor-ring connected to the camera, although you may need to loosen and adjust the adaptor-ring to get the best possible focus.

To fit the lens, first screw the lens into the adaptor –ring whilst it is still attached to the camera. With the adaptor-ring and lens both fastened to the camera loosen the grub screw so that the adaptor –ring and lens can be turned as one object. Whilst watching the monitor, turn the adaptor and lens at the same time noting whether the picture is going in or out of focus. Turn the lens and adaptor-ring the appropriate direction until the picture is in focus then lock the adaptor-ring by re-tightening the grub screw. Fine focusing is achieved by focusing the lens itself.

If you are unsure what lens you have, you will need to try both methods, starting with the C-MOUNT method. When fitting any lens to the camera, with or without an adaptor-ring, make sure that the lens does not protrude so far into the camera that it could damage the CCD as this would void any guarantees.

Trouble shooting.

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 things.

The camera can not function without the correct working power supply.
 The power supply MUST be regulated and be capable of supplying 100ma per camera CONTINUOUSLY.

To check that your power supply is functioning correctly use a multimeter set on D.C volts (above 12V) and connect the probes to the power supply output plug (the plug polarity is shown in diagram 1). The meter should read between 12-13V. If the meter shows a negative voltage the power supply output plug could be wired incorrectly or you may have the leads of the multimeter reversed. To make sure the multimeter is working correctly, connect it to a known voltage and polarity such as a battery. If you find that the power supply is giving out more than 13.5V you may be using a non-regulated power supply and must stop using it with the camera immediately or you may cause permanent damage to the camera. This rule applies to most 12V CCTV cameras.

If the power supply appears OK but there still is no picture on the monitor, ensure that the power supply is fitted with a 2.1mm plug not a 2.5mm plug. If the power supply is fitted with a 2.5mm plug it will not make a good connection on the centre pin of the d.c power socket fitted to the camera, even though it feels a good fit when you push the plug into the socket.

- 2.1mm D.C power socket pins not open enough. It is possible that the power socket that is fitted to the camera needs to have the middle pin opened up slightly to ensure a better fit with the power-supply you are using. This can be done by inserting a small screwdriver between the "split-pin" of the d.c power socket fitted to the camera, gently widening the pin.
- Make sure the BNC –BNC lead you connect between the camera and the monitor has no shorts or open circuits. If you are making up your own BNC-BNC lead
 don't forget the lead must have two wires connected to complete the circuit, video AND GROUND, without both of them it won't function correctly. If in doubt
 swap your lead with a pre-wired commercial one, as faulty leads are the main cause of problems. Similarly, the audio microphone function needs both the audio
 connection and the ground. The ground being common to both the power-supply (0V), Video and Audio circuits.
- Video drive and Direct drive lenses are not suitable for this camera, if the lens you have has an electronic lead attached to it you can not use it with this camera.

Audio Function.

A simple test of the camera's audio function is to connect the white phono plug of the camera directly into an audio input connector on an audio amplifier, a home hifi unit will do. With the camera powered up and the amplifier on you should hear "feed-back" as the microphone amplifies "white noise" produced by the amplifier's speakers. If the audio amplifier and the camera are placed in rooms that have soundproofing between them (such as bricks and mortar!) then it will be possible to turn up the amplifier's volume and hear the sound picked up by the camera's microphone without feedback. If the volume is turned up too high, feedback and distortion may occur.

If you are still not sure talk to the technical department of your supplier or e-mail or fax KOVERT using the details at the bottom of these instructions.

SPECIFICATIONS

201101110115	
	INTERNAL Kovert C/CS Lens Module CAMERA –CCT692
Element	1/3" CCD B&W
Lens	C or CS Mount not supplied – Manual Iris only on lens
Lens Angle	As fitted by installer
T.V. lines	420 TVL
Min Illumination	0.1 lux @ F1.4
Power Voltage	12V dc - Must be regulated power supply
Current Consumption	100mA @12V
Iris Control	Auto Electronic 1/100000 second
Mounting	Bracket Included
Housing	Metal – alloy – Black finish
Size	33mm x 33mm x + Lens
Weight	Camera 70g

WARNING

Under no circumstances remove or disconnect the base of this camera or any pre-connected plugs or socket attached to it, doing so will void all guarantees.

All specifications are approximate. Kovert.net 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.net 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 to.

