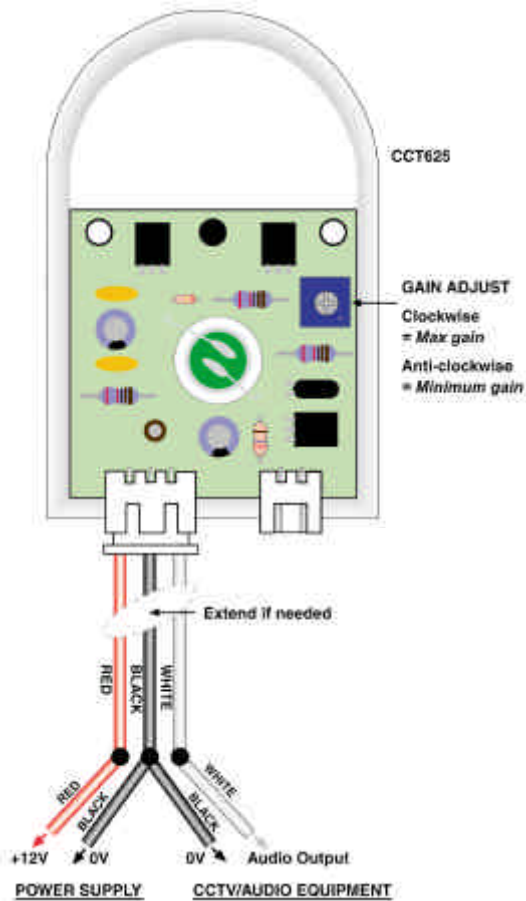**Features**

- Two or Three wire connection
- Attractive design
- Small size
- Built in gain adjustment
- Easy to fit
- Low cost

The CCT625 is a low cost but very versatile audio microphone. It can be used to add an audio to a CCTV camera or system.

The rear of the CCT625 has a "Key Slot" for easy wall mounting or optionally you can use the double-sided sticky pad (supplied) to fasten the unit to a wall or suitable surface.

For maximum flexibility the microphone can be used to operate over just two wires, the same wires sending 12V power to the microphone and sending the audio back to the monitor etc. To do this the microphone uses an additional PCB (supplied) that allows this function. It is however always recommended to use the device in its 3-wire configuration when possible as the unit performs optimally in this mode.
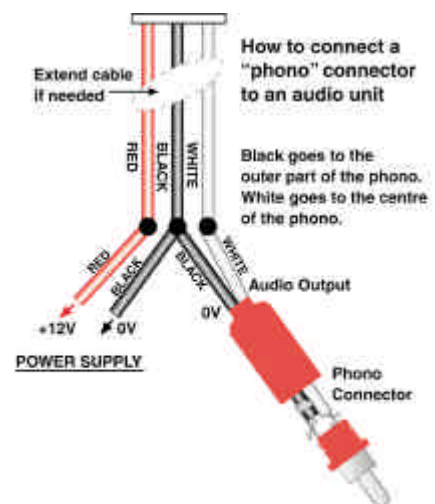

### _How to connect the CCT625 in the 3-wire mode._

The CCT625 has two connecting leads supplied with it. In the three-wire mode (recommended) please use the lead with the three wires, red, black and white.

The red wire is for 12V D.C and the black wire is for 0V or ground. The white wire carries the audio signal from the microphone in to the "audio-in" of the other equipment. The Black wire is used as a "common ground" for both the power and the audio signal.

You would typically connect the microphone as in the following diagram on the left.

If you are connecting an audio phono connector on to the cable you would connect the white core to the centre of the phono and the black core to the outer "ground" of the phono. Obviously use the colours that suit however you have extended the CCT625's short lead. The diagram shows the phono connector.

How to connect the CCT625 in the 2-wire mode.
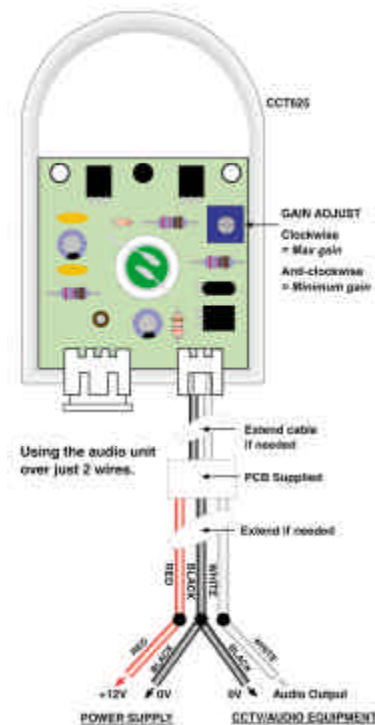
If you wanted to it is possible to use the CCT625 to send its sound signal down the same two wires that are used to carry power to it. This may be useful where there are not enough spare cores in a cable. This method requires the use of the additional PCB supplied with the microphone and is connected in the following diagram. Please note although this is a useful feature of the product the best performance is achieved in the three-wire method.

Adjusting the gain.

Inside the CCT625 is a small gain control pot. This can be used to increase the sensitivity of the microphone. Turning the control fully clockwise is maximum sensitivity. Turning the control fully anti-clock wise is minimum sensitivity. Please be aware that if the unit is set on maximum sensitivity then loud sounds may get distorted, you will need to set this up depending on the environment and some trial and error.

Fault Finding

The CCT625 is a pretty simple product and is therefore very reliable. If the product doesn't work you need to check all your connections are as per the instructions as you have probably got one of the connections incorrect.

Problem – Poor sound quality
Answer 1 – Please check you have all the connections correct.
Answer 2 – Make sure the cabling run is not too long, as the audio signal will deteriorate with length of cable run.
Answer 3 – Make sure you have a good quality cable to send your audio signal down.
Answer 4 – Too much background noise such as traffic will "drown out" speech as the microphone is not selective as to what it picks up!
Answer 5 – Please check you have the gain control adjusted correctly.

Problem - Buzzing noise on the audio
Answer 1 – Could be caused by using a poor quality or unregulated power supply. PSU MUST be regulated.
Answer 2 – Poor or bad ground (0v connection) for the audio circuit, you must wire as per the diagrams.

Problem – No sound
Answer 1 – Could be connected wrong please check.
Answer 2 – No power to the unit – please check.
Answer 3 – If you connect the power to the wrong leads of the CCT625 you may cause damage to it that is not covered under guarantee.

Specifications

Sensitivity / Gain	Adjustable
Frequency response	60 – 5500Hz
Output Impedance	600 ohms (approx)
Power Requirements	12V 20ma
Dimensions	H70 x W43 x D18 mm
Operating Temperature	0°C - 40°C

The specifications may change with out prior notice – Instructions are given in good faith as a guide only