

## SPECIFICATIONS

Camera	CT100	CT101
Operating voltage	12V dc	12V dc
Current consumption	50mA	60mA
Camera type	1/4" B&W CMOS	1/3" Colour CMOS
Lens	3.6mm	4.2mm
Viewing angle	78°	78°
Picture resolution	300 HTVL	300 HTVL
Minimum illumination	2 lux	4 lux
Video standard	CCIR	PAL
Video signal	1V pk-pk 75	1V pk-pk 75
Audio signal	2V pk-pk 47K	2V pk-pk 47K
Operating temperature	-10°C to +40°C	-10°C to +40°C
Weatherproofing	IP54	IP54
Dimensions	59W x 39H x 56D mm	59W x 39H x 56D mm

### Power Supply

Input voltage	230V 50Hz
Output voltage	12V dc
Output current	300mA
Weatherproofing	IP30 (Indoor use only)

### General

Cable type	4 Core alarm cable (7/0.2)
Connectors	Scart Plug (Perital / Euroconnector) 2.1mm Power socket (centre +ve) 6pin RJ11 Accessory plug
Package weight	0.9Kg
Package size	350 W x 62 H x 175 D mm
Approvals	CE directive 93/68/EEC EMC directive 89/336/EEC BS EN 50081-1 : 1992, BS EN 50082-1 : 1992 Low voltage directive 73/23/EEC

# INSTALLATION & USER INSTRUCTIONS

**CT100**  
*B&W MicroCam*

**CT101**  
*Colour MicroCam*



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\*Helpline call cost 60p/minute. Open 9am to 5pm, Mon to Fri.

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## SAFETY FIRST

Please read these instructions before attempting to operate the product.

**WARNING :** To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

**CAUTION : RISK OF ELECTRIC SHOCK :** Do not remove the cover from the power supply. There are no user serviceable parts inside. Refer servicing to qualified service personnel.

## FEATURES

- Mid Resolution B&W / Colour Weatherproof Camera with microphone
- Very small size for discreet use.
- Simple plug-&-go connections for a fast and simple installation.
- Full pan and tilt adjustment so that you can watch your desired area easily.
- Compatible with Voltek CCTV accessories so that you can build-up a comprehensive CCTV system.

## TROUBLESHOOTING

SYMPTOM	REMEDY
No camera picture	<ol style="list-style-type: none"><li>1. Check the power is switched on to the camera, TV and VCR.</li><li>2. Check the correct channels have been selected on the TV and VCR.</li><li>3. Check all connectors are pushed together correctly.</li><li>4. Check the lens cap has been removed.</li></ol>
Picture or audio interference	<ol style="list-style-type: none"><li>1. Check that the lead has been un-bundled</li><li>2. Check that the lead is not run along side any other cables.</li></ol>
Poor picture at night time	<ol style="list-style-type: none"><li>1. Check that you have a light illuminating the area. (street lights may not be adequate)</li><li>2. Check that the camera is not pointing at a light.</li></ol>

## HELPLINE

For technical assistance with any Voltek product please telephone ;

**Helpline : 09066 191 133** (Calls cost 60p/min. Lines open 9am to 5pm Mon to Fri)

To order spares or accessories for your Voltek camera please telephone :

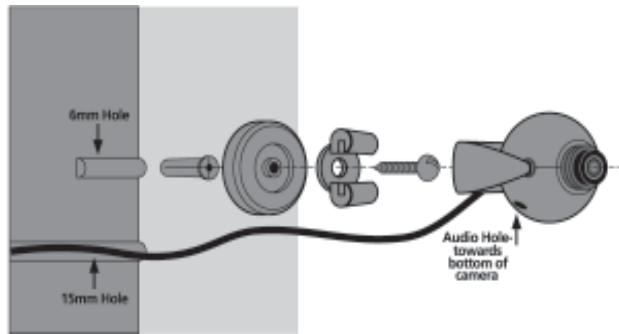
**Sales : 08707 454 971**

Accessories available include :

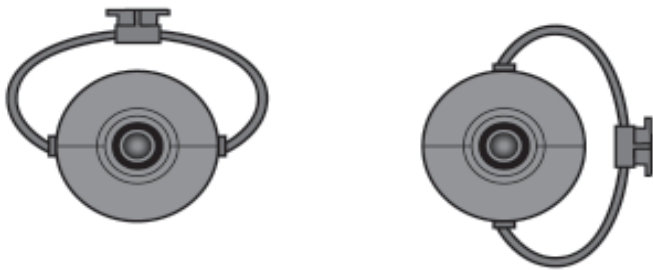
CT200	Four Way Camera Switcher
CT210	TV Modulator
CT230	Time & Date Generator
CT250	MicroCam 15 metre Extension Lead

## WARRANTY

This product has a twelve month manufacturers parts and labour warranty. In the unlikely event that you encounter a problem with this product, please telephone the Voltek helpline on 09066 191 133\*. Should the problem not be able to be resolved over the telephone it should be returned to the place of purchase or direct to Voltek.



The bracket can be attached to the camera in two different ways as shown.

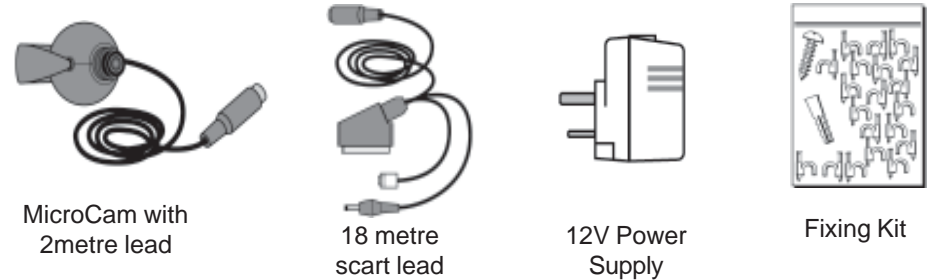


Use the cable clips provided to hold the cable in place. Please bear in mind the following points.

- Keep the cable away from other cables where possible to reduce the risk of picture and audio interference.
- Avoid laying the cable next to anything which runs hot which could burn the cable.
- If the cable is run along the ground, a protective covering must be used to prevent damage to the cable.

## PACKAGE CONTENTS

Please check and identify all the parts before proceeding with the installation.



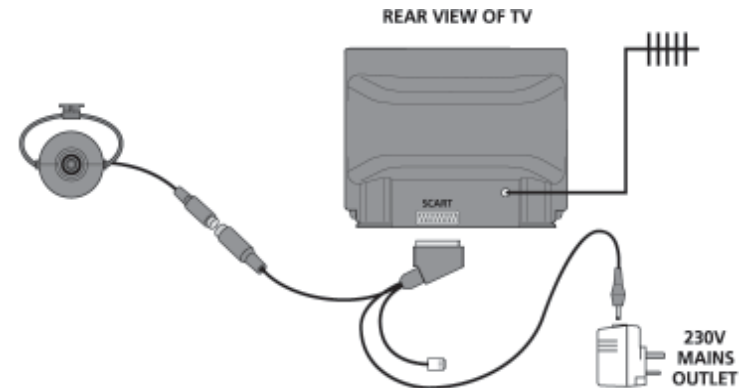
## CONNECTING THE CAMERA

Before you install the camera and the cables, we recommend that you temporarily connect the camera to your TV (television) or VCR (video cassette recorder) to help determine the best position for the camera.

The MicroCam will connect to a spare scart socket (also known as a peritel or Euro connector) on your TV or VCR.

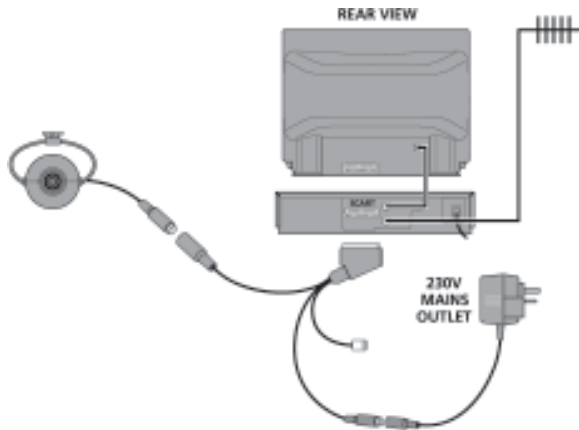
### CONNECTING DIRECT TO A TV

If you do not want to record the camera pictures on your VCR, simply connect the camera as shown.



## **CONNECTING TO A VCR**

To record the camera pictures, the camera should be connected to the VCR as shown.



## **USING A TV MODULATOR**

If you do not have a spare scart socket, you will need to purchase a CT210 TV Modulator (available from your MicroCam distributor or from the Voltek helpline) which will connect the MicroCam to the aerial input of your TV or VCR. Please consult the instructions provided with the TV Modulator for connection details and how to view the camera picture.

## **MULTIPLE CAMERA INSTALLATION**

There are two methods in which more than one camera may be used.

### **CT200 Four Camera Switcher**

This accessory will allow up to four cameras to be connected to the scart input of your TV or VCR. The screen will automatically switch from one camera to the next every few seconds and the user can also manually choose the camera to be viewed.

### **CT210 TV Modulator**

In this method, each camera will require a TV Modulator. The TV or VCR can then be tuned-in to the relevant camera frequencies. To view the camera pictures, simply press the appropriate button on your remote control. e.g. press channel 6 to view camera 1, press channel 7 to view camera 2, etc. Please note that only one camera picture at a time can be recorded on your VCR when connected in this method.

## **HOW TO VIEW THE CAMERA**

If the camera is connected to the scart socket of your TV or VCR, simply select the scart channel by pressing the appropriate button on your remote control. (there is no need to do any tuning)



## **INSTALLING THE CAMERA**

### **POSITIONING THE CAMERA**

The Microcam is suitable for indoor or outdoor use. Please bear in mind the following points when choosing a suitable position.

The camera must be positioned so that it will not point directly into the sun (sunrise or sunset) or any very bright light. This may cause damage to the camera.

The best viewing angle is achieved when mounted at approx 3 to 4 metres high, with the camera pointing downwards.

Avoid viewing areas where half the area is in bright sunlight and the other half is dark, such as in the shadow of a building. All types of cameras have difficulty in 'seeing' with such a large lux level variation.

Bear in mind not to position the camera too far away from the door entrances as you may not be able to hear any speech or sound.

Ensure a light is fitted near to the camera for night-time operation.

The camera cable supplied may be extended up to approximately 100 metres.

### **COMPLETING THE INSTALLATION**

Once the camera position is chosen and you have checked the view on the television set. The camera can be mounted to the wall as shown.