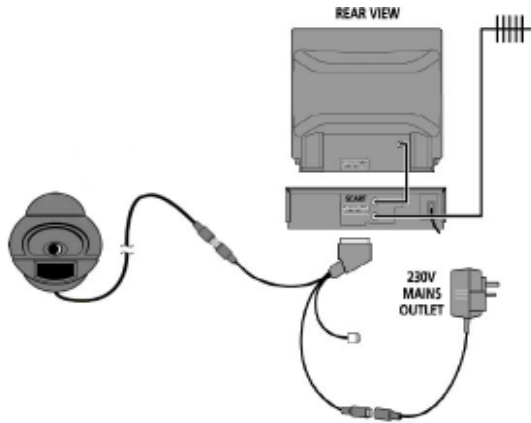


## CONNECTING TO A VCR

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 distributor or from the Voltek helpline) which will connect the CT105 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 CT105 Camera 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.

IR illumination will work for approximately 3 Metres distance. If you require viewing of a large area 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

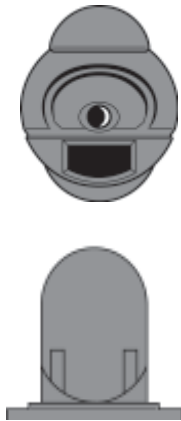
The camera can either be attached to a vertical wall, or placed on a table top using the optional bracket. Before final installation be sure to check the camera picture on the television to ensure it is covering the desired area.

### Wall Mounting

Remove the bracket from the camera and fix the bracket to the wall using two of the screws and fixing plugs supplied. The camera can now be pushed into the bracket.

### Table Top Mounting

Remove the wall mounting bracket from the camera, then feed the connecting cable through the hole of the table mounting bracket. The camera can then be pushed into 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

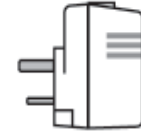
Please check and identify all the parts before proceeding with the installation.



MicroCam with  
2metre lead



18 metre  
scart lead



12V Power  
Supply



Fixing Kit

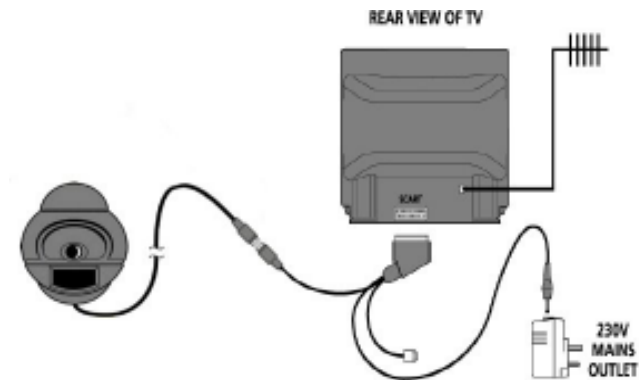
## CONNECTING THE CAMERA

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 CT105 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.



## CONTENTS

|   |   |
|---|---|
| <i>Safety First</i>                             | 1 |
| <i>Features</i>                                 | 1 |
| <i>Package Contents</i>                         | 2 |
| <i>Connecting The Camera</i>                    | 2 |
| <i>How To View The Camera</i>                   | 4 |
| <i>Installing The Camera</i>                    | 4 |
| <i>Troubleshooting Guide</i>                    | 6 |
| <i>Voltek Helpline and Ordering Accessories</i> | 6 |
| <i>Warranty</i>                                 | 6 |
| <i>Specifications</i>                           | 7 |

## 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 Camera with IR Illumination & 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></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 light illuminating the area. (Street lighting may not be adequate)</li><li>2. Check that the camera is not pointing in to 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 : (01282) 695500**

Accessories available include :

|       |                                  |
|-------|----------------------------------|
| CT200 | Four Way Camera Switcher         |
| CT210 | TV Modulator                     |
| CT230 | Time & Date Generator            |
| CT251 | SuperCam 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.

## SPECIFICATIONS

|                       |   |
|-----------------------|---|
| <b>Camera</b>         | <b>CT105</b>  |
| Operating voltage     | 12V dc  |
| Current consumption   | 150mA   |
| Camera type           | 1/4" B&W CMOS   |
| Lens                  | 3.6mm   |
| Viewing angle         | 78°   |
| Picture resolution    | 300 HTVL  |
| Minimum illumination  | 2 lux   |
| Video standard        | CCIR  |
| Video signal          | 1V pk-pk 75   |
| Audio signal          | 2V pk-pk 47K  |
| IR Illumination       | 3 Meters Max  |
| Operating temperature | -10°C to +40°C  |
| Weatherproofing       | IP54  |
| Dimensions            | 59W x 39H x 56D mm  |
| <b>Power Supply</b>   |   |
| Input voltage         | 230V 50Hz   |
| Output voltage        | 12V dc  |
| Output current        | 300mA   |
| Weatherproofing       | IP30 (Indoor use only)  |
| <b>General</b>        |   |
| Cable type            | 6 Core alarm cable (7/0.2)  |
| Connectors            | Scart Plug (Perital / Euroconnector)<br>2.1mm Power socket (centre +ve)<br>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<br>EMC directive 89/336/EEC<br>BS EN 50081-1 : 1992, BS EN 50082-1 : 1992<br>Low voltage directive 73/23/EEC |

# INSTALLATION & USER INSTRUCTIONS

## **CT105** *B&W Camera with IR Illumination*



39c Churchill Way, Lomeshaye Ind. Est., Nelson, Lancashire. BB9 6RT. England  
Tel ( 01282) 695500 Fax( 01282) 695511 Helpline 09066 191 133\*  
Email sales@voltek.co.uk Web site www.voltek.co.uk

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

Voltek reserves the right to change any product or specification without notice

© 2001 Voltek Automation Ltd. Issue 2

