

## FEATURES

- ◆ Very easy to use
- ◆ Works with most CCTV equipment
- ◆ Scart / Phono /BNC connections covered
- ◆ Supplied with a 300ma 12v PSU
- ◆ Quality cable in black or white
- ◆ 25 metre cable supplied



These dummy smoke detector camera kits can be installed, and up and running in minutes. There are four models in the range. The kits come with a dummy smoke detector with either a black & white 3.6mm covert camera (72° angle) or a 3.6mm colour camera (72° angle) installed, and the choice of black or white cable. All kits are supplied with connectors, power supply, 25 metres of cable and instructions. The universal connection kit allows connection to a monitor, television with scart socket, VCR, CCTV timelapse unit or DVR.



A multi-purpose connection lead is supplied, which makes connecting and powering a CCTV camera easy. Made from a quality composite video and audio cable with pre-fitted moulded connectors, installing this kit requires no special tools or soldering equipment. The video, audio and power are all carried through this one cable for simple easy installation. Several connectors and converters are supplied with the kit to enable the maximum number of different cameras, monitors and VCRs to be connected together with ease. Ideal for connecting a single CCTV camera to a suitable TV, VCR, Monitor or DVR.

### **Camera Systems Covered by these Instructions**

- SYS170 B & W 3.6mm camera in dummy smoke detector with **white** cable
- SYS171 B & W 3.6mm camera in dummy smoke detector with **black** cable
- SYS172 Colour 3.7mm camera in dummy smoke detector with **white** cable
- SYS173 Colour 3.7mm camera in dummy smoke detector with **black** cable

## GETTING STARTED

The cable has two distinct ends. One is the camera end and one is the monitor/VCR end. You can recognise the monitor end as this has a D.C POWER SOCKET that allows the PSU to be plugged into it. The camera end of the cable has a D.C PLUG that plugs into most 12V types of CCTV camera.

### 1- Positioning your Smoke Camera.

As with most CCD cameras, avoid directing the camera at any object or surface, which contains 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 just 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.

### 2- Running out the cable.

Before you run out the cable make sure that you have correctly identified the camera and monitor ends to save wasting time and effort turning the cable around.

### 3- Connecting the cable to the camera.

The smoke camera range come with a fly lead for power, video and audio out. To reduce installation time the video out lead is terminated into a male BNC connector. A BNC to phono adaptor is supplied to use with the cable supplied. The audio connection is provided via a phono socket.

### 4- Connecting the cable to the monitor

On the back of the monitor there may be one of the following types of connection: - Phono, BNC or Scart. The yellow Phono connector is for the video signal. The white Phono connector is for the audio connection. Using the connectors supplied, you can connect the cable to any of these types of input.

**5- Powering the camera.**

The PSU included with the kit is only suitable for 12V camera systems that have a total load of less than 250mA. The maximum power consumption of the smoke camera is 200mA. Once you are confident that the camera and monitor are connected correctly, you can plug in the PSU and power up the system. On CCTV monitors, a picture should instantly appear when you power up the system.

You can of course connect the smoke camera to a switcher, quad or DVR before the monitor as well as directly to a monitor. If you wish to do this, it is always recommended that you initially set up the camera ONLY to the monitor to prove that they are connected and set up correctly. Once you have proved they are working satisfactorily, you can proceed to installing the smoke camera with any other equipment. If you fail to get a picture after you introduce other CCTV equipment such as a switcher, quad, DVR or VCR, then go back to basics and connect the smoke 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.

**Scart connections.**

To view the camera picture on a TV with a Scart input, you must first set the TV to its 'AV' channel. Often this is a blue screen with no input or connection to its Scart. Some TVs and videos have an "AV" button on the remote control handset to select the AV channel. If this is not the case, try pressing the 0 button then use the channel down button and see if the AV channel appears. Failing this, refer to the TV's instructions for selecting the AV channel. When using the kit with a domestic TV and VCR, you must always start with it connected to the TV's Scart input first so you can prove the camera and system is working before introducing another device such as a VCR.

**To connect a camera to a domestic VCR to record and play back through a domestic TV.**

The connection kit connects into the video input on the VCR by a Phono or Scart input on the actual VCR. The VCR is then connected to the TV via the RF output as normal (aerial type connector). To record a picture the VCR is set to its AV channel and the record button is pressed. To watch the camera pictures live or a recording, the TV must be switched to the channel that has been set up for the VCR. (For example whichever channel you would normally use to play back a pre-recorded tape, such as a film through the TV).

**Mounting the smoke detector camera**

The smoke detector camera is generally ceiling mounted. This allows a 360° lateral movement and approximately a 90° up and down adjustment.

**Dummy Smoke Detector Camera Specifications**

Camera Specification	SYS170	SYS171	SYS172	SYS173
Image Sensor	1/3" B&W CCD		1/4" Colour CCD	
Image Output	1V <sub>pk-pk</sub> 75Ω		1V <sub>pk-pk</sub> 75Ω	
Resolution	420TVL min		420TVL min	
Min Illumination	0.2 Lux, F1.4		.9 Lux, F1.4	
Input Voltage Range	12V DC		12V DC	
Power Consumption	120 mA		200 mA	
Lens	3.6 board lens (72°)		3.6 board lens (72°)	
Description	Dummy smoke detector		Dummy smoke detector	
Fly Lead	Power, Video & Audio		Power, Video & Audio	
Size, Dia x H	130mm x 60mm		130mm x 60mm	
Cable 25 metres	<b>White</b>	<b>Black</b>	<b>White</b>	<b>Black</b>

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