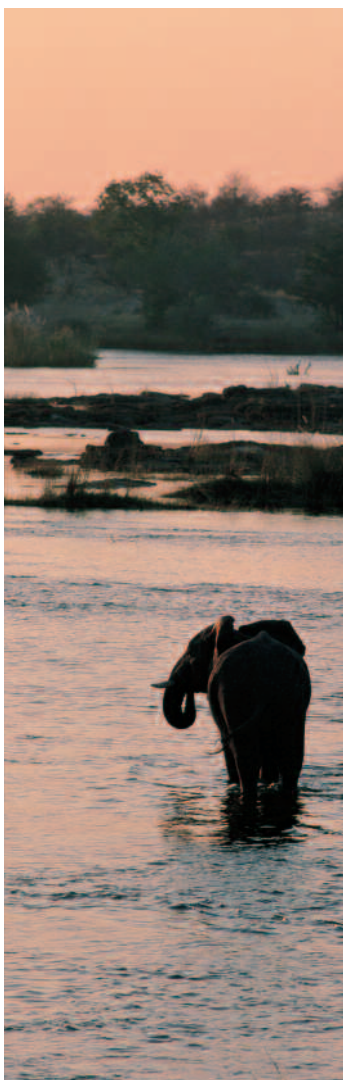




**40950 CMOS Wireless Telecam  
Instruction Guide**



## Introduction

Fitted directly to the telescope in place of a conventional viewing eyepiece, the CMOS Wireless Telecam transmits high magnification real-time images from HR, ES & GS 'scopes directly to a TV or PC Notebook fitted with an analogue TV card. As such it provides the opportunity to show real-time footage to groups in public spaces as well as offering the visually impaired an easier way of viewing through a telescope.

The unit features cable or wireless connection for flexibility in the positioning of the telescope in a hide or viewing area. Images relayed to a TV can be recorded directly to video while images relayed to a PC can be recorded if the TV card supports this option.

## Equipment

CMOS Wireless Telecam  
 Relay lens 36mm  
 Transmitting antenna [effective distance: 15m]  
 Receiving antenna  
 Extension cable for receiving antenna + duplex switch and mounting screws  
 Cable for direct connect Video out jack [black] ~ Video in jack [yellow]  
 9V battery [For CMOS unit]  
 7.5V DC Adapter

## Specifications

Image Device: CMOS 300,000 pixels  
 TV connection: Wireless Frequency 210.24Mhz PAL B [Channels 8,9 or 10]  
 Direct connect Video out jack [black] ~ Video in jack [yellow]  
 DC 9V in jack  
 Dimensions: [excluding antenna] mm: 110x110x70  
 Weight: [including battery]: 237g



## Instructions for Use

### 1. Preparing the CMOS Wireless Telecam

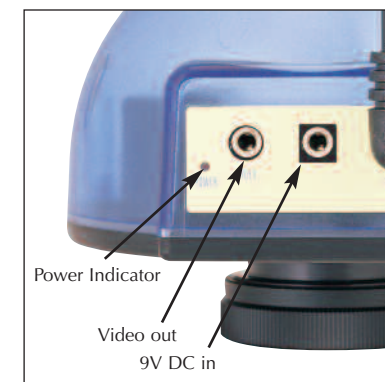
- Fitting the battery: The unit uses a 9V battery which is fitted in an underside compartment. To fit the battery - remove cover plate using a cross headed screwdriver, insert and connect battery then replace cover plate and tighten screw. Power can also be supplied using the 9V DC Adapter supplied.
- To test the unit is working slide the yellow switch on the underside of the unit to the 'ON' position. The POWER light will indicate red if the unit is working.



### 2. Fitting the CMOS Wireless Telecam to an Opticron Telescope

The CMOS Wireless Telecam fits directly to the following Opticron Telescopes<sup>1</sup>: HR 66 GA, HR 80 GA, ES 80, ES 100, IMAGIC 65, IMAGIC 80. The unit can also be used with IS 50, IS 60 and MM2 52 models on modification and to special order only.

- Connect the Telescope body to a suitable tripod or mount.
- Remove viewing eyepiece if fitted.
- Connect the CMOS Wireless Telecam to the Telescope via the collar thread which screws directly onto the bigger of the two external [exposed] threads [Size: M 41.5 x 1.1 - 6e]



<sup>1</sup>Suitability is subject to change without prior notification although advice will be given in writing wherever possible.

### 3. Making a connection from the CMOS Wireless Telecam to a Television or PC TV card

The 40950 CMOS Wireless Telecam has two modes of connection to a TV

- Wireless - Frequency 210.24Mhz PAL B [Channels 8,9 or 10]
  - Direct connect Video out jack [black] ~ Video in jack [yellow]
- Wireless Frequency 210.24Mhz PAL B [Channels 8,9 or 10]
    - Attach fixed length black antenna into socket marked ANTENNA on CMOS unit.
    - Attach telescopic antenna to socket on the TV. If you wish to retain an existing ariel connection while using the TV use the duplex switch supplied.
    - Manually tune TV to Channel 210.24 Mhz [Channels 8,9 or 10]

Note. If you experience audio disturbance using this method use the MUTE switch on the TV audio.
  - Direct connect Video out jack [black] ~ Video in jack [yellow]
    - Connect Video out jack [black] to VIDEO socket on CMOS unit.
    - Connect Video in jack [yellow] to VIDEO socket on TV.
    - Tune the TV to AV1 or AV2.