

Our general purpose shielded camera system has been used in field strengths in excess of 1,000 V/m. It is supplied with full remote control as standard. The SCOUT Camera systems have a wide range of options and are supported by a comprehensive range of accessories.



The SCOUT Camera is a comprehensive, fibre optically coupled and electro-magnetically shielded camera system. It offers full remote control for focus/zoom/pan & tilt operation. The high performance camera and lens combination provides excellent picture clarity, color rendition and low light capability. The SCOUT Camera has become the industry recognized standard for EM shielded cameras and adds value to your EMC testing environment by improving both efficiency and safety.

We have now created two products, SCOUT Standard and SCOUT High-Resolution. Both versions offer very high performance and are easy to use.

SYSTEM FEATURES

- Color Camera, PAL or NTSC
- Remote Control Focus/Zoom/Pan&Tilt
- Fibre Optically Coupled
- RF Immunity >200V/m up to 18 GHz
- Standard & High resolution options
- Automatic Light Level Compensation
- Battery or Mains Powered Camera
- Remote Indication of Battery Status
- Optional Audio Monitor
- Optical Heavy Duty Fibre Optic Cable
- Zoom lens options
- Tripod or Wall mountable

APPLICATIONS

- EMC Test Chambers, TEM and GTEM Cells
- EUT monitoring in electrically noisy environments
- Visual monitoring of displays
- Safety monitoring of equipment for catastrophic failure
- Situations requiring full remote control of Camera Head zoom/focus/pan&tilt
- Safe monitoring of "Personnel Hazard" high RF fields

SYSTEM CONFIGURATION: A complete SCOUT Camera system consists of the following items:

CAMERA HEAD:

The SCOUT Camera Head contains a color CCD camera and motorised zoom & focus lens controlled from the Receiver Unit. The lens has an Auto Iris facility which automatically compensates for variations in ambient light levels. The color video signal from the camera is converted into an optical signal and transmitted to the Receiver Unit via fibre optic cable. The Camera Head also receives and decodes the control signals sent from the Receiver Unit. A control circuit drives the Lens Zoom/Focus and also the Pan&Tilt Head via a screened and filtered cable. RF Immunity is provided by an enclosure design which features conductive gaskets and specially coated glass. As a result, the Camera Head can withstand fields in excess of 200V/m at frequencies up to and above 1GHz with no degradation of picture quality. SCOUT systems are regularly used in fields in excess of 1000V/m at up to 18GHz.

PAN & TILT HEAD:

The Camera Head may be mounted on the Pan&Tilt head, which allows the Camera to be pivoted in the horizontal and vertical axes. The Pan&Tilt Head is mounted on an optional Wall Mounted Bracket or Tripod.



RECEIVER UNIT:

The Receiver Unit decodes the optical signal from the Camera Head, and provides two 75ohm video level outputs. The Receiver Unit also provides the control facilities for the Camera Head. A joystick controls the pan and tilt function, and a second joystick operates the zoom and focus of the camera lens. The Camera Head can be switched on and off from the Receiver Unit and the battery status can also be checked.

BATTERY PACK

The Shielded Battery Pack is connected to the Camera Head via a screened and filtered cable, and provides continual operation for more than 14 hours. Additional packs may be used to continue operation whilst the spare pack is recharged. Alternatively, a mains power supply may be specified for permanent wall mounted installations.

FIBRE OPTIC CABLE

The Fibre Optic Cable may be supplied on a Cable Management Reel for ease of deployment and rewinding. The SCOUT cable consists of two fibres in a duplex format: one for the video signal, and a second for the control signal. A heavy duty cable may be specified where both fibres are combined into a single cable for ruggedness.

ACCESSORIES

A range of Video Monitors are available for use with the SCOUT. These and the Camera Head are available in PAL or NTSC formats. A Tripod is offered to support the Camera Head. Other options including Multi-Camera Systems, Rain Cover, Integrated Audio Monitor, etc. are available.

SCOUT CCTV FOL SPECIFICATIONS

CAMERA HEAD	High Resolution	Standard Resolution
Sensor Type	1/3" Color CCD	1/3" Color CCD
Number of Picture Elements (pixels) PAL	753 (H) x 582 (V)	512 (H) x 582 (V)
NTSC	771 (H) x 492 (V)	512 (H) x 492 (V)
Light Sensitivity	3.3 Lux	1.2 Lux
Horizontal Resolution	470 TV Lines	330 TV Lines
Weight	3.1kg/ 6.8lbs, excl. Pan & Tilt head	
Dimensions (L x W x H)	330mm x 120mm x 126mm	
Fibre Optic Connectors	Multimode ST	
LENS		
Type	Motorised Zoom and Focus with Automatic Iris	
Maximum Aperture Ratio	1:1.8	
Focal Length: Standard	12.5mm to 75mm (6:1)	8mm to 48mm (6:1)
Optional	12mm to 120mm (10:1)	
Object Distance:	1m - ∞	
PAN & TILT		
Loading Capacity	3.5kg	
Pan Angle (Tilt Angle)	360° (45° up and 80° down)	
BATTERY PACK		
Battery Type	Lead Acid	
Battery Operating Time	>14 hours continuous	
Battery Dimensions (L x W x H)	270mm x 200mm x 110mm	
RECEIVER UNIT		
Fibre Optic Connectors	Multimode ST	
Video Output Connector	Two outputs, 75 Ω BNC	
Power Supply	120VAC or 230VAC, 50/60Hz	
Automatic Gain Control Range	18dB	