



The SCOUT 30 Camera is a low cost, fibre optically coupled, visual monitoring system. The camera and fixed focus lens combination provide good quality images in the low light conditions which are typical of EMC facilities. The use of fibre optic coupling provides inherent immunity to interference and ensures no conduction of interference into or out of critical areas. The SCOUT 30 Camera system has a wide range of options, and is supported by a comprehensive range of accessories.

SYSTEM FEATURES

- Color Camera, PAL or NTSC
- Manual Focus and Iris Control
- Fibre Optically Coupled
- RF Immunity to 30V/m
- Battery Powered Camera or external 12V source
- Range of Lens Focal Lengths
- Medium resolution camera
- Low cost

APPLICATIONS

- Small to Medium EMC Test Chambers
- GTEM and TEM Cells
- Electrically noisy environments to >30V/m
- Visual monitoring of displays
- Safety monitoring of equipment for catastrophic failure
- General "Personnel Safety Monitoring" in high RF fields

SYSTEM CONFIGURATION:

The SCOUT 30 Camera System consists of the following items:

CAMERA HEAD: The SCOUT 30 Camera Head contains a color CCD camera and lens which has manually controlled Iris and Focus. The camera is sensitive enough to provide high resolution images even in low ambient lighting levels. A number of lenses are available with differing focal lengths, allowing the user to select the most appropriate field-of-view for a particular application.



The color video signal from the camera is converted into an optical signal within the Camera Head. This is transmitted to the Receiver via a Fibre Optic Cable. The Camera Head uses conductive gaskets and a coated window to provide immunity to RF. As a result, the Camera Head can withstand fields in excess of 30V/m at frequencies up to and above 1GHz with no degradation of picture quality.

RECEIVER UNIT: The Receiver Unit decodes the optical signal from the Camera Head, and provides a 1Vpp standard 75ohm video output.

BATTERY PACK: The Battery Pack is connected to the Camera Head via a screened and filtered cable, and provides continual operation for more than eight hours. Additional Battery Packs may be used to continue operation while the spare pack is recharged.

FIBRE OPTIC CABLE: The Fibre Optic Cable may be supplied in a variety of lengths to suit the application. An optional Cable Management Reel provides ease of deployment and rewinding.

ACCESSORIES: A range of Video Monitors are available for use with the SCOUT 30. These, and the Camera Head, are available in PAL or NTSC formats. A Mini Tripod is provided to support the Camera Head.

SCOUT 30 CAMERA SPECIFICATIONS

CAMERA HEAD		
Sensor Type	1/3" Color CCD	
Number of Picture Elements (pixels) PAL	512 (H) x 582 (V)	
NTSC	512 (H) x 492 (V)	
Light Sensitivity	1.5 Lux at F1.2	
Horizontal Resolution	330 TV Lines	
Weight	1.6kg/ 3.5lbs	
Dimensions (L x W x H)	250mm x 80mm x 75mm	
Fibre Optic Connectors	Multimode ST	
LENS		
Type	Manual Focus and Iris	
Maximum Aperture Ratio	1:1.8	
Focal Length & Object Distance	25mm	0.3m - ∞
	12mm (Standard)	0.2m - ∞
	6mm	0.1m - ∞
	3.6mm	0.2m - ∞
BATTERY PACK		
Battery Type	Lead Acid	
Battery Operating Time	>8 hours continuous	
Dimensions (L x W x H)	160mm x 160mm x 90mm	
RECEIVER MODULE		
Fibre Optic Connectors	Multimode ST	
Video Output Connector	75 Ω BNC	
Power Supply	24VAC, 50/60Hz	
Automatic Gain Control Range	18dB	
Dimensions (L x W x H)	115mm x 75mm x 25mm	
Mains Adaptor	240VAC to 24VAC	