Mini Scout

The Mini SCOUT Camera is a high resolution, small size, fibre optically coupled and electromagnetically shielded camera system. It is most suitable for use in high field environments or where high picture resolution and small size is a equirement. The re-chargeable battery pack has been accommodated into the Camera Head resulting in a very compact camera with no trailing power leads. A range of user-changeable lens options is available to allow the camera to be used in a wide range of situations. The lack of external cabling improves EMI hardness and minimises field perturbation. The Mini-SCOUT Camera system has a wide range of options, and is supported by a comprehensive range of accessories.

SYSTEM FEATURES

- Miniature camera
- High Resolution Color Camera PAL or NTSC
- Manual Focus and Iris Control
- Fibre Optically Coupled
- RF Immunity to 200V/m up to 1 GHz
- Integral Battery Pack
- Range of Focal Length Lenses
- 76mm Diameter Housing *

APPLICATIONS

- GTEM and TEM cells
- Confined areas such as Aircraft Cockpits and Vehicle Dashboards
- Electrically noisy environments
- Visual monitoring of displays
- Safety monitoring of equipment for catastrophic failure
- Close and wide angle monitoring with high resolution

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

CAMERA HEAD

The Mini SCOUT Camera Head contains a high resolution color CCD camera. An integral battery pack means that there are no electrical cables disturbing the field. The color video signal from the camera is converted into an optical signal within the Camera Head. The Camera Head uses conductive gaskets and a specially coated window to provide immunity to RF. As a result, it can withstand fields in excess of 200V/m at frequencies up to and above 1GHz with no degradation of picture quality. Mini SCOUT systems have been successfully operated in field strengths of 1kV/m at up to 35GHz. At only 76mm* in diameter, the Camera Head is very compact and is ideal for use in confined areas without compromising picture quality or electrical shielding.

The lens cover may be detached by the user to allow setting of the lens focus and iris controls. 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.

RECEIVER UNIT: The Receiver Unit decodes the optical signal back into to a 75ohm video level signal. It contains an Automatic Gain Control circuit which accommodates any loss in the optical link with no degradation of picture quality.

* Micro SCOUT is available to special order and has a 35mm diameter housing.

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BATTERY PACK: The Battery Pack provides continual operation for more than four hours. Two Battery Packs are provided with the system allowing continued operation while the spare Battery Pack is re-charged.

FIBRE OPTIC CABLE: The Fibre Optic Cable may be supplied on a Cable Management Reel for ease of deployment and rewinding.

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

MINI SCOUT CCTV FOL SPECIFICATIONS

CAMERA HEAD		
Sensor Type		0.5” Color CCD
Number of Picture Elements (pixels) PAL		752 (H) x 582 (V)
	NTSC	768 (H) x 494 (V)
Light Sensitivity		4.5 Lux at F1.2
Horizontal Resolution	PAL	460 TV Lines
	NTSC	470 TV Lines
Weight		1.6kg/3.5lbs
Length x Diameter		230mm x 76mm
Fibre Optic Connectors		Multimode ST
LENS		
Type		Manual Focus, Manual Iris
Maximum Aperture Ratio		1:1.8
Focal Length		3.6mm (Wide Angle)
		6.0mm (Telephoto Standard)
		12mm (Telephoto Standard)
Object Distance:		0.3m - ∞
BATTERY PACK		
Battery Type		14.4V, Nickel Cadmium
Battery Operating Time		>4 hours continuous
Dimensions		Internal to Camera Head
RECEIVER MODULE		
Fibre Optic Connectors		Multimode ST
Video Output Connector		75 Ω BNC
Power Supply		120V or 240VAC, 50/60Hz
Automatic Gain Control Range		18dB