NAVTECH SYSTEMS Ltd

Leading Providers of Real Time GPS Encoding and Microwave Link Systems

ROVER

COFDM wireless video link system

The ***Rover*** system provides an exceptionally stable wireless video transmission platform in high multi-path environments. Using the latest COFDM modulation techniques and diversity reception principles, ***Rover*** delivers high quality, low latency video images in conditions where traditional analogue FM methods fail. Low bandwidth ensures spectral efficiency and greatly increases receiver sensitivity compared with conventional analogue techniques.

Rover is suitable for a wide range of applications in both the security and video-assist fields. It can be used in body worn, mobile and temporary fixed installations. Low current consumption allows for efficient battery operation.

Various power outputs and frequencies are available catering for variety of applications and longer transmission ranges. A rotary switch allows simple selection of up to sixteen settings, these being any combination of frequency and COFDM parameters. DC power, video input status, signal strength and lock are all clearly shown by LED indicators and a simple meter.

Standard transmitter models are available with 100mW or 1 Watt power output. Higher powers are available if required.

Reception is via the latest 2 channel diversity method to provide optimum performance. Receiver options include the hand held ***"Director"*** with integrated video monitor and battery for truly portable applications.

Standard lightweight receivers with attachment brackets for pole or mast mounting enable optimum location for the best signal reception.

A selection of antenna configurations provide for a truly versatile video link system.

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Technical Details

Transmitter

Standard output	100mW or 1W or with PA
Power	12 VDC (9-36 optional)
Current	100mW = 500mA, 1W <1.5A
RF o/p	SMA
Dimensions	140 x 62 x 35mm (100mW)
Weight	0.45Kg
Video input	Composite via BNC

Frequencies

L Band : 1.15 - 1.4 GHz
S Band : 2.28 - 2.485 GHz
C Band : 5.725 - 5.850 GHz
Others by request

Receiver

RF Inputs	Dual Diversity MRC RF via N-types
O/P	Composite Video via BNC
Power	12V dc (9-36 optional)
Current	600mA @ 12 VDC
Dimensions	260 x 130 x 55mm
Weight	1.6Kg

Bandwidth `	Standard 8 MHz Narrow 2 MHz Ultra narrow 1 MHz
Compression	JPEG2000 - MPEG4 -H264
Modulation	QPSK or 16-QA

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