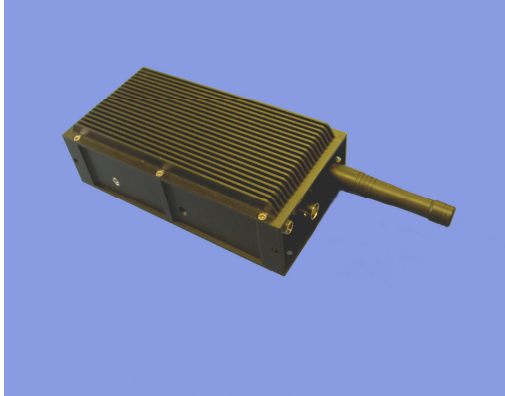


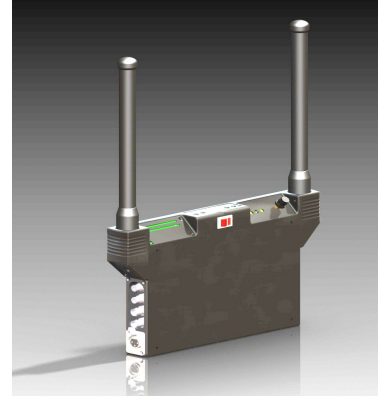
Navtech Systems Video Links

ROVER - UAV

COFDM Video Down Link



1 watt Transmitter



2 channel Diversity Receiver

Product Description

The **Rover-UAV** 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-UAV** delivers high quality, low latency video images in conditions where traditional analogue FM methods fail. Ultra low bandwidth options ensure spectral efficiency, greatly increasing receiver sensitivity compared with conventional analogue techniques.

Rover-UAV is suitable for a wide range of applications in both the security and low cost air to ground video down or up links. It can be used in pilotless aircraft or remote controlled terrestrial vehicles in both mobile and fixed installations. Its low current consumption allows for efficient battery operation.

Various power outputs and frequencies are available catering for longer transmission ranges. A rotary channel switch allows simple selection of up to sixteen settings, these being any combination of frequency and COFDM parameters. LED indicators and a signal level meter provide the user with a clear view of DC power and receiver tuning lock status.

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

2 channel MRC diversity receivers have the option of hand held portable units with integrated video monitor and battery for truly portable applications.

Standard pole mounted receivers provide for optimum location for the best signal reception

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



Navtech Systems Limited

Sulby, Nr. Welford, Northamptonshire. NN6 6EZ. UK.

Telephone: +44 (0)1858 880 857 Fax: +44 (0)1858 880 859

E-mail: sales@navtechsystems.co.uk

Web: www.navtechsystems.co.uk

Technical Details

Transmitter:

Standard output: 1W
Power : 12 VDC
Current : 1W <1.5A
RF o/p : SMA
Dimensions : 165 mm x 80mm x 50 mm
Weight : 0.70kg
Video input : Composite via BNC

Receiver:

RF Inputs : Dual Diversity MRC RF via N-types
O/P : Composite Video via BNC
Power : 12 VDC
Current : 600mA @ 12 VDC
Dimensions : 260mm x 110mm x 50 mm
Weight : 1.6 kg

Frequencies:

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

Bandwidth : Standard 8 MHz Narrow 2 MHz
Ultra Narrow <1 MHz
Compression : JPEG2000 - MPEG4 -H264
Modulation : QPSK or 16-QAM

“Rover Director” Receiver Option:

With integrated 7” LCD monitor and battery pack

The **Rover Director** is a portable, 2 channel diversity receiver with internal battery and facility for an optional V lock battery to be fitted on the rear. The integrated 7” high brightness video monitor shows the received images in full colour. A standard composite video output provides for video distribution to other monitors as required.

An optional visor enables outside operation in bright sunlight.

With fully charged batteries the operation time between charges is in excess of five hours, providing for a truly versatile video monitoring facility at modest cost and uncomplicated operation.



Rover Director



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