

SOLO4 – MicroVue Receive Case

COFDM – Video, Audio Telemetry and IP Products

June 2011 Data Sheet

The most important thing we build is trust

COBHAM



The Cobham Tactical Communications and Surveillance MicroVue is a briefcase receiver/recorder package for tactical video surveillance operations. Additionally, it can be used as a remote video receiver for UAV and UGV applications.

The MicroVue combines a Cobham SOLO Receiver with two diversity down-converters and two antennae into one rapidly-deployable briefcase kit. An 8.4" colour LCD screen is mounted in the lid, while a comprehensive touch screen control panel is supplied for control and set up.

The MicroVue has Cobham technology at its core and is supplied with AC, DC and internal battery power. For unusual installations, the internal antennae and down-converters can be bypassed and external ones fitted instead. As standard, the MicroVue is supplied without a recorder, but can optionally be fitted with 160GB hard disk recorder, or an alternative (available on request).

The Cobham Tactical Communications and Surveillance narrow bandwidth modulation offers unprecedented spectrum efficiency, while also increasing the system sensitivity and, therefore, range. The MicroVue has comprehensive On Screen Display diagnostic capability to show link quality and spectrum and is equipped with video, two voice and data channels. Security of transmission is ensured by the use of Standard ABS encryption or, for greater security, the optional AES128- or 256-bit encryption algorithms.

Features:

- Comprehensive demodulation 8/7/6/2.5 ,1.25MHz and 625Khz (optional)
Maximum ratio combining antenna diversity for fade and multipath elimination
- Lid mounted antennae
- 8.4" colour monitor in lid
- AC, DC, internal battery operation
- Batteries recharged internally
- Internal recorders available as options
Comprehensive On Screen Display (OSD) diagnostics for link analysis, including spectrum analyser
- 5.5" touch screen in base for device configuration
- Headphone output
- Internal AES128 or 256 encryption
- Optional 160GB hard disk recorder with playback on lid monitor

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Specification:

Input

RF Input 1	Antenna 1
RF Input 2	Antenna 2
UHF RF Input 3 (Bypass)	TNC
UHF RF Input 4 (Bypass)	TNC
Power (12V DC)	Lemo
Power (mains)	IEC
Composite Video	BNC
PC Control Input	Lemo
Audio Input	Phono

Output

Composite Video	BNC
PTZ Control and Umbilical Video (optional)	Lemo
Line Level Audio	Phono
Headphone Audio (with volume control)	Audio Jack
Control Output	Lemo
Chaining Data	Lemo
	Lemo

Antennae

4dBi Colinear (supplied)	TNC Mount
RF Bypass (user's own)	TNC Input

RF

Frequency Bands	4500 to 5000MHz, 2170 to 2500MHz, 1000 to 1500MHz, 420 to 470MHz (340 to 470MHz with external antenna) 340 to 390MHz (340 to 470MHz with external antenna)
Tuning Steps	250KHz

Modulation

Receive Modes Narrowband:	
Mode 1 - Short Range	2.5MHz, 16QAM, FEC2/3, Sensitivity -95dBm
Mode 2 - Normal Range	2.5MHz, QPSK, FEC2/3, Sensitivity -99dBm
Mode 3 - Long Range	2.5MHz, QPSK, FEC1/3, Sensitivity -102dBm
Mode 4 - Ultra Long Range	1.25MHz, QPSK, FEC1/3, 600kb/s, Sensitivity -105dBm (optional)
Receive Modes Wideband:	
DVB-T COFDM Receive	Bandwidth 8/7/6MHz
FEC	2/3, 5/6, 7/8

Video

Line Standard	PAL/NTSC
Resolution	704, 528, 480, 352
Coding Mode	MPEG2 or MPEG4 (optional)
Delay	43ms to 1sec depending on mode
Frame Rate	Full/Half/Quarter/Eighth (optional)

Audio

Line Level Output	Phono
Sample Rate	32KHz, 16KHz, 8KHz or MPEG L2 48KHz
Bits per Sample	12 or 8 bit

Data Interface

RS232 Data Output	1K2 to 115K2 baud switchable
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Encryption

Format	ABS (standard) AES128/256 selectable (optional)
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Control

Remote Control	RS232 Control from PC GUI Application
Touch Screen Control	All features Backlight off selectable to minimise light emission
On Screen Display	Spectrum, RX SNR, RX Power

Physical

Dimension	L 350mm, W 260mm, H 160mm
Weight	5kg

Power

AC Input (8A fused)	110/240V
DC Input (8A fused)	11 to 16V 36W
Battery Backup (internal fuse)	3 hours operation

Environment

Operating Temperature	-10 to +50 deg C (not charging batteries)
Operating -Temperature	+10 to +40 deg C (charging batteries)
Storage Temperature	-20 to +60 deg C

Accessories Supplied

- 1 x Lead, 2 x Phono - 2 x Phono 1m
- 1 x RS232 Cable Lemo-DSUB9 3m
- 1 x BNC Video Lead 3m
- 1 x MicroVue External 12V DC In
- 1 x MicroVue/Solcon External Control Cable (Lemo to Lemo)
- 1 x MicroVue/Solcon External Control Cable (Lemo to Hirose)
- 1 x MicroVue Cable Carry Case
- 1 x MicroVue DVR Carry Case (DVR optional)

Product Code:

SOL4MIV-450500 - SOL4MIV-310340 - SOL4MIV-200250 - SOL4MIV-100150 - SOL4MIV-058067 - SOL4MIV-034047

RECORDER OPTIONS: SOL4DVR

SOL4DVR – DIGITAL RECORDER SPECIFICATIONS

Scalable motion JPEG compression
Analogue video and Stereo Audio I/P
Analogue video and Stereo Audio O/P for live view and playback
550 TV lines
720 x 576 (PAL) – 720 x 486 (NTSC)
Time/Date Stamp and Character Display
Time Lapse
Loop Record capability
USB file download
Internal 160Gb HDD
Solid state memory option

For further information please contact:

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