

SOLO4 – MicroVue Commander Receive Case

COFDM – Video, Audio Telemetry and IP Products

September 2011 Data Sheet

The most important thing we build is trust

COBHAM

The MicroVue Commander is a briefcase receiver/recorder package for tactical video surveillance operations, incorporating a PTZ transmit control function. The MicroVue Commander is designed to be used in conjunction with the ClearCam deployable camera in scenarios where remotely deployed PTZ cameras are required. It can also control standard Visca and Pelco cameras via a 'domo' telemetry receiver. The MicroVue combines a Cobham Surveillance SOLO Receiver with two diversity down converters and two antennae, with a telemetry radio into one rapidly deployable briefcase kit.

An 8.4" colour LCD screen is mounted in the lid. The MicroVue is supplied with comprehensive touch screen control panel for control and setup, as well as AC, DC and internal battery power. For unusual installations, the internal antennae and down converters can be bypassed and external antennae and down converters fitted.

The built in PTZ control panel includes all the usual PTZ functions, including 4 channel camera select, pan, tilt and zoom.

As standard, the Cobham Surveillance MicroVue is supplied without a recorder, but can optionally be fitted with an 160Gb hard disk recorder. Other recorders are available on request.

The Cobham TCS 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 AES encryption or, for greater security, the optional AES128- or 256-bit encryption algorithms.

Features:

- Comprehensive Demodulation 8 / 7 / 6 / 2.5 and 1.25MHz (optional)
- Maximum Ratio Combining antenna diversity for fade and multipath elimination
- Lid mounted antennae
- 8.4" colour monitor in lid
- Built in telemetry radio and PTZ control panel for remote camera control
- 110V and 240V AC, DC and 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 AES 128 or 256 encryption
- Optional FFV based hard disk recorder with playback routed back to lid monitor
- 458, 868MHz telemetry for UK
- 903MHz telemetry for Americas
- 433MHz special available for Europe

Optional 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



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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
Power (mains)	IEC

Antennas

Receive Antenna	4dBi Colinear TNC mount flexible
Transmit Antenna	1/2λ SMA Omni

Output

Composite video	BNC
Telemetry transmit	BNC
Line level audio	Phono
Headphone audio (with volume control)	Audio jack
Control output	Lemo
Chaining	Lemo
Data	Lemo

Antennas

4 dBi Colinear (supplied)	TNC mount
RF Bypass (user's own)	TNC input

RF

Input Frequency bands	2170 to 2500MHz/1000 to 1500MHz (model dependant)
Output Frequency	458MHz, 868MHz or 903MHz (model dependant)
Tuning Steps	250kHz

Modulation

Receive modes (Narrow band)

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 (Wide band)	Bandwidth 8/7/6 MHz
DVB-T COFDM receive	FEC 1/2, 2/3, 3/4, 5/6, 7/8
Transmit modes	COFDM 25kHz OPSK 100mW

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

Control

Remote control application	RS232 control from PC GUI
Touch screen control	All features Backlight off selectable to minimise light emission
On screen display	Spectrum, Rx SNR, Rx Power

PTZ Control

Button panel	Includes Camera Select, zoom, Day Night Select, Pan and Tilt
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Physical

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

Power

AC input (2.5A fused)	110/240V
DC input (8A fused)	11-16V
Battery backup (internal fuse)	3 hours operation

Environment

Temperature Range	-10 to +50 deg C (operating) +10 to +40 deg C (charging batteries)
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Product Code:

SOL4MIVC-225045	2 to 2.5GHz with 458MHz telemetry
SOL4MIVC-125045	1 to 1.5GHz with 458MHz telemetry
SOL4MIVC-225086	2 to 2.5GHz with 868MHz telemetry
SOL4MIVC-125086	1 to 1.5GHz with 868MHz telemetry
SOL4MIVC-475086	4.5 to 5GHz with 868MHz telemetry
SOL4MIVC-225090	2 to 2.5GHz with 903MHz telemetry

Product Code Includes

LEAD, 2XPHONO-2XPHONO 1M
458MHz Antenna 310mm 5dbi
Adaptor FME-SMA
Label SMA MAX. 0.45Nm
Product Label SOL4MIVC-225045
RS232 cable Lemo-Dsub9 3m
BNC Video lead 3m
MicroVue External 12v DC in
MicroVue / SOLCON External Control Cable (lemo to lemo)_
MicroVue / SOLCON External Control Cable (lemo to Hirose)

Accessory Options

SOL4DVR Recorder option

Licensing Options

NETCRXIPUP IP STREAMING OPTION
RX-UN Upgrade to MPEG4 Ultra-Narrowband 1.25 MHz
RX-UXXN Upgrade to MPEG4 Ultra Extreme Narrowband 625 kHz

Products are available to security users only, in licensed frequency bands. These products are not approved for use by unlicensed users. Commercial products are available to unlicensed users - contact Cobham Tactical Communications and Surveillance direct for details. All product specifications are subject to change without notice. Cobham Tactical Communications and Surveillance will not be liable for technical or editorial errors or omissions.

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