

# SOLO 4 - MultiVue Receive Case

COFDM – Video, Audio Telemetry and IP Products

**COBHAM**

October 2011 Data Sheet

The most important thing we build is trust



The Cobham Tactical Communications and Surveillance MultiVue is a briefcase receiver package, with Cobham technology at its core, for team-based tactical video surveillance operations. It will simultaneously decode and display four separate digital video channels, allowing its operator to observe activities in four different locations or four views of one location. Typical applications include tactical surveillance teams and first responder and emergency teams. Equipped with dual diversity antennae inputs, the MultiVue ensures excellent video reception quality.

The MultiVue combines four Cobham SOLO Receivers with two diversity down-converters and two antennae into one rapidly deployable briefcase kit. A comprehensive touch screen interface is provided for user control. A colour monitor is mounted in the lid and can be user-controlled to display a quad image, or any one of the four individual images. Video and audio outputs are provided at the rear of the unit for recording, while local audio monitoring is provided via headphone outputs. The MultiVue capabilities can be extended with optional IP streaming, and optional microwave relay retransmission. The unit can be AC or DC powered. All cables are included.

The narrow bandwidth modulation offers unprecedented spectrum efficiency, while also increasing the system sensitivity and, therefore, range.

The MultiVue 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 optional AES128/256 bit encryption algorithms.

#### Features:

- Four simultaneous video reception and viewing
- Comprehensive demodulation 8/7/6/2.5 and 1.25MHz (optional)  
Maximum ratio combining antenna diversity for fade and multipath elimination
- Lid mounted antennae
- Colour monitor in lid with quad or individual viewing
- User touch screen control interface
- Optional IP streaming and microwave relay  
Comprehensive On Screen Display (OSD) diagnostics for link analysis, including spectrum analyser
- Internal AES128/256.

#### Commander upgrade:

- Integral triple axis joystick for control of PTZ camera  
Telemetry 100mw Transmitter able to address multiple cameras
- Camera position preset storage
- Multiple PTZ protocols supported.

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## Specification:

### Input

Local Antenna Inputs	TNC
External UHF Inputs	TNC
RS232 Control	9 Way D-sub
Ethernet	RJ45
AC Supply	IEC
DC Supply	4 Pin XLR

### Output

Four Composite Video	BNC
Four S-Video	4 pin MiniDIN
Four Audio Pairs	5 pin Lemo
Monitor Composite Video	BNC
Monitor S-Video	Jack Socket
Headphone	Audio Socket

### Antennae

Lid Mounted Antennae	2dbi Omni
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### RF

Frequency Bands	2170 to 2500MHz, 1000 to 1500MHz, 575 to 675MHz, 340 to 470MHz (others on request)
Tuning Steps	250KHz

### Modulation

DVB-T Bandwidth	8/7/6MHz (optional)
DVB-T Guard	1/32, 1/16, 1/8
DVB-T FEC	2/3, 5/6
DVB-T Modulation	QPSK, 16QAM, 64QAM
Sensitivity	-95dB Plus
SOLO Bandwidth	2.5/1.25MHz (optional)
SOLO Guard	1/16, 1/8
SOLO FEC	1/3, 2/3
SOLO Modulation	QPSK 16QAM
Sensitivity	-95 to -104dB

### 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

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

### Encryption

Format	AES128/256 (optional)
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### Control

Local Control	By touch screen control interface
Local Control	Via RS232 Control Port
Remote Control	
Over Ethernet	Via RJ45 Ethernet Port
On Screen Display	Spectrum, RX SNR, RX Power

### Physical

Dimension	L 540mm, W 420mm, H 220mm
Weight	Less than 12kg

### Power

AC Input	110/240V
Power Consumption	Approx 120W

### Environment

Temperature Range	-10 to +50 deg C
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### Telemetry

RF Frequency Band	868-870MHz 457-459MHz 903MHz
1 x PRS Antenna	
Power Output	100mW
Joystick	Triple Axis Joystick: left, right, up, down, twist to zoom

### Product Code:

SOL4MUV-217250	SOL4MUV-100150
SOL4MUV-058067	SOL4MUV-034047
SOL4MUV-225086	SOL4MUV-225045
SOL4MUV-125045	SOL4MUV-225090

### Product Code Includes

- 1 x Null Cable
- 2 x Down-converter RX TNC Cable 10m
- 1 x CRX Data Breakout Cable
- Audio and Video Cables available on request.

### Accessory Options

Addition of joystick and telemetry transmitter- Commander Option

### Licensing Options

RX-N	Narrowband 2.5MHz
RX-UN	Upgrade to Ultra-Narrowband 1.25Mhz
RX-UJXN	License RX Upgrade from RX-UN to MPEG4 Ultra-X
.	Narrowband 625kHz

For further information please contact:

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