

Veta Receiver Briefcase (VR-B)

Tactical Diversity Digital Microwave Briefcase Receiver

COBHAM

The most important thing we build is trust.



The VETA Receiver Briefcase (VR-B) is a briefcase receiver package for video surveillance operations. Additionally, it can be used as a remote video receiver for UAV and UGV applications. The VR-B combines a Cobham VR Receiver with two diversity down-converters and two antennas into one rapidly-deployable briefcase kit. A 8" color daylight readable LCD screen is mounted under the lid, while an external comprehensive touch button control panel is supplied for control and set up. Power can be supplied with AC/DC or powered by an external battery pack via the 4-pin XLR. LAN video/audio streaming is available from two Ethernet ports located externally. Web control of the RX is available to change RX parameters. An optional video server is available to stream audio and video to the internet or low bandwidth IP networks.

The Cobham Surveillance narrow bandwidth modulation has unprecedented spectrum efficiency, while also increasing sensitivity and, therefore, range. The VR-B 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 AES 128 or 256-bit encryption algorithms.

Features:

- COFDM demodulation 8/7/6/, 2.5 and 1.25 MHz (optional)
- Maximal ratio combining antenna diversity for fade and multipath elimination
- External antenna connectors
- 8" day light readable color monitor
- AC and DC operation
- Comprehensive On Screen Display (OSD) diagnostics for link analysis, including spectrum analyzer
- Easy to use 3-button touch panel for status/configuration
- Headphone output
- LAN Video Streaming via two external Ethernet ports
- Internal AES 128 or 256 encryption
- Optional video server available for low rate internet video streaming

Specifications subject to change without prior notice
Typical values shown unless min or max is specified
100-DS0344X2 03/14/11 1 of 2

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Specification:

Input

RF Input 1 Antenna 1 – N connector

RF Input 2 Antenna 2 – N connector

Power (12V DC) 4-pin XLR

Power (AC) IEC

Output

Composite Video BNC

Line Level Audio RCA

Headphone Audio (with volume control) Audio Jack

Control Output DB9 RS232

Data DB9 RS232

LAN Video/Audio Ethernet RJ45 x 2 (control and optional video server)

RF

Frequency Bands

50-850 MHz

50-360 MHz,

360-800 MHz,

1435-1535 MHz,

1700-1850 MHz,

1990-2500 MHz,

Dual Band 1700-1850 MHz and 2200-2400 MHz,

2400-2700 MHz,

3100-2600 MHz,

4400-5000 MHz,

5500-5900 MHz,

6425-6525 MHz,

6875-7125 MHz

Tuning Steps 250 KHz

Modulation

Receive Modes Narrowband:

Mode 1 - Short Range 2.5 MHz, 16QAM, FEC2/3,

Sensitivity -95 dBm

Mode 2 - Normal Range 2.5 MHz, QPSK, FEC2/3,

Sensitivity -99 dBm

Mode 3 - Long Range 2.5 MHz, QPSK, FEC1/3,

Sensitivity -102 dBm

Mode 4 - Ultra Long Range 1.25 MHz, QPSK, FEC1/3,

600 kb/s, Sensitivity 105 dBm (optional)

Receive Modes Wideband:

DVB-T COFDM Receive Bandwidth 8/7/6 MHz

FEC 1/2, 2/3, 3/4, 5/6, 7/8

Video

Line Standard NTSC/PAL

Resolution 704, 528, 480, 352

Coding Mode MPEG2 or MPEG4 (optional)

Delay 43 ms to 1sec depending on mode

Frame Rate Full/Half/Quarter/Eighth (optional)

Audio

Line Level Output Phono

Sample Rate 32 KHz, 16 KHz, 8 KHz

Bits per Sample 12 or 8 bit

Data Interface

RS232 Data Output 1K2 to 115K2 baud switchable

Encryption

AES128/256 selectable (optional)

Control

Remote Control RS232 Control from PC GUI

Application

3-button External Control Panel

On Screen Display Spectrum, RX SNR, RX Power

Physical

Dimension L 16.00" x W 13.00" x H 6.87"

Weight 18.4lbs

Power

AC Input (6A fused) 110/240 V

DC Input (8A fused) 10 to 16 V with reverse voltage protection

Environment

Operating Temperature -10 ° C to +50 ° C

Humidity: Up to 95% non-condensing

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