

SOLBRXD - Broadcast Receiver Decoder

COFDM - Video, Audio Telemetry and IP Products

COBHAM

September 2010 Data Sheet

The most important thing we build is trust



The SOLO Broadcast Receiver Decoder is an economical, high-quality diversity input digital video receiver. A Cobham Surveillance product with domo technology at its core, the SOLO Broadcast Receiver Decoder supports interoperability with other manufacturers' DVB-T systems and is able to receive the Cobham Surveillance (domo Products) transmitter family.

The SOLO Broadcast Receiver incorporates a fully compliant DVB-T COFDM diversity demodulator, with a compliant MPEG2 decoder, and high quality interfaces such as SDE video. The SOLO Broadcast Receiver is equipped with two antenna inputs with external down-converters to allow antenna placement remote from the receiver housing. The SOLO Broadcast Receiver operates a maximum ratio combining digital diversity; ensuring video is recovered free from distortions typically associated with fading and multipath.

The SOLO Broadcast Receiver has comprehensive on-screen display diagnostic capability to show link quality and spectrum, enabling users to optimise transmission performance.

The SOLO Broadcast Receiver is equipped with video, two voice and data channels, and is designed for easy integration into command vehicle, briefcase or central receive applications.

The SOLO Broadcast Receiver is ideal for use in locations such as stadiums and studios, or as a film assist receiver on film set locations.

Features:

- Fully featured 8/7/6MHz demodulation
- ASI and SDI interfaces
- Maximum ratio combining antenna diversity for fade and multipath elimination
- Comprehensive on-screen display (OSD) diagnostics for link analysis, including spectrum analyser
- External down-converters for convenient antenna placement
- Internal AES128/256 bit encryption (option)
- Very low delay video operation for real time applications.

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Specification:

Down-converters

RF In	TNC
UHF Out	TNC

Input

UHF Input 1	TNC
UHF Input 2	TNC
Power	4 pin OB Lemo

Output

SDI Video	BNC
Composite Video	BNC
Stereo Line Level Audio	Lemo
Chaining Interface	Lemo
RS232 Data	Lemo
RS232 Control	Lemo
ASI Out	BNC

RF

Frequency Bands	70 to 850MHz
With additional Down-Converter	5.62 to 5.9GHz, 4.5 to 5GHz with DCB450500 2 to 2.5GHz with DCB200250
Tuning Steps	250KHz

Modulation

DVB-T Bandwidth	8/7/6MHz
DVB-T Guard	1/32, 1/16, 1/8, 1/4
DVB-T FEC	1/2, 2/3, 3/4, 5/6
DVB-T Modulation	QPSK, 16QAM, 64QAM
Sensitivity	-95dB plus

Video

Line Standard	PAL/NTSC
Resolution	704, 528, 480, 352
Coding Mode	MPEG 4:2:2 or 4:2:0
Delay	80ms

Audio

Output	Line Level
Sample Rate	48KHz
Format	MPEG Audio 384Kb/s to 64Kb/s mono or stereo

Data Interface

RS232 Data Output	1K2 to 115K2 baud switchable
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Control

Remote Control	RS232 Control from PC GUI Application
Local Control	Front Panel 8 channel select, RF on/off, Range mode, Lock, Alarm
On Screen Display	Spectrum, RX SNR, RX Power

Physical

Dimension Base Unit	L 200mm, W 152mm, H 50mm
Down-converter	L 102mm, W 100mm, H 35mm
Weight Base Unit	2.2kg
Down-converter	300g

Power

DC Input	9 to 16V Reverse Polarity Protected
Power Consumption	12W depending on mode

Environment

Temperature Range	-10 to +50 deg C
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Accessories Supplied

1 x BNC Video Lead 3m
1 x PSU 12 Power Supply
1 x Control Cable
1 x Audio Out Cable OB(FGA) Lemo-phono 3m
1 x Data Cable (optional)

Product Code:

SOLBRXD

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 Surveillance direct for details.

All product specifications are subject to change without notice. Cobham Surveillance will not be liable for technical or editorial errors or omissions.

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