

NanoVue SOLO4 Receiver

COFDM – Video, Audio Telemetry and IP Products

COBHAM

June 2011 Data Sheet

The most important thing we build is trust



The Cobham Tactical Communications and Surveillance NanoVue Bodyworn Receiver is a fully portable digital diversity receiver. NanoVue incorporates a high resolution daylight viewable video touch screen with digital diversity receiver, antennas and clip-on batteries into a robust and compact lightweight housing.

It is ideal for use as a confidence or monitoring receiver for tactical use, or for surveillance on the move, perimeter security and fire control.

Control is achieved through a touch screen interface or by connecting the unit to an IP network using the Ethernet interface provided.



The product can be supplied with an optional external rechargeable battery pack for rapid interchange which provides at least four hours continuous use battery life. It can also run from an external DC supply.

NanoVue has comprehensive on screen display diagnostic capability to show link quality, enabling users to optimise transmission performance. The touch screen allows the user to switch channels and perform basic configuration like frequency selection without the need for connection to a PC.

NanoVue is ideal for tactical mobile situations providing decision makers with real time video feedback.

Features

- Fully featured 8/7/6/2.5/1.25 * MHz demodulation
- Maximum ratio combining antenna diversity
- High resolution 4.3" display
- Easy to use touch screen
- Internal recording to SD card *
- Optional removable battery pack with internal charger circuit
- 4 hours battery life (via external pack)
- Compact weatherproof housing
- Supplied with antennas (as shown)

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Specification

Inputs

RF Input from Antenna 1	SMA Female 50 Ohm
RF Input from Antenna 2	SMA Female 50 Ohm
Power	Lemo
Ethernet Control	Lemo

Outputs

S-video, RS232 Data	Hirose
ASI Out (OEM board level only)	MCF
Stereo Line Level Audio and Composite Video	Lemo
Headphone Audio Out	3.5 mm Headphone Jack

RF

Frequency Bands	1.00 to 1.50 GHz 2.17 to 2.50 GHz
Tuning Step Size	250 kHz

Control

Local	Touch Screen Interface
Remote	Ethernet

Dimensions

130*80*30mm, 493g

DC Input

6V to 16V, 9W consumed

Modulation

DVB-T Bandwidth	8/7/6 MHz
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
DVB-T Sensitivity	-95 dBm

Narrow Band Bandwidth	2.5 / 1.25 MHz
Narrow Band Guard	1/8, 1/16
Narrow Band FEC	1/3, 2/3
Narrow Band Modulation	QPSK, 16QAM
Narrow Band Sensitivity	-95 to -104 dBm

* Starred items in italics are licensed features

Video

Line Standard	PAL / NTSC
Resolution	704, 528, 480, 352
Coding Mode	MPEG2, MPEG4
Delay	80 ms
Screen	480*272 pixels

Audio

Output	Line Level
Sample Rate	48 kHz
Format	MPEG Audio 384 to 64kb/s

Temperature

-10 to +45 deg C

Product Code

SOL4NNV 440500
SOL4NNV-217250
SOL4NNV-100150

Each kit supplied with

12V Power Cable (CA0002)
3rd Gen Control Cable (CA0063)
AV Cable BNC/Phono (CA0122)
Ext Ethernet Cable (CA0505)
2 x Low Gain Omni Antennas
(Antenna Gain 1-2dB dependant on Frequency)

Licensing Options

RX-D	DVB-T MPEG2 diversity demodulator and receiver
RX-N	DVB-T MPEG2 and Narrowband 2.5MHz diversity demodulator and receiver
RX-UN	Upgrade from RX-N or RXD-N to MPEG4 Ultra-Narrowband 1.25 MHz
RX-UXN	Upgrade to MPEG4 Ultra Extreme Narrowband 625 KHz
RX-D-N	Upgrade from RX-D to Narrowband 2.5MHz diversity demodulator and receiver
RX-S	Receiver video streaming
RX-D-DMOD	DVB-T Diversity Demod only
RX-N-DMOD	DVB-T and 2.5MHz Diversity Demod only
NETNNVIPUP	License for NanoVue Recording and Streaming
NNNVCS	NanoVue Night Vision clip-on screen

For further information please contact:

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