

NanoVue SOLO4 Receiver

COFDM – Video, Audio Telemetry and IP Products

COBHAM

September 2011 Data Sheet

The most important thing we build is trust



The Cobham Tactical Communications and Surveillance NanoVue Receiver is a fully portable digital diversity receiver. NanoVue incorporates a high resolution daylight viewable video touch screen with digital diversity receiver, antennas with optional clip-on battery in 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. Rapid configuration in the field is supported via the Cobham Field Controller (FCO).

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 can be supplied with a clip-on screen, which makes the unit compliant to MIL-STD-3009 CLASS-B for use with Night Vision Goggles (NVG).

The product 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. Recording to SD card is also controlled via the touch screen.

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

Features

- Small size: 130 x 80 x 32 mm (unit only)
- Low power
- Fully featured 8/7/6/2.5/1.25*/0.625* MHz demodulation
- Maximum ratio combining antenna diversity
- IP video streaming (RTSP and UDP) *
- Internal recording to 32GB SD card *
- Ethernet control
- High resolution 4.3" display
- Easy to use touch screen
- Optional clip-on night vision screen
- Optional clip-on 4 hour battery pack with internal charger circuit †

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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

Outputs

S-video, RS232 Data	Hirose
Stereo Line Level Audio and Composite Video	Lemo
Headphone Audio Out	3.5 mm Headphone Jack

Ethernet control/streaming	Lemo
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RF

Frequency Bands	340 to 470 MHz 1.00 to 1.50 GHz 1.65 to 2.38 GHz 2.17 to 2.50 GHz 3.10 to 3.70 GHz † 4.40 to 5.00 GHz 5.50 to 6.00 GHz
Tuning Step Size	250 kHz

Control

Local	Touch Screen Interface & Field Controller (FCON)
Remote	Ethernet

Dimensions

130x80x32mm, 493g

DC Input

6V to 16V, 8W 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

Narrowband Bandwidth	2.5 / 1.25* / 0.625* MHz
Narrowband Guard	1/8, 1/16
Narrowband FEC	1/3, 2/3
Narrowband Modulation	QPSK, 16QAM
Narrowband Sensitivity	-95 to -104 dBm

Video

Line Standard	PAL / NTSC
Resolution	704, 528, 480, 352
Coding Mode	MPEG2, MPEG4*
Delay	80 ms
Screen	480x272 pixels

Audio

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

Temperature

-10 to +45 °C

Product Codes

SOL4NNV-034047	NanoVue 340 to 470 MHz
SOL4NNV-100150	NanoVue 1.00 to 1.50 GHz
SOL4NNV-165238	NanoVue 1.65 to 2.38 GHz
SOL4NNV-217250	NanoVue 2.17 to 2.50 GHz
SOL4NNV-310370	NanoVue 3.10 to 3.70 GHz †
SOL4NNV-440500	NanoVue 4.40 to 5.00 GHz
SOL4NNV-550600	NanoVue 5.50 to 6.00 GHz

Product Code Includes

License for Narrowband (2.5MHz), DVB-T, MPEG2	
12V Power Cable	CA0002
3 rd Gen Control Cable	CA0063
AV Cable BNC/Phono	CA0122
Ethernet Cable	CA0505
2 x Low Gain Omni Antennas	Gain 1-2dBi, frequency dependent

Accessory Options

NNVBAT+	Clip-on battery pack & charger
NNVNVCS**	Night vision clip-on screen
FCON	Field Controller

Licensing Options

NETNNVIPUP	Recording & Streaming upgrade
RX-UN	Upgrade to MPEG4 Ultra-Narrowband 1.25 MHz
RX-UXN	Upgrade to MPEG4 Ultra Extreme Narrowband 625 kHz

† Future product

* Licensed feature

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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