

SOLO7 NanoVue 'HD' Receiver

COFDM – Video, Audio Telemetry and IP Products

COBHAM

December 2014 Data Sheet

The most important thing we build is trust



The Cobham Tactical Communications and Surveillance SOLO 7 NanoVue 'HD' Receiver is a fully portable digital diversity receiver. The enhanced faster microprocessor provides increased performance and responsiveness resulting in faster IP streaming. The NanoVue HD Receiver incorporates an extremely flexible decoding platform with low delay SD and HD H.264 decoding capability.

The NanoVue 'HD' receiver incorporates a high resolution daylight viewable video touch screen with digital diversity receiver, antennas with optional clip-on battery in a proven, durable 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.

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 HD 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)
- H.264, MPEG-4 ASP and MPEG-2 decoding in one unit
- 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 Definition 5" display 800x 480 res.
- Easy to use touch screen
- Optional clip-on 4 hour battery pack with internal charger circuit

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Specification

Inputs

RF Input from ANT 1 SMA Female 50 Ohm
RF Input from ANT 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

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 5.95 GHz
Tuning Step Size 250 kHz

Control

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

Physical

Size 130x80x32mm
Weight 493g
Temperature -10 to +45 °C

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
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 H.264 SD 704, 528, 480, 352
Resolution (HD) 1920*1080i @30/29.97/25
1280*720p @60/59.94/50
Coding Mode H.264 SD/HD 4:2:0
MPEG2 SD 4:2:2 or 4:2:0
Video latency 80ms typical
Screen 480x272 pixels

Audio

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

Product Codes:

Please see configurator table on the following page.

Products are available to security users in licensed frequency bands. Encryption licences are subject to export control. These products are not approved for use by unlicensed users. Commercial products are available if used in appropriate licensed frequency bands.

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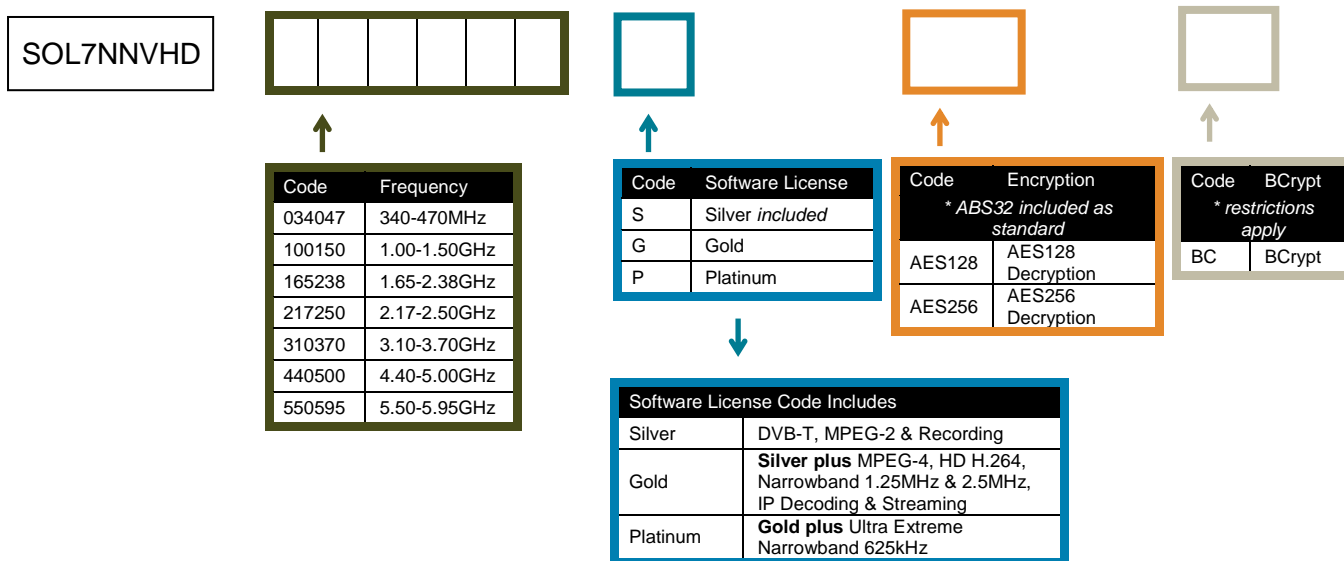
December 2014 Data Sheet

Family: Receiver Product: SOLO7

Export of Encrypted Products is Subject to United Kingdom Regulatory Export Controls

Cobham TCS Sales Code

Please enter required codes



Product Code Includes	
CA0002	12V Power Cable
CA0122	AV Cable BNC/Phono
CA0063	3 rd gen Control Cable
CA0505	Ethernet Cable
CA2396	BNC to SDI Cable
2 Low Gain Omni Antennas (dBi & frequency bands vary)	

Compatible Products (sold separately)	
SOL4MTX	Transmitter
SOL5TX	Transmitter
SOL7NTX	Transmitter
SOL4DCAM	DropCam Transmitter

Related Accessories (sold separately)	
NNVBAT	Clip-on Battery Pack & Charger
AP006673	AU Power Lead for Battery Charger
AP004634	EU Power Lead for Battery Charger
AP000481	UK Power Lead for Battery Charger
AP001483	US Power Lead for Battery Charger
NNVNCS	Night Vision Clip-on Screen
FCON	Field Controller

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