

## SOLO7 NanoVue 'HD' Receiver

COFDM – Video, Audio Telemetry and IP Products

April 2016 Data Sheet



The Domo Tactical Communications (DTC) 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 DTC Field Controller (FCON).

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 (*SD Narrowband only*) 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<br>1.00 to 1.50 GHz<br>1.65 to 2.38 GHz<br>2.17 to 2.50 GHz<br>3.10 to 3.70 GHz<br>4.40 to 5.00 GHz<br>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<br>1280*720p @60/59.94/50 |
| Coding Mode     | H.264 SD/HD 4:2:0<br>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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Family: Receiver Product: SOLO7

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

## DTC Sales Code

Please enter required codes

SOL7NNVHD

| Code   | Frequency    |
|--------|--------------|
| 034047 | 340-470MHz   |
| 100150 | 1.00-1.50GHz |
| 165238 | 1.65-2.38GHz |
| 217250 | 2.17-2.50GHz |
| 310370 | 3.10-3.70GHz |
| 440500 | 4.40-5.00GHz |
| 550595 | 5.50-5.95GHz |

| Code | Software License       |
|------|------------------------|
| S    | Silver <i>included</i> |
| G    | Gold                   |
| P    | Platinum               |

| Code                                | Encryption        |
|-------------------------------------|-------------------|
| <i>* ABS32 included as standard</i> |                   |
| AES128                              | AES128 Decryption |
| AES256                              | AES256 Decryption |

| Code                        | BCrypt |
|-----------------------------|--------|
| <i>* restrictions apply</i> |        |
| BC                          | BCrypt |

| Software License Code Includes |   |
|--------------------------------|---|
| Silver                         | DVB-T, MPEG-2 & Recording (SD Narrowband only)  |
| Gold                           | <b>Silver plus</b> MPEG-4, HD H.264, Narrowband 1.25MHz & 2.5MHz, IP Decoding & Streaming |
| Platinum                       | <b>Gold plus</b> Ultra Extreme Narrowband 625kHz  |

| Product Code Includes                                 |                                   |
|---|-----------------------------------|
| CA0002  | 12V Power Cable                   |
| CA0122  | AV Cable BNC/Phono                |
| CA0063  | 3 <sup>rd</sup> 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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