

SOLO8 NanoVue HD Robust Receiver

Overview:

The SOL8NNVHDR is a fully portable digital diversity receiver, which incorporates a high resolution scratch resistant daylight viewable video screen, an antenna diversity pair and a battery.

This is all housed in a compact robust waterproof enclosure. The SOL8NNVHDR can be powered from its mains adaptor or from the integral battery, which provides up to three hours of power and can be recharged using the charger supplied in the kit.

The SOL8NNVHDR incorporates DTC's SOL8SDR "Software Defined Radio" technology. As such it can be configured as a Mesh Transceiver, able to operate with other SDR and NETNode Mesh radios in order to allow effective IP video delivery to multiple destinations.

Alternatively, the SOL8NNVHDR can be configured as a traditional unidirectional COFDM receiver. In this configuration, remote control is provided by a separate narrowband telemetry link.

The on-screen display provides the viewer with vital information such as the status of the RF link and battery levels in both the SOL8NNVHDR and the transmitter.

A magnetic joystick and button interface allows the user to control the device's parameters and also control camera & transmitter settings via the bi-directional telemetry option.

The preset receive channels are programmed using the supporting PC application and the lead included in the kit.

The unit also incorporates an adjustable screen brightness control so as to allow viewing in differing daylight levels and an ultra dim night setting for covert operations.

The internal 256GB solid state hard disk ensures video recordings and screen snapshots can be easily archived for future reference.

Security of the link is ensured through the use of optional AES128 or AES256 decryption.



Features and Benefits:

- Digital video receiver
- Configurable receive method
- DTC COFDM capable
- DTC Mesh capable
- High resolution display
- On-screen display
- Bi-directional telemetry option
- 256GB recording storage
- PC configurable
- AES128/256 decryption (option)
- IP68 rated
- Scratch resistant glass
- Robust build for tactical operations

SOL8NNVHDR

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Product Information:

Product Includes

COFDM antenna x 2	Frequency dependent
Telemetry antenna	Frequency dependent
AP010123	Fischer CAT 5 cable
AP010124	Dual li-ion battery charger
AP010125 x 2	Li-ion battery pack (4S1P)
AP010126	Fischer PSU 12V 5A, incl. IEC power cable
AP010332	3.5mm jack audio cable

Accessory Options (sold separately)

AP010270	PTT module
AP010271	Bowman Evo III headset

Technical Specification:

Display

Screen type	High definition
Screen size	6"
Screen resolution	1920 x 1080
Screen coating	Anti-reflective
Glass type	Scratch resistant

RF/Telemetry

RF frequency	L-band, S-band, C-band
RF type	DTC COFDM DTC COFDM Mesh
RX antennas	Dual diversity
Telemetry**	Bi-directional
Telemetry frequency**	868MHz or 915MHz

** Supports Dog Cam TX only

Video/Audio

Video interface	HDMI
Video decoding	H.264 and MJPEG
Audio decoding	G711 decoding
Audio output	EXT-B connector

Other

Control interface	Waterproof joystick & buttons
Streaming protocol	RTSP, RTP over TCP or UDP
Decryption	DES (standard) AES128, AES256 (optional)
Alerts	Silent vibration
System configuration	On screen menus
GPS positioning option	Displays TX to RX distance delta
Internal storage	256GB solid state HD

Power

External input voltage	6VDC to 16VDC
Battery capacity	3.35Ah
Run time	>2 hours continual use

Physical

Dimensions	100mm (L), 190mm (W), 42mm (D)
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Environment

Temperature	-20°C to +50°C
IP rating	IP68

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Technical Specification (cont.):

Frequency

132086	1.14-1.50GHz, 868MHz Telemetry
132091	1.14-1.50GHz, 915MHz Telemetry
201086	1.67-2.35GHz, 868MHz Telemetry
201091	1.67-2.35GHz, 915MHz Telemetry
234086	1.98-2.70GHz, 868MHz Telemetry
234091	1.98-2.70GHz, 915MHz Telemetry
470086	4.40-5.00GHz, 868MHz Telemetry
470091	4.40-5.00GHz, 915MHz Telemetry
575086	5.50-6.00GHz, 868MHz Telemetry
575091	5.50-6.00GHz, 915MHz Telemetry

Software License Code

SDRAPP-RX*	SDR Application Receiver
SDRAPP-MESH*	SDR Application IP Mesh NETNode
SDRAPP-IAS*	Interference Avoidance Scheme
AES128	AES128 Cryptography Licence
AES256	AES256 & AES128 Cryptography Licence

* Refer to separate datasheets for SDRAPP requirements

Encrypted products are subject to regulatory export controls

For further information contact your Sales Account Manager, one of our Regional Sales Offices, or email solent.info@domotactical.com

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