

# SOL7HDRX

## SOL07 HD Receiver

### Overview:

The Domo Tactical Communications (DTC) SOL07 Diversity Receiver is a compact digital diversity receiver in a durable, compact and lightweight housing, suitable for use in both remote and fixed location applications.

The SOL7HDRX is available with either built in ‘band specific’ down-converters, or as the SOL7HDRXIF – which allows the user to connect external down-converters to the unit.

Control is achieved via the on board Field Controller (FCON) on the front panel, the serial RS232 control protocol, USB, or by connecting the unit to an IP network using the Ethernet interface. The product has an easy to use web based graphical display diagnostic capability to show link quality, enabling users to optimise transmission performance.

An on-board Micro SD card enables local recording of SD Narrowband video possible. Playback and downloading of recorded video is via the Ethernet interface.



### Features and Benefits:

- Small size: 145 x 95 x 40 mm (excluding cables)
- Built in down-converters (band specific)
- H.264, MPEG-4 ASP and MPEG-2 decoding
- 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 (SD Narrowband only)\*
- Ethernet, Front Panel and USB control
- AES128/AES256 decryption (optional)

\*Licensable Features

### Product information:

#### Product Includes:

CA0002	SOLO 12VDC Power lead Lemo-wire 3M
CA0023	Standard 12V Power Block
CA0122	AV Cable BNC/Phono
CA0063	3rd Gen Control Cable
CA2396	BNC to SDI Cable

#### Accessory Options (sold separately):

AP000481	UK Mains Power Lead for PSU
AP001483	US Mains Power Lead for PSU
AP004634	EU Mains Power Lead for PSU
AP007192	AU Mains Power Lead for PSU
AP007250	Standard USB-A to Mini-B Cable Black 1m
SOL7NNVHD-DONGLE	HD Recording Dongle
CA0924	RF Cable (TNC - SMA)
Antennas	Various Frequencies - See RF Section
DCB/DCBGS	Various Frequencies - See RF Section
AP005146	SOLBAT3 Battery
AP001223	Battery Charger

#### Related Documents:

100203	SOL07 HD Receiver User Guide
100208	SOL07 NanoVue HD Recording Dongle User Guide

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### Technical 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 & Composite Video	Lemo
Headphone Audio Out	3.5mm Headphone Jack
Serial Control	Micro USB
Ethernet	RJ45
HD-SDI/ASI (Switchable)	DIN

#### Control

Local	RS232/USB
	Front panel
Remote	Ethernet

#### Physical

Size	145 x 95 x 40mm
Weight	650g
Operating Temperature Range	-10 to +45 °C

#### Ratings

DC Input	6V - 16V
Power Consumption	10W

#### 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)	1920x1080i @ 60/59.94/50
	1920x1080p @ 60/59.94/50/30/29.97/25/24/23.98
	1920x1080psF @ 60/59.94/50/30/29.97/25/24/23.98
	1280x720p @ 60/59.94/50
Coding Mode	H.264 SD/HD 4:2:2* or 4:2:0
	MPEG2 SD/HD 4:2:2* or 4:2:0
	MPEG4 Part 2 ASP (DTC proprietary)
Video Latency	80ms typically

\*Licensable Features

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### Technical specification (con't):

#### Audio

AV	Consumer Line Level
Headphone	Headphone Level

#### RF

Tuning Step Size	250kHz
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#### Frequency

015085	150 - 850 MHz
034047	340 - 470 MHz
025085	250 - 850 MHz
100150	1.00 - 1.50 GHz
165238	1.65 - 2.40 GHz
217250	2.17 - 2.50 GHz
310370	3.10 - 3.70 GHz
440500	4.40 - 5.00 GHz
550595	5.50 - 5.95 GHz

#### Software License Code

Silver (included)	DVB-T, MPEG2 (inc. HD), H.264 (inc. HD)
Gold	Narrowband 2.5MHz & 1.25MHz, MPEG-4, IP Decoding, Recording & Streaming (SD/ Narrowband Recording Only)
Platinum	Ultra-Extreme Narrowband 625kHz

Export of encrypted products is subject to United Kingdom regulatory export controls.

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