

# SOL7HDRX

## SOL07 HD Receiver

### Overview:

The 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 integral band-specific downconverters, or as the SOL7HDRX-015085 which also allows the user to connect external downconverters to the unit.

Control is achieved via the on board Field Controller (FCON) on the front panel, 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)
- Integral band-specific downconverters
- 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	12VDC power lead Lemo-wire
CA0023	Standard 12V power block
CA0122	AV cable BNC/phono
CA0063	Control cable
CA2396	BNC to SDI cable

#### Accessory Options (sold separately)

AP000481	UK mains power lead for CA0023
AP001483	US mains power lead for CA0023
AP004634	EU mains power lead for CA0023
AP007192	AU mains power lead for CA0023
AP007250	Standard USB-A to mini-B cable
AP009137	Tracer 12V 8Ah lithium polymer battery pack
AP009138	Tracer 12V 4Ah lithium polymer battery pack
CA3237	Tracer battery to 4W 0B Lemo cable
Antennas	Various - see Frequency specification
Downconverters	Various - see Frequency specification (015085 only)
CA2544/CA2545/CA2546	SMA-TNC (m-m) LBC195 cable 3m/1m/10m

#### Related Documents

Resource ID 100203	SOL07 HD Receiver User Guide
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### Technical Specification:

#### Inputs

RF input from ANT 1	SMA female 50Ω
RF input from ANT 2	SMA female 50Ω
Power	4-way Lemo

#### Outputs

S-Video, RS232 data	16-way Hirose
Stereo line level audio & composite video	5-way Lemo
Headphone audio out	3.5mm headphone jack
Serial control	Micro USB
Ethernet	RJ45
HD-SDI/ASI (switchable)	DIN1.0/2.3

#### Control

Local	RS232/USB Front panel
Remote	Ethernet

#### Modulation

DVB-T bandwidth	8/7/6MHz
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	-95dBm
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

#### Audio

AV	Consumer line level
Headphone	Headphone level

#### Video

Line standard	PAL/NTSC
Resolution	H.264 SD 704, 528, 480, 352
Resolution (HD)	1280x720p @ 60/59.94/50 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
Coding mode	MPEG2 SD/HD 4:2:2* or 4:2:0 MPEG4 Part 2 ASP (DTC proprietary) H.264 SD/HD 4:2:2* or 4:2:0
Video latency	80ms typically

#### RF

Tuning step size	250kHz
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#### Ratings

DC input	6V to 16V
Power consumption	10W

#### Physical

Size	145mm (L) x 95mm (W) x 40mm (D)
Weight	650g
Operating temperature range	-10°C to +45°C

\*Licensable features

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## SOL07 HD Receiver

### Technical Specification (con't):

#### Frequency

015085	150-850 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	Silver plus Narrowband 2.5MHz & 1.25MHz, MPEG-4, IP Decoding, Recording & Streaming (SD/Narrowband Recording Only), SDI Ancillary Data
Platinum	Gold plus Ultra-Extreme Narrowband 625kHz
AES128RX	AES 128-bit decryption
AES256RX	AES 256-bit and AES 128-bit decryption

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

For further information contact your Sales Account Manager, one of our Regional Sales Offices, or email [solent.enquiries@domotactical.com](mailto:solent.enquiries@domotactical.com)

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