

## SOLO7 HD Receiver

COFDM – Video, Audio Telemetry and IP Products

June 2016 Data Sheet



The Domo Tactical Communications (DTC) SOLO7 Diversity Receiver is a compact digital diversity receiver in a durable, compact and lightweight housing. This product can be used both remotely and in 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 via RF cables. When ordered with built in down-converters the user can directly connect the antennas 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.

The product is supplied with external mains to DC supply, for fixed location use. It can also run from an external rechargeable battery pack for remote applications. These battery packs allow for rapid interchange, and provide approximately >5 hours continuous use battery life.

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

### Features:

- 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 control
- Front Panel control
- USB control
- AES128/AES256 decryption (optional)

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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 & Composite Video out	Lemo
HD-SDI Video out	DIN 1.0/2.3
Serial Control	Micro USB
Ethernet ctrl/streaming	RJ45

### RF

Frequency Bands	340 to 470MHz 1.00 to 1.50GHz 1.65 to 2.38GHz 2.17 to 2.50GHz 3.10 to 3.70GHz 4.40 to 5.00GHz
Tuning Step Size	250kHz

### Control

Local	Ethernet, via PC Field Controller RS232/USB
Remote	Ethernet

### Physical

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

### DC Input

6V to 16V, ~8W 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 Output (SD)

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

### 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. These products are not approved for use by unlicensed users. Commercial products are available if used in appropriate licensed frequency bands.

#### DTC - Solent

Fusion 2,1100 Parkway  
Whiteley, Hampshire  
PO15 7AB, UK  
T: +44 1489 566 750

#### DTC - Tampa

3845 Gateway Center Blvd Ste 360  
Pinellas Park  
FL 33782, USA  
T: +1 727 471 6900

#### DTC - Randers

Haraldsveg 64B  
DK-8960  
Randers SØ  
Denmark  
T: +45 8791 8100

#### DTC - Brazil

Av. das Nações Unidas  
12551- 17ºandar - Sala 1725  
04578-903  
São Paulo  
T: +55 11 3443 7545

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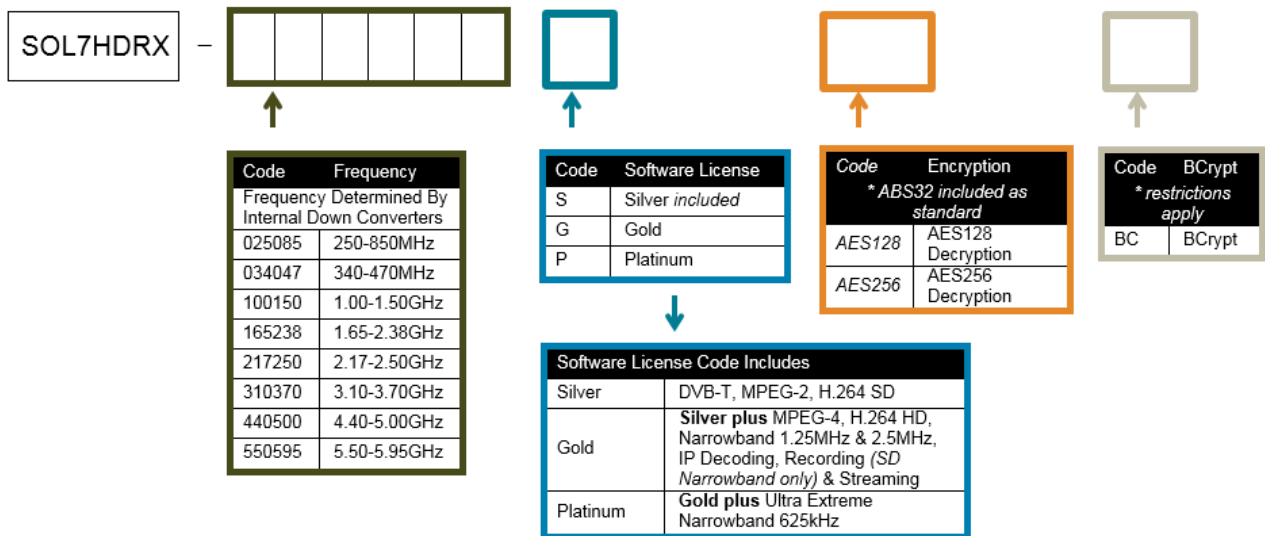
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Family: Receiver    Product: SOLO7

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

## DTC Sales Code

Please enter required codes



Product Code Includes	
CA0002	12VDC Power lead Lemo-wire 3M
CA0063	Control Cable
CA0122	AV Cable BNC/Phono

Compatible Products (sold separately)	
SOL4MTX	Transmitter
SOL5TX	Transmitter
SOL7NTX	Transmitter
SOL7HDNTX	Transmitter

Related Accessories (sold separately)	
SOLBAT	Rechargeable Battery Packs (Various)
SOLBCH	Battery Charger (Various)
AP000465	Ethernet Cable
Antennas	Various frequencies available

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