



The D-SOLO4 Receiver is a feature-rich diversity input digital video receiver, equipped with two antenna inputs with external down-converters to allow antenna placement remote from the receiver housing. The D-SOLO4 Receiver operates a maximum ratio combining digital diversity, ensuring video is recovered free from distortions typically associated with fading and multipath. The D-SOLO4 Receiver is compatible with multiple COFDM transmission formats from 8MHz DVB-T to the unique 2.5 and 1.25MHz narrow band modes proprietary to domo. Incorporating MPEG2 and MPEG4 video decoding, the D-SOLO4 Receiver is suitable for all mission types.

The narrow bandwidth modulation offers unprecedented spectral efficiency, while also increasing the system sensitivity and, therefore, range. The D-SOLO4 Receiver has comprehensive on screen display diagnostic capability to show link quality and spectrum, enabling users to optimize transmission performance.

The D-SOLO4 Receiver is equipped with video, two voice and data channels, and is designed for easy integration into command vehicle, briefcase or central receive applications.

Security of transmission is ensured by the use of ABS encryption as standard or, for greater security, optional AES128/256 bit encryption algorithms, subject to export controls.

Features:

- ▷ Fully featured 8/7/6/2.5MHz (1.25MHz optional)
- ▷ Maximum ratio combining antenna diversity for fade and multipath elimination
- ▷ Comprehensive on screen display (OSD) diagnostics for link analysis, including spectrum analyzer
- ▷ External down-converters for convenient antenna placement
- ▷ Internal AES128/256bit encryption (option)
- ▷ Optional IP interface board for IP streaming and network connection
- ▷ Very low delay video operation for real time applications
- ▷ Optional 4-way diversity.

▽D-SOLO4 Receiver with IP Interface



△D-SOLO4 Receiver without IP Interface

FOR FURTHER INFORMATION, CALL DIGICOM, INC ON (02) 587-7744

D – SOLO4 Receiver



Specification

Down-converters

RF In	TNC
UHF Out	UHF : Out TNC

Input

UHF Input 1	TNC
UHF Input 2	TNC
Power	4 pin OB Lemo

Output

Composite Video	BNC
Stereo Line Level Audio	Lemo
Chaining Interface	Lemo
RS232 Data	Hirose
RS232 Control	Hirose

RF

Frequency Bands	5.62 to 5.9GHz, 4.88 to 5.15GHz, 3.1 to 3.4GHz, 2.28 to 2.55GHz, 1.15 to 1.4GHz, 575 to 675MHz, 470 to 520MHz, 340 to 470MHz,
Tuning Steps	250KHz

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
SOLO Bandwidth	2.5MHz (1.25MHz optional)
SOLO Guard	1/16, 1/8
SOLO FEC	1/3, 2/3
SOLO Modulation	QPSK, 16QAM
Sensitivity	-95 to -105dB

Video

Line Standard	PAL/NTSC
Resolution	704, 528, 480, 352
Coding Mode)	MPEG2 (MPEG4 optional)
Delay	43ms to 120ms depending on mode
Frame Rate	Full/Half/Quarter/Eighth (selectable)

Audio

Output	Line Level
Sample Rate	32KHz, 16KHz, 8KHz
Bits per Sample	12 or 8 bit

Data Interface

RS232 Data Output	1K2 to 115K2 baud switchable
-------------------	------------------------------

Encryption

Format	ABS (standard) AES128/256 (optional)
--------	---

Control

Remote Control	RS232 Control from PC GUI Application
Local Control	Front Panel 8 channel select, RF on/off, Range mode, Lock, Alarm
On Screen Display	Spectrum, RX SNR, RX Power

Physical

Dimension Base Unit	L 200mm, W 152mm, H 50mm
Base Unit inc. IP Interface	L 175mm, W 200mm, H 66mm
Down-converter	L 102mm, W 100mm, H 35mm
Weight Base Unit	2.2kg
Down-converter	300g

Power

DC Input	9 to 16V Reverse Polarity Protected
Power Consumption	10W depending on mode

Environment

Temperature Range	-10 to +50 deg C
-------------------	------------------

Accessories Supplied

2 x Down-converter RX TNC Cable 3m
1 x BNC Video Lead 3m
1 x PSU12 Power Supply
1 x Telemetry Audio Out Cable OB(FGA) Lemo-phono 3m
1 x Data Cable (optional)



FOR FURTHER INFORMATION, CALL DIGICOM, INC ON (02) 587-7744