

## D – SOLO4 Transmitter



The D-SOLO4 Transmitter is a feature-rich COFDM digital video transmitter. The D-SOLO4 Transmitter can operate in a variety of transmission bandwidths allowing the user to trade off image quality against range to suite all types of missions. Excellent range and performance, and spectral efficiency are offered when operating in the unique 2.5MHz and 1.25MHz narrow bandwidth modes.

For excellent image quality at shorter ranges the 8MHz DVB-T modulation can be employed. The D-SOLO4 Transmitter is the first to offer this choice in one product. MPEG2 and MPEG4 image compression is also a user selectable feature.

The D-SOLO4 Transmitter is ideal for establishing rugged wireless video links in all environments including mobile and urban environments. Security is ensured with built-in 32 bit ABS encryption or, for greater security, AES128/256 bit encryption is also available, subject to export controls. The D-SOLO4 Transmitter is available in a variety of frequency bands from 300MHz to 5.9GHz.

Able to transmit images in a non-line of sight environment up to 1km depending on mode and frequency, the D-SOLO4 Transmitter can achieve further range with the clip-on booster PA.

The D-SOLO4 Transmitter is typically used as a stand-alone uni-directional video link, however if a bi-directional system is required, it can be deployed in conjunction with the D-SOLO Telemetry system.

Supplied in a rugged, lightweight weather proof aluminum chassis, the D-SOLO4 Transmitter can be used in body-worn applications, or prolonged outdoor deployments.



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



## Specification

<b>Input</b>		<b>Video</b>	
Composite Video	5 pin OB Lemo	Line Standard	PAL/NTSC
Audio 1	5 pin OB Lemo	Resolution	704, 528, 480, 352
Audio 2	5 pin OB Lemo	Coding Mode	MPEG2 (MPEG4 optional)
SVideo	Hirose 16 pin 3500 series	Delay	43ms to 120ms depending on Mode Full/Half/Quarter/Eighth (selectable)
RS232 Data	Hirose 16 pin 3500 series	Frame Rate	
RS232 Control	Hirose 16 pin 3500 series	<b>Audio</b>	
Chaining I/O	Hirose 16 pin 3500 series	Input	Line Level or Microphone
General Purpose I/O	Hirose 16 pin 3500 series	Sample Rate	32KHz, 16KHz, 8KHz switchable
Power	4 pin OB Lemo	Bits per Sample	12 or 8 bit switchable
<b>Output</b>		<b>Data Interface</b>	
RF Output	SMA	RS232 Data Input	1K2 to 115K2 baud switchable
<b>RF</b>		<b>Encryption</b>	
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 Other frequency special request	Format	ABS 32 bit as standard AES128/256 (optional)
Power	10mW(100mW optional)	<b>Control</b>	
Power Control	30dB in 1dB steps	Remote Control	RS232 Control from PC GUI
Tuning Steps	250KHz	Local Control	Front Panel 8 channel select, RF on/off, Range mode, Lock, Alarm
<b>Modulation</b>		<b>Physical</b>	
Bandwidths (DVB-T or SOLO)	8/7/6/2.5MHz (1.25MHz optional)	Dimension	L 102mm, W 71mm, H 22mm
Default Modes:		Weight	350g
Mode 1 - Short Range	2.5MHz, 16QAM, FEC2/3, 4.8Mb/s	<b>Power</b>	
Mode 2 - Normal Range	2.5MHz, QPSK, FEC2/3, 2.4Mb/s	DC Input	5.9 to 16V Reverse Polarity Protected
Mode 3 - Long Range	2.5MHz, QPSK, FEC1/3, 1.2Mb/s	Power Consumption	4.8 to 6W depending on mode
Mode 4 - Ultra Long Range	(1.25MHz, QPSK, FEC1/3, 600kb/s optional)	<b>Environment</b>	
		Temperature Range	-20 to +70 deg C
		<b>Accessories Supplied</b>	
		1 x SOLO 12V DC Power Lead Lemo-wire 2m	
		1 x 3rd Generation Bodycam AV Cable Lemo-BNC/Phono 2m	
		1 x Data Cable (optional)	

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