

COFDM - VIDEO, AUDIO TELEMETRY & I P PRODUCTS SOLO - DIGITAL WIRELESS VIDEO SYSTEM

SOLO4 - TRANSMITTER

The SOLO4 Transmitter is a feature-rich COFDM digital video transmitter. The 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 SOLO4 Transmitter is the first to offer this choice in one product. MPEG2 and MPEG4 image compression is also a user selectable feature.

The 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, AES1 28/256 bit encryption is also available, subject to export controls. The SOLO4 Transmitter is available in a variety of frequency bands from 300MHz to 3.5GHz.

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

The 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 SOLO Telemetry system.

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



Specification:

Input	
Composite Video	5 Pin OB Lemo
Audio 1	5 Pin OB Lemo
Audio 2	5 Pin OB Lemo
SVideo	Hirose 16 pin 3500 series
RS232 Data	Hirose 16 pin 3500 series
RS232 Control	Hirose 16 pin 3500 series
Chaining I/O	Hirose 16 pin 3500 series
General Purpose I/O	Hirose 16 pin 3500 series
Power	4 Pin OB Lemo
Output	
RF Output	SMA
RF	
Frequency Bands	2280 to 2550MHz, 1100 to 1400MHz, 575 to 675MHz, 340 to 470MHz (others on request)
Power	100mW
Power Control	30dB in 1dB steps
Tuning Steps	250KHz
Modulation	
Bandwidths (DVB-T or SOLO)	8/7/6/2.5MHz (1.25MHz optional)
Default Modes:	
Mode 1 - Short Range	2.5MHz, 16QAM, FEC2/3, 4.8Mb/s
Mode 2 - Normal Range	2.5MHz, QPSK, FEC2/3, 2.4Mb/s
Mode 3 - Long Range	2.5MHz, QPSK, FEC1/3, 1.2Mb/s
Mode 4 - Ultra Long Range	(1.25MHz, QPSK, FEC1/3, 600kb/s optional)
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

Input	Line Level or Microphone
Sample Rate	32KHz, 16KHz, 8KHz switchable
Bits per Sample	12 or 8 bit switchable

Data Interface

RS232 Data Input	1K2 to 115K2 baud switchable
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Encryption

Format	ABS 32 bit as standard AES128/256 (optional)
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Control

Remote Control	RS232 Control from PC GUI Application
Local Control	Front Panel 8 channel select, RF on/off, Range mode, Lock, Alarm

Physical

Dimension	L 95mm, W 70mm, H 22mm
Weight	350g

Power

DC input	5.9 to 16V Reverse Polarity Protected
Power Consumption	4.8 to 6W depending on mode

Environment

Temperature Range	-20 to +70 deg C
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Products are available to security users only, in licensed frequency bands. These products are not approved for use by unlicensed users. Commercial products are available to unlicensed users – please contact us for details.

Product Code: SOL4TX-110140 SOL4TX-228255 SOL4TX-057067 SOL4TX-034047 (2.5MHz TO MPEG4 1.25MHz UPGRADE ADD SOL4TXUP)

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