

SOLO2 - TRANSMITTER

The SOLO2 Transmitter is a reliable, high quality COFDM digital video transmitter providing true broadcast quality video across non-line of sight digital wireless links and provides a high level of spectral efficiency when compared to analogue.

Operating in 6, 7 and 8MHz bandwidths, SOLO2 uses robust MPEG2 video encoding to provide the highest possible video quality within demanding 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 SOLO2 Transmitter is available in a variety of frequency bands from 300MHz to 3.5GHz.

The SOLO2 Transmitter will transmit images in a non-line of sight environment up to 500 metres depending on frequency; further range can be achieved with the clip-on booster PA.

The SOLO2 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 SOLO2 Transmitter can be used in body-worn applications, or prolonged outdoor deployments.

SOLO2 is cost effective entry level transmitter that can be upgraded to the fully featured SOLO4 flagship product, offering unprecedented options and flexibility including upgrade to MPEG4 encoding with 2.5 and 1.25MHz bandwidth and increased signal penetration up to 1km.



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
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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	8/7/6MHz
FEC	1/2, 2/3, 3/4, 5/6
Modulation	QPSK, 16QAM and 64QAM
Upgradable to 2.5MHz and 1.25MHz narrow bandwidth	

Video

Line Standard	PAL/NTSC
Resolution	704, 528, 480, 352
Coding Mode	MPEG2 (upgradable to MPEG4)
Delay	43ms

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 - contact **domo** direct for details.

Product Code: SOL2TX-110140 SOL2TX-228255 SOL2TX-057067 SOL2TX-034047



domo

domo is at the forefront of innovation, developing technologies in the fields of digital wireless, video, audio, telemetry and IP.

Our key technology expertise is in digital video processing, digital modulation and Internet Protocol (IP) interfacing.

Our strength is in adapting complex technologies into simple-to-operate, robust solutions.

Our team of dedicated **domo** engineers is continually developing new solutions directed by demanding customer requirements in fields such as:

- Police Forces
- Security Services
- Special Forces
- Homeland Security Agencies
- First Responders
- Fire Services
- Port Security
- Traffic Management Agencies.