TECHNICAL SPECIFICATIONS

RGB VIDEO INPUT		
Connector	1-HD-15 female conr	nector
Signal Type		GsB, RsGsBs,Component, S-video or Composite
Maximum Resolution	1920 X 1080 (1080P)	
Impedance	75Ω	
Level (nominal)	Analog 0.7V p-p	
Level (maximum)	+-1.0 V	
RGB VIDEO OUTPUT		
Connector	1-HD-15 female conr	nector (Brick models have an additional HD-15 loopback connector)
Signal Type	Same as input	
Gain	Unity	
Impedance	75Ω	
Sync output	5V into Hi Z, 2.2V into	ο 75Ω
AUDIO INPUT		
Connector	1-3.5 mm stereo min	i jack (wallplates), 3 pin Phoenix plug (bricks)
Signal type	Stereo unbalanced	7 (p p p y
Level (nominal)	0.25V RMS -10dBm	
Level (maximum)	1.1V RMS, +3dBm	
Impedance	50 kΩ	
Encoding	Full stereo 24 bit, 96k	kHz sample rate
Frequency response	20Hz-15kHz +-0.5dB	•
AUDIO OUTPUT		
	Wallplate model rece	ivers 2 RCA jack connectors
Connector	Brick model receivers	
Signal type	Stereo unbalanced	1 1 00
Impedance	50Ω (Intended to driv	re a 600Ω or greater load)
Gain	Unity +- 1.5dB	
CONTROL ADJUSTMENTS	,	
Delay Adjust	Independent for R. G	and B delay (Skew models only)
Delay range	0-62 ns (Skew mode	
Video Boost Switch	Dip switch (OFF 0-80	
Gain control	Manual combined co	
RS-232 DATA INPUT	manaar combined co	muorior riab
Number/Type	direct connection to a	nnector. (4 pin Phoenix plug on brick models) DCE type connection for a PC serial port included on two gang transmitters only. Must order accessory harness for one gang transmitters.
Handshaking	Local loopback only ((Models with DB-9 connectors only)
RS-232 type		ransmission from transmitter to receiver only)
RS-232 DATA OUTPUT	,	
Number/Type	One DR-9 male conn	ector. DTE type connection for direct connection to peripheral.
Data Rate	0-19.2k baud	cotor. BTE type connection for an est connection to peripheral.
INFRARED INPUT	0 13.2K baad	
INFRARED INFOI	Poth modele have in	ternal sensor logically OR'd with hardwired input.
Number/Tupe	T-PRO TX brick mod	
Number/Type	T-PRO-TX wallplate r	
Compatibility	<u> </u>	- i
Compatibility	Compatible with mos	t IR outputs designed to drive an IR emitter LED.
INFRARED OUTPUT	0.000 5.000 000 000	All TDDO DV madely
Number/Type		r, center positive. All TPRO-RX models ingle or IR-EC2-6 dual emitter accessory.)
Output Switch	Dip switch (Normal 1.	
•	<u> </u>	- ,
Carrier Range	40 k⊓z, custom trequ	nencies available per request.
POWER REQUIREMENTS	0.41/D0000.101. (5:	0.41/0.000 40.41
TPRO-RX Receivers		w models are 24VDC@0.19A)
TPRO-TX Transmitters	24VDC@0.09A	
		ptional. Use FSR PS-24DC-500MA
MECHANICAL		Dimensions (inches) Shipping weight lbs.
Transmitter enclosure		1.22 X 1.59 X 4.10
Transmitter enclosure	,	.70 X 4.09 X 1.46
Receiver enclosure		1.22 X 1.59 X 4.10
neceiver enclosure	Wall plate 3	3.56 X 4.09 X 1.29
GENERAL		
UTP cable wiring standard/ type	EIA / TIA-568B CAT5	
Recommended transmission range	0-1000 ft with a singl when powered at rec The maximum distand	e power supply (Up to 600' when powered at transmitter. Up to 1000' eiver. When using a TPRO-HUB with included power supply: ce to a transmitter is 1000'. The maximum distance to a receiver is 600' *
	^ A aistance of up to 100	00' can be achieved by adding an additional power supply at the receiver
1 POSANO CI		







Specifications are subject to change without notice.



TwisterPro

UTP Transmitter/Receiver System









DESCRIPTION

The TwisterPro™ UTP Transmitter / Receiver System allows video, stereo audio, RS-232 data and IR signal transmission over ordinary low cost CAT-5, 5e, 6 and cable. This system offers the highest level of signal integrity. These high quality devices ensure reliable, error free transmission that is immune to interference from electrical noise. Cable runs of up to 1000 feet are within the capabilities of the system (see specs for maximum cable length details).

There are wall plate style transmitters (1-gang and 2-gang) and receivers (2-gang) offered in three colors; black, white, and ivory. Matching Decora™ trim rings are included for stand alone use, or the units be populated along with FSR's IPS component and plates for a complete interface solution. There are also "brick" style housing versions that can be used on any surface or rack mounted using the accessory rack kits if preferred. (See TwisterPro™ accessories and ordering info).

TPRO receivers with skew compensation adjustments are optional and help adjust for misconvergence of the red, green and blue video signals that can occur as a result of inherent delay caused by differences in cable twist lengths.

The system can be powered at either the transmitter or receiver end by the optional power supply(s). If a TPRO- HUB is used, the hub with it's included power supply, will power the other components in the system. This 1 in 8 out hub allows full expandability for demanding applications. Multiple hubs can be cascaded to achieve a maximum of 512 outputs.

FEATURES

RGB Video Transmission system

- HD-15 female connectors for video input and output
- CAT-5 connections are via RJ-45 Connectors (EIA/TIA-568B)
- Video resolutions up to 1920 x 1080 (1080p)
- Cable skew compensation adjustments on -S model receiver
- Adjustable gain control on front panel

RS-232 Data Transmission

- DB-9 female connectors for the inputs and male for outputs (optional for TPRO-TX wallplate models)
- UTP connections are via RJ-45 Connectors (EIA/TIA-568B)
- Compatible with RS-232 standards
- UL and CSA approved external power source (wall plug-in)
- Simplex RS-232 up to 19.2k baud
- LED indication of RS232 data activity

IR Control Data Transmission

- Compatible with most IR devices
- Custom carrier frequencies are available per customer request
- Extends IR control up to 1000 feet
- Normal and high output emitter power level settings
- High output power level settings up to 60mW allows for multiple emitter connections - (emitters sold separately)
- Transmitters feature integrated IR sensors in addition to hard-wired input options
- LED indication of IR data activity

General

- Units can be powered at either end or through optional hub
- Over-current sensing with LED indication
- Video, RS-232 and IR LED indicators
- Optional 1 in 8 out TPRO-HUB with power supply available

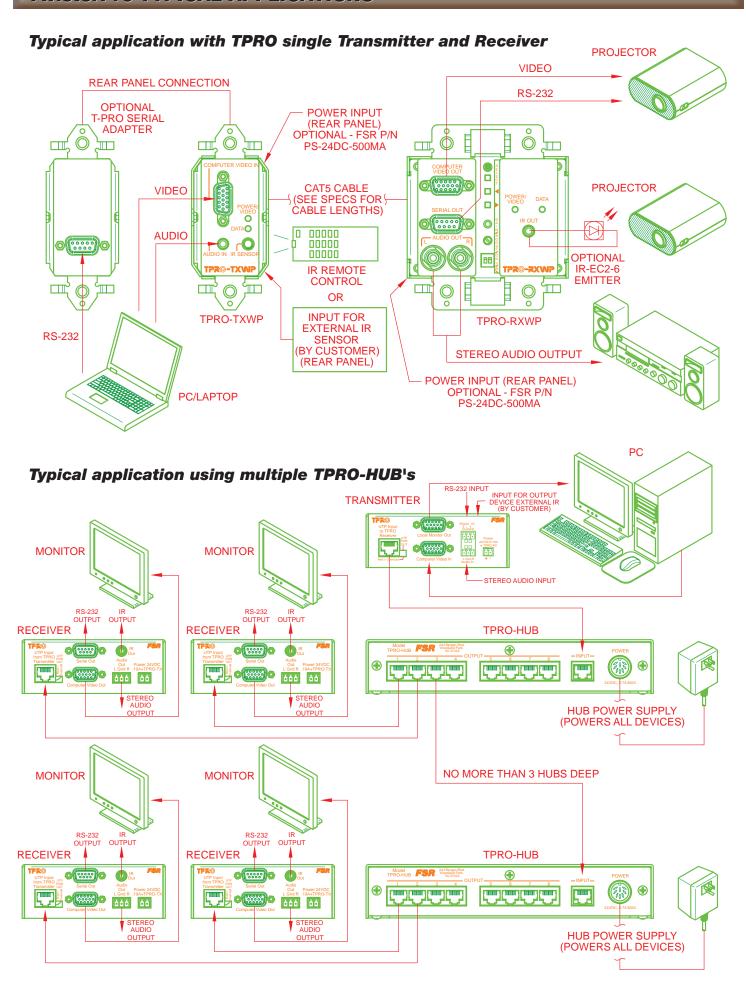
APPLICATIONS

- Boardrooms
- Houses of Worship
- Control Rooms
- Classrooms
- Digital Signage
- Hotel/Conference Facilities
- Temporary Staging and Rental

FSR Inc.

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TwisterPro TYPICAL APPLICATIONS



TwisterPro ORDERING INFORMATION

TwisterPro requires a Transmitter (choose your preference), a Receiver (choose your preference), and Power Supply. No power supply is needed if you are connecting to the TwisterPro Hub.

Twiste	TwisterPro Wall Plate Transmitters - Includes Decora Trim Ring		
Item #	Part #	Description	
16991	TPRO-TXWP-BLK	1 Gang Decora PC Video, St Aud, IR Transmitter Wall Plate - Black	
16992	TPRO-TXWP-WHT	1 Gang Decora PC Video, St Aud, IR Transmitter Wall Plate - White	
16993	TPRO-TXWP-IVO	1 Gang Decora PC Video, St Aud, IR Transmitter Wall Plate - Ivory	
16994	TPRO-TXWPD-BLK	2 Gang Decora PC Video, St Aud, IR, Serial Transmitter - Black	
16995	TPRO-TXWPD-WHT	2 Gang Decora PC Video, St Aud, IR, Serial Transmitter - White	
16996	TPRO-TXWPD-IVO	2 Gang Decora PC Video, St Aud, IR, Serial Transmitter - Ivory	

TwisterPro 1RU x 1/4 Wide Brick Transmitter		
16998	TPRO-TXD	PC Vid, St Aud, IR and Serial Transmitter 1 RU x 1/4 Wide

Twiste	TwisterPro Wall Plate Receiver - Includes Decora Trim Ring		
17009	TPRO-RXWPD-BLK	2 Gang Decora PC Video, St Aud, IR, Serial Receiver - Black	
17010	TPRO-RXWPD-WHT	2 Gang Decora PC Video, St Aud, IR, Serial Receiver - White	
17011	TPRO-RXWPD-IVO	2 Gang Decora PC Video, St Aud, IR, Serial Receiver - Ivory	
17012	TPRO-RXWPDS-BLK	2 Gang Decora PC Vid, St Aud, IR, Ser and Skew Comp Rx - Black	
17013	TPRO-RXWPDS-WHT	2 Gang Decora PC Vid, St Aud, IR, Ser and Skew Comp Rx - White	
17014	TPRO-RXWPDS-IVO	2 Gang Decora PC Vid, St Aud, IR, Ser and Skew Comp Rec - Ivory	

TwisterPro 1RU x 1/4 Wide Brick Receiver		
17015	TPRO-RXD	PC Vid, St Aud, IR, Serial Receiver 1 RU x 1/4 Wide
17016	TPRO-RXDS	PC Vid, St Aud, IR, Serial and Skew Comp Receiver 1 RU x 1/4 Wide

TwisterPro Power Supply		
15552	PS-24DC-500MA	24VDC 500ma Power Supply

Twiste	rPro Hub	
17017	TPRO-HUB	1 in 8 Out Hub with Power Supply

Twiste	rPro Accessories	
17018	TPRO-Serial	DB-9 and Wiring Harness to connect to TXPro Wall Plate Transmitters
17019	IR-EC1-6	Single Head IR Emitter w/ 3.5mm Jack
17020	IR-EC2-6	Dual Head IR Emitter w/ 3.5mm Jack
15773	SS-P1DB-WHT	White Insert punched w/ 1 9-Pin D-Sub Hole
15774	SS-P1DB-IVO	Ivory Insert punched w/ 1 9-Pin D-Sub Hole
15775	SS-P1DB-BLK	Black Insert punched w/ 1 9-Pin D-Sub Hole
15706	SS-DPLT2-WHT	White Double Gang Decora Wall Plate
15707	SS-DPLT2-IVO	Ivory Double Gang Decora Wall Plate
15708	SS-DPLT2-BLK	Black Double Gang Decora Wall Plate
16808	RK-1	1/4 and 1/2 Rack Mounting Kit
16809	RK-2	1/4 and 1/2 Rack and Module Mounting Shelf