## SW MTP 15HD A Series

TWO, FOUR, AND SIX INPUT HIGH RESOLUTION VIDEO AND AUDIO SWITCHERS WITH INTEGRATED TWISTED PAIR TRANSMITTERS



SW2 MTP 15HD A



SW4 MTP 15HD A



SW5 MTP 15HD A

The Extron SW MTP 15HD A Series of switchers are ideal for routing multiple computer-video and audio signals up to 750 feet (230 meters) using unshielded twisted pair (UTP) cable. These units will accept up to six sources, routing the selected source to an MTP receiver to feed a monitor, presentation display, or data projector.

- Two, four, and six input, one output models
- Compatible with computer-video resolutions up to 1600 x 1200
- Compatible with RGBHV, RGBS, and RGsB
- Compatible with HDTV component video (bi-level and tri-level sync)
- Transmits summed mono audio (L + R summed)
- Local balanced & unbalanced stereo audio output
- Input autoswitching capabilities
- RS-232 and contact closure control
- Versatile mounting options
- External international power supply included



## DESCRIPTION

The Extron **SW MTP 15HD** A series is a versatile family of switchers for selecting and transmitting high resolution computer-video and audio sources long distances to presentation displays over a single unshielded twisted pair cable (UTP cable). The SW2 MTP T 15HD A, SW4 MTP T 15HD A, and SW6 MTP T 15HD A are two, four and six input, one output switchers that transmit RGBHV, RGBS, RGsB, HDTV, and other high resolution video and audio signals to a compatible MTP R 15HD A receiver. The SW MTP 15HD A series can be used with any CAT 5, 5e, or 6 twisted pair cable or with Extron Enhanced Skew-Free A/V UTP cable (patent pending) for cable runs of up to 600 feet (185 meters) with XGA signals, and 450 feet (135 meters) with UXGA signals.

Each model accepts two, four, or six computer video and audio inputs on female 15-pin HD connectors and 3.5 mm stereo audio jacks. The switcher transmits the selected computer video and summed mono (L+R) audio signal to a compatible twisted pair receiver. Also, the switcher features a second audio output from a 3.5 mm captive screw connector for sending a balanced or unbalanced analog stereo audio signal to a local amplifier.

Each switcher can be controlled using the front panel or remotely via contact closure or RS-232 signals. The dual-function remote control feature allows for numerous installation and control options. For example, the switcher can be installed in a secure location, such as an equipment rack or cabinet, and the control of the switcher can be managed using the optional Extron IR 102 Universal Remote Control Kit, or Extron KP 6 Keypad Remote Control, or Extron IP Link control interface to create cost-effective solutions with maximum functionality.

Using the autoswitching feature, the switcher can be set to switch automatically to the active source. For example, a number of wall plate receptacles can be installed around a room, each routed to a different input of the switcher. When an active computer-video source is connected to the wall plate, the switcher automatically selects that input. When two or more sources are detected at the same time the highest numbered input is automatically selected. The autoswitch function can be enabled or disabled via front panel buttons.

Part of the VersaTools family of economical, compact products, the SW MTP 15HD A Series of switchers are designed for easy integration into new and existing A/V environments. The entire family of Extron MTP 15HD products sets the price/performance standard for audio/video twisted pair technology. The MTP 15HD series is a complete twisted pair system including transmitters, receivers, and switchers, providing the ability to seminorized, route, and distribute high resolution video, audio, and control signals. SW MTP 15HD A switchers are ideal for systems where high resolution video signals must be transmitted long distances to a display, or where space is limited in conduit, or for audio/video systems which cabling might be exposed or visible.

## **F**FATURES

- Inputs Two, four, and six input models available.
- Outputs Transmit a computer video and summed mono (L+R) audio signal to an MTP R 15HD A mini twisted pair receiver over any CAT 5, 5e, or 6 twisted pair cable or with Extron Skew-Free A/V UTP cable (patent pending). A 3.5 mm captive screw connector is also provided for balanced or unbalanced analog stereo audio output.
- Autoswitching Input sources are selected automatically when the switcher detects an active sync signal, making the SW MTP 15HD A switchers ideal for automatic routing and unattended operation.
- RS-232 control Rear panel, RS-232 port enables control via PC-based control software. Extron's Simple Instruction Set (SIS™) allows for quick and easy programming.
- Contact Closure Control Enables control using control products like the optional Extron KP 6 keypad remote control or IPL T CR 48 control interface.
- IR control With the optional Extron IR 102 Remote Control Kit, SW MTP T 15HD A switchers can be easily controlled with an IR 102 handheld remote.
- Compact metal enclosure 1U, quarter rack width metal enclosure
- Versatile mounting options Rack, under-desk, and projector-mountable
- Power indicator Front panel LED for easy troubleshooting
- Power supply External international power supply included (part number 70-055-01)

MTP Series	Transmission Distances														
Signal Formats	50' 15 m	100' 30 m		200' 60 m		300' 90 m		400' 120 m	450' 135 m		600' 185 m		750' 230 m	800' 245 m	1000' 300 m
Composite Video															
S-Video & Component															
640 x 480 (VGA)															
800 x 600 (SVGA)															
1024 x 768 (XGA)															
1280 x 1024 (SXGA)															
1600 x 1200 (UXGA)															

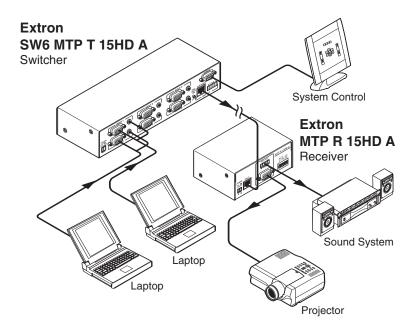
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VIDEO		CONTROL/REMOTE	– Switcher/Transmitter
Number/signal type	1 set of proprietary analog signals	Serial control port	RS-232, 9-pin female D connector (share with contact closure)
CONTROCTOR IIII	Fremale by 15	Baud rate and protocol	9600 baud, 8 data bits, 1 stop bit,
VIDEO INPUT			no parity
Number/signal type	2, 4, or 6 (depending on the model) analog VGA-UXGA RGBHV, RGBS, RGsB	Serial control pin configurations . Contact closure	RS-232, 9-pin female D connector
Connectors	2, 4, or 6 (depending on the model) female 15-pin HD	Contact closure pin configurations	(shared with serial control) 5 1 = input 1, 4 = input 2, 5 = GND,
Nominal level			6 = input 3, 7 = input 4, 8 = input 5,
Minimum/maximum levels	Analog: 0.3 V to 1 V p-p with no offset	Program control	9 = input 6 Extron's control/configuration program for
Impedance		Trogram control	Windows® Extron's Simple Instruction Se
Horizontal frequency			(SIS™)
Vertical frequency Return loss	30 Hz to 150 Hz		
DC offset (max. allowable)		GENERAL	
De onset (max. unovable)	2 4	Power	Supplied by an external power supply
VIDEO OUTPUT — r	efer to twisted pair receivers' specifications and manuals		nitters cannot supply remote power to or
		receive remote power from	
Sync Input type	RCRHV RCRS RGsR	External power supply	100 VAC to 240 VAC, 50/60 Hz, external
Input level		Danier in and a main and and	autoswitchable; to 12 VDC, 1 A, regulate
Input impedance		Power input requirements	12 VDC, 600 mA Storage -40° to +158°F (-40° to +70°C) /
Max input voltage		Temperature/numbury	10% to 90%, noncondensing Operating
AUDIO			+32° to +122°F (0° to +50°C) / 10% to
		Pack mount	90%, noncondensing Yes, with optional 1U rack shelf,
Number/signal type	1 set of proprietary analog signals	Rack Hoult	part #60-190-01 or 60-604-01; or
Connectors	I female RJ-45 ±0.1 dB channel to channel		VersaTools® rack shelf, part #60-190-20
Frequency response	20 Hz to 20 kHz +1 dR		60-604-20 Also furniture mountable with
	0.01% @ 1 kHz, 0.03% @ 20 kHz		optional Under-Desk Mounting Kit
	>100 dB at maximum output, unweighted		#70-212-01
Crosstalk	<-70 dB,@ 20 Hz to 20 kHz, +4 dBu stereo	Enclosure type	Metal
	output	Enclosure dimensions	1.75" H x 8.75" W x 3.0" D (1U high, ha rack wide) 4.4 cm H x 22.2 cm W x
Stereo channel separation	>65 dB @ 20 Hz to 20 kHz		7.6 cm D (Depth excludes connectors ar
CMRR	>43 dB @ 20 Hz to 20 kHz		toggle switch.)
AUDIO INDUT		Product weight	
AUDIO INPUT		Shipping weight	3 lbs (2 kg)
Number/signal type	2, 4, or 6 (depending on the model) stereo, unbalanced	Vibration	ISTA 1A in carton (International Safe Tran Association)
Connectors	2, 4, or 6 (depending on the model)	Listings	,
	3.5 mm mini audio jacks (tip, ring, sleeve)		CE, FCC Class A, VCCI, AS/NZS, ICES
Impedance		MTBF	
Nominal level		Warranty	
	+16 dBV, unbalanced, at <1% THD+N	NOTE: All nominal levels are at ±	10%.
<b>NOTE:</b> 0 dBu = 0.775 Vrms, 0	dBV = 1 Vrms, U dBV ≈ 2 dBU	Model	Part Numbers
AUDIO OUTPUT		SW2 MTP T 15HD A	
		SW4 MTP T 15HD A	
Number/signal type	1 set of proprietary analog signals to be sent to an MTP receiver	SW6 MTP T 15HD A	70-650-01
	1 stereo, balanced/unbalanced	Optional Accessories	
Connectors	1 female RJ-45 (for proprietary signals)	VersaTools Rack Shelf Kit	
Impodance	(1) 3.5 mm captive screw connector, 5 pole	1U Universal Rack Shelf Kit	
impedance	50 ohms unbalanced, 100 ohms balanced (for the stereo output)	Mini Under-desk Mount Kit	
Gain error	±1 dB channel to channel (for stereo	KP 6 Keypad Remote Control	60-111-20
Gunt Citor	output)	IR 102 Universal Remote Control Kit	70 224 01
Maximum level (Hi-7)	>+23 dBu, balanced, at <1% THD+N (for	kemote Control Kit	/ U-224-U I
IVIUNITIUTIT ICVCI (TIT-L)	> 123 aba, balancea, at <170 trib ii (101 1		
	stereo output) >+17 dBu, balanced at <1% THD+N (for		

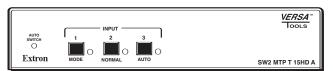
stereo output)

Stereo channel separation ......>60 dB @ 1 kHz

Specifications are subject to change without notice.



## PANEL DRAWINGS



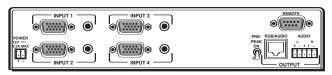
SW2 MTP T 15HD A (Front)



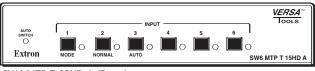
SW2 MTP T 15HD A (Back)



SW4 MTP T 15HD A (Front)



SW4 MTP T 15HD A (Back)



SW6 MTP T 15HD A (Front)



SW6 MTP T 15HD A (Back)



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