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IN1502

TWO INPUT VIDEO SCALER

- Scales composite video and S-video sources
- 16 selectable RGB output rates from 640x480 to 1366x768
- Auto-switching between inputs
- RS-232 and contact closure remote control
- Frame rate conversion
- 3:2 NTSC and 2:2 PAL pulldown detection



The Extron IN1502 is a video scaler that provides simple, high performance conversion of composite video and S-video sources for compatibility with high resolution RGB displays. It has been designed with integrator-friendly features for use in corporate, education, and medical environments.

DESCRIPTION

The **IN1502** Two Input Video Scaler provides high performance scaling of composite video and S-video signals. A host of integrator friendly features, including input source autoswitching, comprehensive picture controls, and RS-232 control make the IN1502 ideal for integrated systems in corporate, education, and medical environments where simple conversion of standard definition NTSC and PAL video to high resolution RGB video is desired.

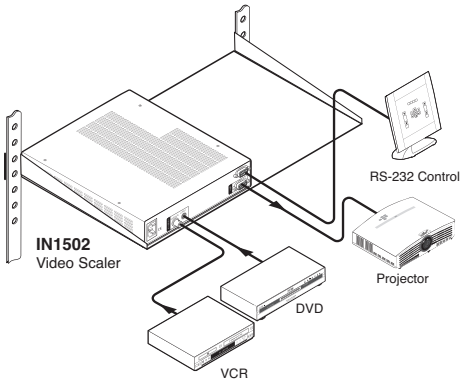
The IN1502 employs sophisticated video processing, including DMI™ - Dynamic Motion Interpolation, to create a single, optimally scaled output to match the native resolution of the display. A total of 16 selectable output rates are available from 640x480 to 1366x768 resolution.

Convenient control of the IN1502 is available via the front panel, RS-232 and contact closure, or the optional IR 901 remote control. The IN1502 is housed in a rack-mountable 1U, half rack width enclosure and is equipped with an internal power supply.

FEATURES

- **Scales composite video and S-video sources**
- **16 selectable RGB output rates from 640x480 to 1366x768**
- **Autoswitching between inputs** – Can automatically switch between input sources upon detection of active sync signals.
- **DMI™ - Dynamic Motion Interpolation** – DMI technology is an advanced motion detection and compensation method used to deliver the best aspects of still and motion video.
- **Picture controls for brightness, contrast, color, tint, detail, and horizontal and vertical positioning and sizing**
- **Frame rate conversion** – Provides frame rate conversion of the incoming video signal to the selected output refresh rate.
- **3:2 NTSC and 2:2 PAL pulldown detection**
- **Quad standard video decoding** – Uses a digital, four-line adaptive comb filter to decode NTSC 3.58, NTSC 4.43, PAL, and SECAM for integration into systems worldwide.
- **LCD menu display** – Provides easy menu access and navigation for simplified set-up.
- **Front panel security lockout**
- **RS-232 and contact closure control**
- **Optional IR 901 handheld IR remote control**
- **Rack-mountable 1U, half rack width metal enclosure**
- **Internal international power supply**

APPLICATION DIAGRAM



SPECIFICATIONS

VIDEO INPUT

Number/signal type	1 S-video 1 composite video
Connectors	(1) 4-pin mini DIN female (S-video) 1 BNC female (composite video)
Nominal level	1 Vp-p for Y of S-video and for composite video 0.3 Vp-p for C of S-video
Minimum/maximum levels	Analog: 0.0 V to 1.0 Vp-p with no offset
Impedance	75 ohms
Horizontal frequency	NTSC 3.58, NTSC 4.43, PAL, SECAM
Vertical frequency	NTSC 3.58, NTSC 4.43, PAL, SECAM
Resolution range	NTSC 3.58, NTSC 4.43, PAL, SECAM
Return loss	<-25 dB @ 5 MHz
DC offset (max. allowable)	1.5 V

VIDEO PROCESSING

Decoder	9 bit digital
Digital sampling	24 bit, 8 bits per color; 13.5 MHz standard
Colors	16.78 million

VIDEO OUTPUT

Number/signal type	1 scaled RGBHV, RGBS
Connectors	1 female 15-pin HD
Nominal level	0.7 Vp-p for RGB
Minimum/maximum levels	0.0 V to 0.7 Vp-p
Impedance	75 ohms
Scaled resolutions	640x480[1,2], 800x600[1,2], 848x480[1,2], 852x480[1,2], 1024x768[1,2], 1280x768[1,2], 1360x765[1,2], 1366x768[1,2] [1] = at 50 Hz [2] = at 60 Hz

SYNC

Output type	RGBHV, RGBS
Standards	NTSC 3.58, NTSC 4.43, PAL, SECAM
Input level	0 V to 1.0 Vp-p
Output level	TTL: 5.0 Vp-p, unterminated
Input impedance	75 ohms
Output impedance	75 ohms
Max input voltage	5 Vp-p
Max. propagation delay	20 ns
Polarity	Negative

CONTROL/REMOTE — DECODER/SCALER

Serial control port	RS-232, 9-pin female D connector
Baud rate and protocol	9600 baud, 8 data bits, 1 stop bit, no parity
Serial control pin configurations	1 = input 1 select (contact closure) 2 = TX 3 = RX 4 = input 2 select (contact closure) 5 = GND
Contact closure	9-pin female D connector (same as RS-232 connector)
Contact closure pin configurations	See pins 1, 4, and 5 above.
IR controller module	Extron IR 901 (optional)
Program control	Extron's Simple Instruction Set (SIS™)

GENERAL

Power	100 VAC to 240 VAC, 50/60 Hz, 30 watts, internal, autoswitchable
Rack mount	Yes, with optional rack shelf, part #60-190-01
Enclosure type	Metal
Enclosure dimensions	1.75" H x 8.75" W x 9.5" D (1U high, half rack wide) 4.4 cm H x 22.2 cm W x 24.1 cm D (Depth excludes connectors and knobs. Width excludes rack ears.)
Product weight	3.3 lbs (1.5 kg)
Shipping weight	6 lbs (3 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Listings	UL, CUL
Compliances	CE, FCC Class A, VCCI, AS/NZS, ICES

NOTE: All nominal levels are at ±10%.

Model	Description	Part Number
IN1502	Two Input Video Scaler	60-726-01
Optional Accessory		
IR 901	DVS/QSD/IN1502 Remote Control	70-152-01

Specifications are subject to change without notice.

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