

# Extron Electronics

INTERFACING, SWITCHING AND DISTRIBUTION



High resolution line quadrupler

Quad-standard decoder (NTSC 3.58, NTSC 4.43, PAL & SECAM)

S-Video and composite video inputs

Three-line adaptive comb filter

Motion mode compensation

RGB, RGBS or RGBHV outputs

RS-232/contact control

Auto-switchable inputs

Triple-split screen mode

Output sync polarity switch



# APPLICATION

Extron's SENTOSAxi is a high resolution, digital video line quadrupler which converts interlaced video into non-interlaced video. The line quadrupler converts the two-field frame into a single non-interlaced frame producing a brighter, higher resolution picture. The output video frame consists of 1,050 non-interlaced lines that virtually eliminates visible scan lines even on very large viewing screens.

The SENTOSAxi has a high quality three-line adaptive comb filter that eliminates most of the chroma noise found in standard composite video signals. In addition, an internal TBC (Time Base Corrector) actually cleans-up low quality videotape signal noise (common to VHS tape players) for a more stable and sharper image. Motion mode compensation virtually eliminates the "jaggies" commonly found on video line quadruplers so that the image is smoother. With these features the SENTOSAxi provides a far superior output than any other line quadrupler in its price class.

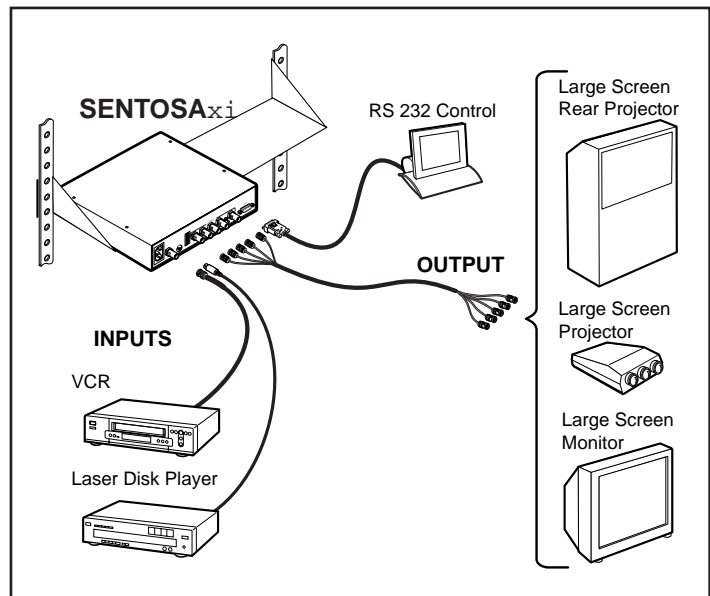
The SENTOSAxi is a universal line quadrupler with an internal two input switcher— one S-Video input and one composite video input. Both inputs are front panel selectable, remote selectable, as well as "auto-switchable". With the use of a high quality quad-standard decoder the SENTOSAxi is compatible with all international video formats including NTSC 3.58, NTSC 4.43, PAL and SECAM.

# FEATURES

- **Quad-standard decoder**— The SENTOSAxi is compatible with all international video formats including NTSC 3.58, NTSC 4.43, PAL and SECAM.
- **Line quadrupler**— Quadruples the resolution of standard video from 525 interlaced lines at 15 kHz to 1050 non-interlaced lines at 63 kHz for a clearer, brighter output.
- **Motion mode compensation**— With motion mode compensation, the SENTOSAxi virtually eliminates the "jaggies" found in line quadrupled video.
- **Picture controls**— Picture controls include color, hue (tint), horizontal shift and contrast for each input. The SENTOSAxi will save picture controls for each of its two inputs.
- **Demo-mode**— Built-in "demo mode" allows a triple-split screen of video, line doubled and line quadrupled video side by side.
- **RS-232 control**— A rear panel RS-232 serial port provides access for a third-party remote control system.
- **Auto-switchable inputs**— SENTOSAxi will automatically select whichever input has a signal present (in auto-switch mode), perfect for video loop-back feature of the System 8 and 10 PLUS switchers.
- **Universal compatibility**— The SENTOSAxi outputs either RGB, RGBS or RGBHV signals at 63 kHz.
- **Output sync polarity**— Sync polarity can be adjusted through rear panel dip switches (positive or negative H&V) to allow for any projector to recognize the SENTOSAxi input versus a standard VGA input and save different convergence, brightness and contrast settings.
- **Rack mountable**— The SENTOSAxi fits into a 1U high, 1/2 rack width and has a metal enclosure.

# SPECIFICATIONS

<b>Inputs</b>	
Video level .....	0.7 - 1 volt p-p
S-Video level (Y/C) .....	Y— 0.7 volts p-p, C— 0.3 volts p-p (burst)
Connectors.....	Video— female BNC S-Video— female 4 pin mini-din
Impedance .....	75 ohms
<b>Outputs</b>	
Video level .....	0.7 volts p-p
Sync level .....	4-5 volts p-p (TTL)
Sync polarity .....	Composite- negative H&V - positive or negative, dip switch selectable
DC offset .....	0.1 volt (max)
Connectors.....	5 female BNCs
Impedance .....	75 ohms
Remote control .....	RS-232 and contact closure
Bandwidth .....	50 MHz (-3 dB)
MTBF .....	30,000 hours (demonstrated)
Storage temp .....	-40° C to +70° C (-40° to 158° F)
Operating temp .....	0° C to +50° C (-32° to 122° F)
Humidity .....	10% to 90% non condensing
Vibration.....	NSTA 1A in carton
Dimensions.....	1.75"H x 8.75"W x 9.5"D 4.45 x 22.22 x 24.13 cm
Rack mountable .....	Yes, 1U shelf (Part # 60-190-01)
Weight.....	5 lbs (2.3 kg)
Approvals .....	UL, CE mark
Power supply.....	100-240 VAC 50/60 Hz Internal auto-switchable
Warranty.....	Two years, parts & labor
Part number .....	60-229-02



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