

Extron Electronics

INTERFACING, SWITCHING AND DISTRIBUTION



LANCIAxi - LINE DOUBLER

High resolution
line doubler

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

RGsB, RGbS or
RGBHV outputs

RS-232/contact control

Auto-switchable inputs

Split screen mode

Output sync
polarity switch



APPLICATION

Extron's LANCIAxi is a high resolution, digital video line doubler which converts interlaced video into non-interlaced video. The line doubler converts the two-field frame into a single 525 line non-interlaced frame producing a brighter, higher resolution picture. The additional lines provide more light output and make the overall image brighter.

The LANCIAxi 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 doublers so that the image is smoother. With these features the LANCIAxi provides a far superior output than any other line doubler in its price class.

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

FEATURES

- **Quad-standard decoder**— The LANCIAxi is compatible with all international video formats including NTSC 3.58, NTSC 4.43, PAL and SECAM.
- **Line doubler**— Doubles the resolution of standard video from 525 interlaced lines at 15 kHz to 525 non-interlaced lines at 31.5 kHz for a clearer, brighter output.
- **Motion mode compensation**— With motion mode compensation, the LANCIAxi virtually eliminates the "jaggies" found in line doubled video.
- **Picture controls**— Picture controls include color, hue (tint), horizontal shift and contrast for each input. The LANCIAxi will save picture controls for each of its two inputs.
- **Demo-mode**— Built-in "demo mode" allows split screen of video and line doubled video side by side.
- **RS-232 control**— A rear panel RS-232 serial port provides access for a third-party remote control system.
- **VGA mode**— Conveniently converts video signals to 480 lines of non-interlaced VGA. This VGA output allows you to plug directly into digital display devices for RGBHV signal transmission.
- **Auto-switchable inputs**— The LANCIAxi will automatically select whichever input has a signal present (in auto-switch mode), ideal for video loop-back feature of the System 8 and 10 PLUS switchers.
- **Universal compatibility**— The LANCIAxi outputs either RGsB, RGBS or RGBHV signals at 31.5 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 LANCIAxi input versus a standard VGA input and save different convergence, brightness and contrast settings.
- **Rack mountable**— The LANCIAxi fits into a 1U high, 1/2 rack width metal enclosure.

SPECIFICATIONS

Inputs

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

Outputs

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

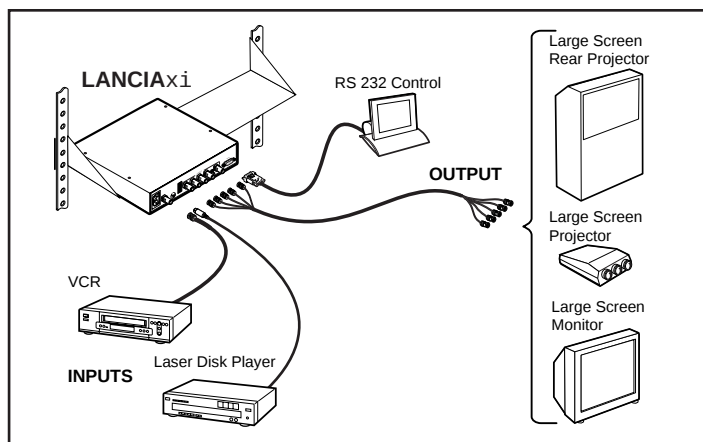
Sync output frequency

NTSC 3.58/4.43	31.25 kHz horizontal 60 Hz vertical
PAL/SECAM.....	31.5 kHz horizontal 50 Hz vertical

**when VGA mode is active vertical frequency forced to 60 Hz with any video input*

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°F to 158°F)
Operating temp.....	0°C to +50°C (32°F 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	60-213-02



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