

-High resolution video line doubler -Multi standard digital decoder- (PAL ,NTSC & SECAM)

SPECIFICATIONS - APPLICATION

Designed to optimize the signal of any projector, CRT, LCD DLP or plasma.

Home Theater and Multimedia presentation never looked better!

LD 1000 HQ LINE DOUBLER is a high resolution, real time digital video line doubler which converts interlaced video into non-interlaced video. The LD 1000 HQ can improve sometime dramatically the display quality of video. The improved details and the absence of visible line structure make the LD 1000 HQ a new frontier in line doubling.

The line doubler converts the two-field frame into a single 625/525 line non-interlaced frame producing a brighter, higher resolution picture. The created lines generally provide more light output and make the overall image brighter. Virtually eliminates or reduce the video noise thank's to a high quality three-line adaptive comb filter that eliminates most of the chroma noise found in the standard composite video signals.

INPUTS

S-VHS and composite video inputs front panel or remote selectable via RS 232.

-1 composite PAL & NTSC with three-line adaptive comb filter

-1 standard composite

-1 S-VHS

OUTPUT

4 outputs

-RGS or RGBHV outputs

-RS-232 control

-Active line length up to 768 pixels

MOTION MODE COMPENSATION

-Reduces motion distortion and enhances vertical resolution

Three-field processing mode is designed for motion video sequences performing both temporal and vertical filtering to offer the highest quality line doubling mode for motion sequences.

PICTURE CONTROL

-Picture controls include color, hue (tint), contrast, brightness, horizontal, shift, color temperature and individual gain for RGB for each input. A backlit LCD window on the LD 1000 HQ front panel can display menus to adjust the picture controls and select memory settings.

-10 MEMORY BANKS: The LD 1000 HQ can save and memorize up to 10 picture controls and setup totally for any of its three inputs. Settings used for each input (composite 1 and 2, S-Video,) are stored in memory and an additional 7 custom settings also provide storage of presets, eliminating the need to repeat fine-tuning once the desired setting is established.

-RS-232 CONTROL: A rear panel RS-232 serial port provides access for a third-party remote control system to full adjustment of any features or functions.

-OUTPUT SYNC POLARITY Sync polarity can be adjusted through an internal dip switch (positive or negative H&V)

FURTHER FEATURES

DIGITAL COLOR TRANSIENT IMPROVEMENT increase the sharpness of colour transitions.

CORING STAGE with controllable threshold to eliminate noise in luminance signal

INTERPOLATION FILTER suitable for both formats to increase the data rate in chrominance path

TECHNICAL SPECIFICATIONS

INPUTS

Standard	525/625 line 2:1 interlace
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

RS-232 Loop out on all input

OUTPUT

Video level 0.7 volts p-p (0 to 1.5 volts p-p adjust)

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

DC offset 0.2 volt (max)

Connectors 5 female BNCs - 4 female DB9

Impedance 75 ohms , 510 ohms sync

Remote control RS-232

Bandwidth 15 MHz input and 30 MHz output

Power supply 100-240 VAC 50/60Hz Internal auto-switchable

LD 1000 HQ