

Video processing evolved.

# TheaterSync™



## SUPERIOR VIDEO PROCESSING

## PIXEL BASED MOTION ADAPTIVE DE-INTERLACING

## MULTIPLE VIDEO CADENCE AND VIDEO/FILM DETECTION

## TEMPORAL AND CODEC NOISE REDUCTION

## DETAIL ENHANCEMENT

## 1024-TAP SCALING

## 10-BIT PROCESSING, SCALING & WARPING

**THEATERSYNC BRINGS THE POWER** of Silicon Optix HQV™ (Hollywood Quality Video) technology to NEC's full line of projectors and plasma displays. TheaterSync is a high-performance video processor that accepts standard and high definition video signals from almost any consumer or professional device (e.g. DVD, VCR, cable or satellite set-top box, off-air tuner, etc...). With seven inputs, including component, DVI, HDMI and SD/HD SDI, TheaterSync also acts as a switcher between all inputs. Sources connected to the TheaterSync are processed and then output to the connected display with the correct aspect ratio and native resolution. TheaterSync optimizes the signal output to the display by utilizing:

- State of the art, motion adaptive de-interlacing for both SDTV and HDTV which results in video with no interpolation errors causing unwanted horizontal lines during motion.
- Temporal Recursive noise reduction reduces random noise in static areas of the image by analyzing multiple fields using a motion adaptive, noise adaptive approach.
- Codec noise reduction (includes mosquito noise reduction and block artifact removal) eliminates edge and block noise caused by mpeg compression.
- Detail enhancement improves edge contrast and depth without causing ringing or haloing.
- Fully automatic detection and correction for multiple film/video cadences (e.g. - 3:2, 2:2, vari-speed, 5:5, 6:4, 8:7, etc.) results in video that has no detail loss due to missing field information.
- Adaptive brightness-contrast enhancement for crystal, clear images.
- Colorspace conversion and color temperature adjustment at 10 bits per component enables processing of over 1 billion colors providing finer detail and greater dynamic color range matching the input video source.
- Audio delay (lip-sync) correction enables the audio to be in sync with the video.
- Geometric correction capability for extreme off-axis keystone correction provides +/- 40° of horizontal and 30° vertical keystone correction with minimal image loss allowing flexible projector display placement.



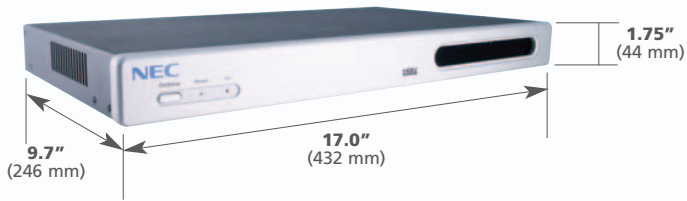
TheaterSync utilizes HQV™ image processing from Silicon Optix.

*Because It's your Image***NEC**

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## INPUT VIDEO CONNECTIONS

- Composite Video, RCA Connector (NTSC, PAL and SECAM compatible)
- S-Video, 4-pin DIN (NTSC and PAL compatible)
- Component YPbPr, BNC (SDTV and HDTV compatible)
- Analog RGB, 15-pin DSUB (VGA to UXGA compatible)
- DVI (VGA to QXGA)
- HDMI w/HDCP
- SDI, BNC (includes SD and HD-SDI and audio)

## OUTPUT VIDEO CONNECTIONS

- Analog RGB (VGA to UXGA including WXGA, HD)
- DVI (VGA to QXGA including WXGA and NEC 1365x768, HD)
- HDMI w/HDCP

## INPUT AUDIO CONNECTIONS

- S/PDIF
- TOSLINK
- HDMI

## OUTPUT AUDIO CONNECTIONS

- S/PDIF
- TOSLINK
- HDMI

## CONTROL CONNECTIONS

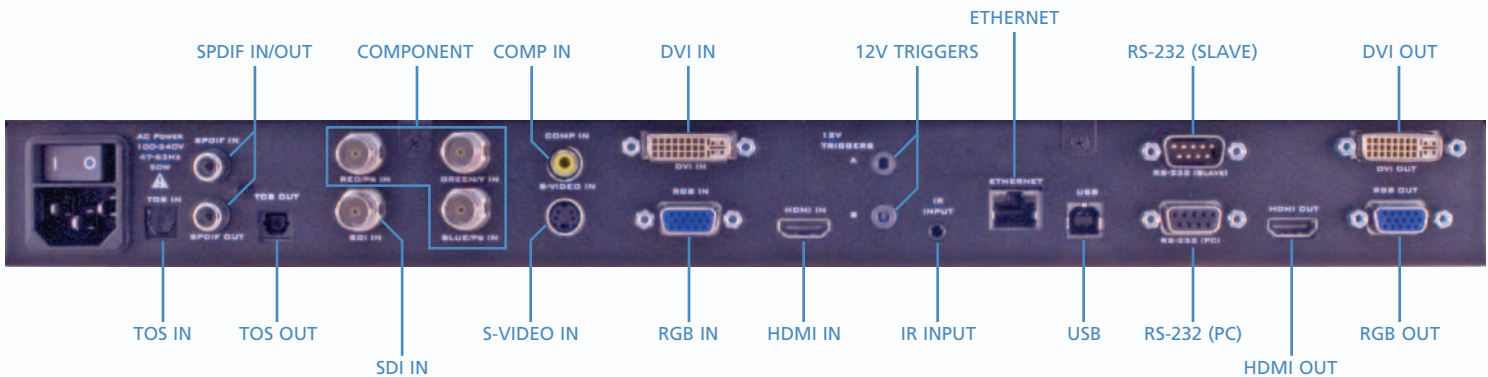
- IR Remote Control
- RS-232, 9-pin DSUB
- USB
- Ethernet

## PHYSICAL CHARACTERISTICS

- Dimensions: 17.0" x 9.7" x 1.75" (432 x 246 x 44 mm)
- Weight: 7.0 lbs. (3.2 kg)
- Power: 100-240V, 47-63Hz, 72W

## MENU STRUCTURE

- Input Select
- Picture Control (Brightness, Contrast, Sharpness, Gamma Correction, Black Level, Color Temperature, Color, Hue/Tint)
- Setup (Video System, Background Color, Reset, Menu Position)
- Language
- Info (Input Resolution, H and V Frequency, Output Resolution, Serial Number and IP Address)
- Advanced (Horizontal and Vertical Keystone Correction, Projection Mounting, Video Processing Mode, HQV Film Mode, Adaptive Brightness/Contrast and HQV Noise Reduction)



For more information, call 1.800.NEC.INFO  
or visit [www.necvisualsystems.com](http://www.necvisualsystems.com)

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