

Boost the picture quality of all your home theater and A/V presentation displays with HDQ video processing, plus gain the convenience of A/V source switching and centralized calibration.



Vision HDQ™ High Definition Video Processor

Vision HDQ™ Video Processor Features

- Ten inputs (1 Composite, 2 S-Video, 2 SD/HD analog, 4 DVI-I, and 1 SDI)
- All video processing features are supported for HDCP encrypted DVI-D inputs
- All video processing features are supported for HD analog YPBPR and RGB inputs
- Component/RGB analog and DVI-D input accept 720p and 1080i sources
- Transcoding is supported for both digital and analog SD and HD inputs
- Per-pixel motion-adaptive video deinterlacing for SD and HD source sources
- 3:2, 3:3 and 2:2 film pull-down frame-reconstruction for SD sources
- 3:2, 3:3 and 2:2 film pull-down frame-reconstruction for HD sources
- Four independent configuration memories for each input
- Black-level, contrast, calibration per memory
- Color, red-color-offset, green-color-offset calibration per memory
- Hue, red-Hue-offset, green-Hue-offset calibration per memory
- Y/C delay calibration with independent CB and CR delay
- Detail enhancing scaler
- Output resolution from 480p to 1080p, plus 1080i
- Output width programmable in pixel increments
- Programmable output color format (SD and HD component, plus RGB)
- Programmable vertical refresh rate
- Programmable screen aspect ratio
- DVI-D output with HDCP encryption support
- BNC connectors for the analog output
- Backlit infrared remote control with on-screen menu system
- RS232 serial interface for control and software-updates
- Silent operation (no fan)

Vision HDQ™ Video Processor Specifications

Inputs

Ten standard inputs: One composite, two SVideo, two SD/HD component/RGB, four DVID/DVI-A inputs and one SDI input.

Composite, SVideo and component inputs support NTSC (M, Japan, 4.43), PAL (B, D, G, H, I, M, N, Nc) and SECAM (B, D, G, K, K1, L).

Component input color-space can be selected as SDTV or HDTV.

Absolute maximum rating is ± 2 volts, referenced to case ground, for analog video inputs.

Processing

Per-pixel motion adaptive deinterlacing and inverse-telecine for SD and HD sources.

Proprietary scaling algorithms provide detail-enhancement.

Adjustments for sizing, black-level, contrast, color, Hue, color/Hue offset, and Y/C delay.

11-point parametric grayscale and gamma calibration.

Source aspect ratio selection of 4:3, 4:3 nonlinear-stretch, letterbox, 16:9 and 1.85.

Supports two zoom steps for each source aspect ratio.

Four independent configuration memories per input.

Output

DVI-D/HDCP and analog outputs to 1920 by 1080 at up to 60 Hertz.

The analog output supports RGB and YPRPB. Both formats support bi-level and tri-level sync. RGB also supports discrete horizontal and vertical, or discrete composite, sync with programmable polarities.

YPRPB output color-space can be selected as SDTV or HDTV. For red, green, blue and Luma, the nominal output is 1.0 volts peak-to-peak with embedded sync, and 0.7 volts. For PR and PB, the peak-to-peak is 0.7 volts, including sync. Output levels are specified driving an external 75-ohm load.

Discrete sync outputs drive TTL levels into an external 75 ohm load.

Eight independent output configuration memories are supported.

Resolution is programmable from 480p to 1080p in scanline increments, plus 1080i.

Vertical refresh rate is programmable from 48 to 120 Hertz in steps of 0.01 Hertz. This varies with resolution.

Output aspect ratio is programmable from 1.33 to 2.35 in steps of 0.01.

Output size and position are programmable in pixel increments.

Miscellaneous

Menu based setup.

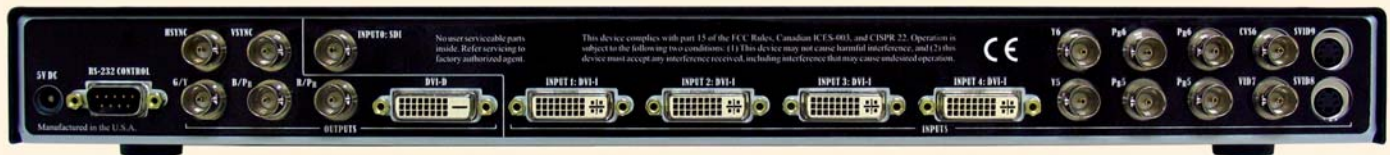
Infrared remote, or RS232 serial control interface.

Dimensions: 17" (W) by 10" (D) by 3.5" (H).

Power consumption: 25 watts nominal.

The power supply input rating is from 100 to 240 volts at 47 to 63 Hertz.

Silent operation (no fan).



The VisionHDQ™ Video Processor provides a cornerstone for the ultimate home theater or professional A/V video presentation. The HDQ provides input switching, deinterlacing, digital filtering, signal processing, and detail enhancing scaling resulting in improved video resolution and detail.

Ten inputs provide compatibility with most video sources including digital SDI sources. The DVI-D or DVI-A output has selectable resolutions to

1080p providing a high resolution output signal for both analog displays or digital DVI or HDMI displays.

The VisionHDQ provides unprecedented output and input calibration capabilities with its internal configuration memories. Eight independent output and four input configurations are possible. It further features an 11 point gamma/greyscale calibration capability along with black level, white level, and color & hue adjustments.

**Boost Your Display
Picture Quality
Today!
Call SENCORE
to Discuss the
Vision HDQ!**