Harmony 4ES™

4-Channel MPEG-2 PCI Card

VISUAL CIRCUITS

The Harmony 4ES™ PCI Card from Visual Circuits is an industrial strength, multi-channel MPEG-2 decoder card engineered for easy integration and guaranteed performance. It's ideal for systems integrators who need a proven product that easily meets— and exceeds — the technical demands of professional multimedia applications.

Perfect for Looping, Scheduled or On-Demand Video Applications

Harmony 4ES features four independent output channels of Component, RGB (sync on green), S-video or Composite output, along with Dolby Digital™ audio. It provides a 256-color, on-screen display feature that allows digital content (graphics and text) to be overlaid on the video with varying levels of transparency. Plus, Harmony's composite, genlocked A/V input allows seamless switching between MPEG and "live" video.

Harmony's wide range of scalable and adaptable features make it perfect for any looping, scheduled or on-demand video applications. And, Harmony's technical track record makes it attractive for professionals wanting ease of integration and peak performance.

Software Tools for Ease of Integration

Windows and Linux drivers are available with Harmony 4ES, as well as an extensive programming library (C or Visual Basic). Sample source code with function calls is also provided to help integrators to accelerate the development of advanced digital video playback applications.

The team at Visual Circuits can also provide direct technical support to help integrators write custom drivers for unique applications with strict requirements.

> FEATURES
- Four independent output channels
- High-quality MPEG-2 video playback
- MPEG-4 ready
- Component, RGsB, S-video and Composite output
- 256-color, on-screen display with adjustable transparency
- Windows and Linux drivers with full Software Development Kit
- Genlock/External A/V Input
- Dolby Digital™ output
- NTSC/PAL transcoding

> BENEFITS
- Reduces cost per channel in multi-channel systems
- Offers greater flexibility and control than "consumer" video cards
- Provides ability to operate multiple boards in one server
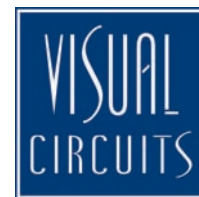- Integrates high-quality video and graphics with transparency

Harmony 4ES PCI Card

Designed for systems integrators who need a proven product that offers high-quality video with guaranteed application performance.

Harmony 4ES Decoder Card — Technical Specifications

VISUAL CIRCUITS

VIDEO OUTPUT
- Component (YPbPr)
- RGB (sync on green)
- S-Video & Composite

AUDIO OUTPUT
- Balanced or unbalanced analog audio
- Dolby Digital audio
- Stereo PCM audio via S/PDIF

VIDEO STANDARDS
NTSC/ PAL (automatic transcoding)

DECOMPRESSION
MPEG-1 ISO 1172 and MPEG-2 ISO1 3818 audio, video bit streams;
Decodes Main Profile at Main Level MPEG-2 streams; Decodes transport and program streams, elementary audio and video streams, as well as unencrypted DVD files (.vob).

CHIP SET
Sigma EM8471

ON-SCREEN DISPLAY
256-color (8-bit)
16-level adjustable transparency

GENLOCK / EXTERNAL A/V INPUT
One external video source input. All output channels are genlocked to that source. Any number of output channels may display the input source.

VIDEO SWITCHING
Can switch any combination of channels to an external audio/video source.

A/V BREAKOUT
25-pin D-sub, analog stereo audio & S/PDIF digital audio output via dual 3.5 mm jacks

SOFTWARE OPTIONS

OPERATING SYSTEM
Supports Linux, Windows 2000 or NT 4.0

SDK
A complete C or Visual Basic programming library with sample source code and function calls.

SERIAL COMMANDS
Complete serial command library (RS-232) and ability to be controlled over a standard network.

MINIMUM SYSTEM REQUIREMENTS

CPU PROCESSOR
Intel or AMD-based 600 MHz/equivalent (1 GHz or higher recommended)

SYSTEM MEMORY
256 MB PC-100 (PC-133 recommended)

HARD DISK
Ultra ATA/66 or higher

AUDIO RECEIVER
Dolby Digital audio receiver/decoder and speakers required for surround sound