



Harmony 4ES

Ideal for demanding, industrial-strength multimedia applications, Harmony PCI cards provide robust, multi-channel MPEG-2 decoding. With high-quality, 256-color on-screen display, Harmony enables you to overlay graphics or text on video footage with varying levels of transparency and composite. And with genlocked AV input, you can smoothly switch between live video and MPEG files.

### Harmony PCI Cards

Harmony cards offer a wide range of scalable and adaptable features, including NTSC/PAL transcoding and Dolby Digital™ output, making them ideal for looping, scheduled, or on-demand video applications. With a proven track record of reliability and unparalleled performance, Harmony cards are perfect for video professionals who want peak performance and ease of integration.

Both Windows and Linux drivers are available for Harmony cards, along with an extensive C or Visual Basic programming library. Sample source code and function calls are included to accelerate the development of advanced digital video playback applications.

### Models

#### Harmony 2ES PCI Card

Engineered for easy integration and guaranteed performance, the Harmony 2ES PCI Card provides two independent output channels and allows digital content to be overlaid on video, with seamless switching between MPEG and live content. The Harmony 2ES provides greater flexibility and control than consumer video cards, including higher channel density per PCI slot and lower cost per channel in multi-channel systems.

#### Harmony 4ES PCI Card

Featuring four independent output channels for component, RGB, S-video, or composite output, and Dolby Digital audio, the Harmony 4ES PCI Card delivers industrial-strength MPEG-2 decoding. With the Harmony 4ES, you can operate multiple boards in one server, integrate high-quality video and graphics with transparency, and reduce the cost per channel in multi-channel systems.

### Applications

- Events and Entertainment
- Healthcare
- Hospitality
- Retail

## Support

When you purchase digital signage solutions from Focus Enhancements, you not only receive reliable products that deliver superior performance every day, but you also receive unconditional service and support from a team of seasoned video professionals. All products are backed by comprehensive warranties and optional support contracts that cover installation, training, 24/7 phone support, and priority parts replacement.

## Consultation

With extensive experience in designing, configuring, and integrating digital signage solutions for leading organizations around the world, the Focus team can help you select the right products for your needs. If you have special requirements, solution consultation and custom configuration services are available.

## Technical Specifications

MODELS	Harmony 2ES	Harmony 4ES
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, and unencrypted DVD files (.vob)	
Chip Set	Sigma EM8471	
On-Screen Display	256-color (8-bit) 16-level adjustable transparency	
Video Switching	Switch any combination of channels to an external audio/video source	
A/V Breakout	25-pin D-sub, analog stereo audio via dual 3.5mm jacks and S/PDIF digital audio output	
Software Options	Complete C or Visual Basic programming library with sample source code and function calls Complete serial command library (RS-232) and ability to be controlled over a standard network	
Minimum System Requirements	Operating System: Linux, Windows Processor: Intel or AMD-based 600 MHz/equivalent (1 GHz or higher recommended) Memory: 256MB PC-100 (PC-133 recommended) Hard Disk: Ultra ATA/66 or higher	

### Corporate Headquarters

Focus Enhancements  
1370 Dell Avenue  
Campbell, CA 95008  
P 800 338 3348 (toll free)  
P 408 866 8300  
F 408 866 4859  
E sales@focusinfo.com  
E asiapac@focusinfo.com

### European Headquarters

COMO Computer & Motion GmbH  
A Focus Enhancements Company  
Lise-Meitner-Str.15  
24223 Ralsdorf  
Germany  
P +49 4307 8358 0  
F +49 4307 8358 99  
E emea@focusinfo.com

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