

# VE12 HDMI/Progressive Video Card



HDMI and Progressive outputs for Meridian's 800 optical disc player

Single interconnect carries HD video and digital audio\*

High Resolution Digital video output to HDMI specifications with HDCP content protection

Scaling and de-interlacing based on Emmy® Award winning DCDi® technology by Faroudja®

Progressive Component analogue outputs

Extensive User controls

**HDMI**™  
HIGH DEFINITION MULTIMEDIA INTERFACE

**The 800 optical disc player from Meridian has received equally high praise for the unparalleled quality of its video as it has for its world-beating audio performance. The standard VE00 card provides Composite, S-Video and Component outputs, while the VE10 card, released in July 2002, added progressive component video with Faroudja DCDi de-interlacing for the ultimate in analogue video quality.**

**The new VE12 HDMI/Progressive card provides the 800 with high definition, uncompressed digital video and audio\* to the HDMI (High Definition Multimedia Interface) specification, and de-interlaced progressive analogue video.**

BOOTHROYD STUART  
**MERIDIAN**®

800  
series

# VE12 HDMI/Progressive Video Card

## Outline Specifications

### Outputs:

Digital video: 1 x HDMI connector (digital only). Video resolution: 480p, 576p, 720p, 1080i. 2-channel digital audio\*: Dolby Digital, DTS, etc bitstreams or 2-channel PCM up to 24-bit, 48kHz. Includes HDCP content protection

Analogue video: 1 x Progressive (NTSC 480p; PAL 576p) Component video (Y, Pr, Pb,) output on three gold-plated BNC connectors.

### DSP:

Sage Faroudja Scaler and Deinterlacer

### Card size:

2U.

*NOTE: VE12 requires VE00 to be installed.*

# HDMI™

HIGH DEFINITION MULTIMEDIA INTERFACE

HDMI carries standard, enhanced or high-definition digital video plus digital audio\* down the same digital cable, without compression.

Intel's HDCP (High-bandwidth Digital Content Protection) is used to maintain the integrity of the high-resolution signal.

HDMI offers superior performance as it can carry HDTV-resolution digital video signals without compression – a capability not possible with any other current interface.

Digital display devices such as plasma and DLP systems can offer exceptional performance.

Using the VE12, the data supplied to the device can be pixel-mapped to the display, eliminating processing artefacts.

An initial handshaking procedure automatically determines the capabilities of the connected display. The digital image is pixel-mapped to the display and includes native-rate scaling, in which a dialogue occurs between the card and the display, enabling the card to deliver a signal that is specific to the display system in use, for the ultimate in digital video performance.

The Meridian VE12 card implements HDMI Phase 1, and the HDMI output supports uncompressed high-definition video signals including 480i, 480p, 576p, 720p and 1080i resolutions.

*\*Only new (manufactured July 2004 onwards) 800 units are able to deliver audio as well as video via HDMI.*

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Digital audio capabilities include all formats used for DVD-Video applications, including 2-channel PCM signals up to 24-bit, 48 kHz, plus bitstream formats corresponding to all the audio formats available for DVD-Video, including Dolby Digital and DTS.

The VE12 incorporates state-of-the-art digital image processing for scaling and aspect ratio adjustment, including automatic sensing of disc flags, and employs extremely high quality conversion and studio-grade, high bandwidth, low noise video circuits in a skilfully designed impedance-controlled 6-layer PCB. This, combined with the 800's legendary low noise picture decoding, presents a progressive output that sets new standards.

When fitted with a VE12, the 800 provides a wide range of user adjustments. User control is provided for aspect ratio (4:3, 16:9, 16:9 LB, 14:9), sharpness and gamma (0.8–1.2), brightness, contrast and NTSC hue.

The VE12 card also offers broadcast-quality progressive component analogue video outputs on three BNC connectors, with 480p (NTSC) and 576p (PAL) maximum resolution.

The outputs incorporate Faroudja DCDi technology, which provides per-pixel motion-adaptive de-interlacing to allow highest quality, artefact-free component video performance without the need for an external line-doubler.

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