



MERIDIAN

DVP1080

Digital Video Processor



The DVP1080 Digital Video Processor from Meridian sets the standard for 1080p full-bandwidth High Definition video scaling and upsampling, and supports a wide range of resolutions. The DVP1080HD includes both analogue and digital outputs, while the digital-only output version, the DVP1080MF, is ideal for connection to digital display devices such as the Meridian MF10 D-ILA projector.

Employing the latest Faroudja digital video processing technology, the DVP1080 delivers superior HD processing, and is the ideal companion for today's advanced 1920x1080p digital displays, converting 1080i interlaced HD video to a clean, 1080p progressive format suitable for HD projectors, flat-panel displays and other formats as well as, in the case of the DVP1080HD, supporting analogue progressive component-based display systems.

For 35 years, Faroudja has been the leader in video processing technology. Faroudja was the first, over six years ago, to offer 1080p HD video processing: today, that expertise is critical for the next generation of digital displays.

The DVP1080HD includes full High Definition cross-conversion and Standard Definition processing, with patented technology for deinterlacing, motion tracking,

colour fidelity and image detail enhancement, making it an essential central component of any high-performance home theatre installation. All types of displays benefit from this processing, including plasma, DLP, LCD, D-ILA and CRT-based devices.

If you own an HD-capable display device, you need the power and flexibility of the DVP1080HD to enable it to deliver its best – from any source.

High Definition Processing

1080i High Definition signals are converted to the selected output rate using Faroudja's patented 3:2/2:2 Pull-Down and MADI (Motion Adaptive Deinterlacing) technology. In addition, a high bandwidth HD video processing circuit offers superior 1080i to 1080p conversion.

Adjustable Optimised Output

The DVP1080 offers output resolutions that can be selected or changed as needed. Different scan rates can be stored for multiple display installations. Each stored scan rate profile recalls 30 different parameters to ensure the output is properly optimised for that resolution. As a result, the DVP1080 will produce the highest quality image with any display and any video source.

Product highlights

Full spec 1080p High Definition output from almost any source, analogue or digital

Analogue/Digital output version (DVP1080HD) and Digital-only output version (DVP1080MF) for digital displays

Advanced Faroudja 10-bit scaling and upsampling

Ideal complement for any HD-capable display

Analogue Composite, S-Video, Component and RGB inputs

DVI input and output with HDCP

Analogue component and PC-compatible outs (DVP1080HD only)

Screen trigger and external IR input

RS-232 control including pass-through to Meridian projectors

Auto-blanking display

Main image shows DVP1080MF; DVP1080HD cosmetics differ

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DVP1080HD rear panel. (The DVP1080MF does not include analogue outputs.)

Processing

Faroudja has applied its 60 patents and 35 years of experience in perfecting video into designing the DVP1080, to provide the very highest quality images for all displays – analogue or digital. Technology for colour, detail and motion processing combine to produce an image of such quality that it could never have been produced simply by using the video circuitry built in to a digital display.

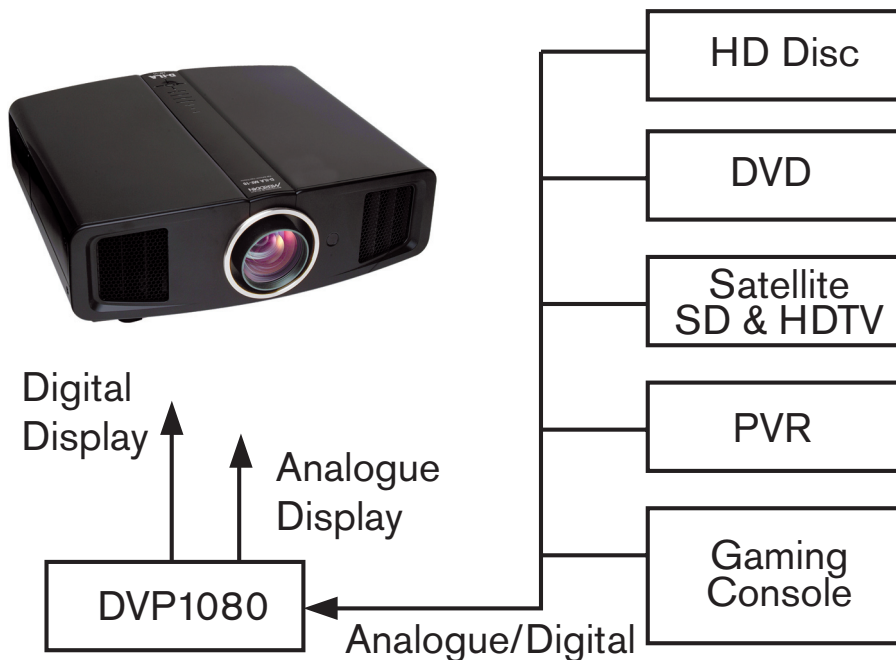
Other features include TrueLife® 12 Step Detail Processing and Motion Adaptive Deinterlacing with patented Video Optimization by Faroudja and 3:2/2:2 pull-down technology. The DVP1080 includes digital DVI and analogue RGBHV/YPrPb inputs and outputs (analogue outputs not included on the DVP1080MF).

Powerful signal processing ensures the maximum possible image quality on analogue and digital outputs, which are fully HDCP compatible.

The DVP1080 includes auto-detection of HD, PC or 480/576i inputs and includes aspect ratio control and image shift adjustments, an internal test pattern generator, HDTV pass-through (computer input pass-through additionally provided on DVP1080HD).

The DVP1080 has a compact single (1U) rack space form-factor and is equally at home in PAL and NTSC environments.

Infrared and RS232 control is provided, including pass-through of projector commands.



The Digital Connection Digital projectors and plasmas offer the highest image quality when a DVI or HDMI input is used. By eliminating the analogue and digital conversion in the display, the image exhibits finer detail and fewer digital artifacts. The DVP1080 takes this even further for high definition signals by adding a new HD processing circuit for significantly improved performance.

Outline Specifications

Processing

- 10-bit signal path; 1080i deinterlacing with MADI (Motion Adaptive Deinterlacing) and 3:2 (NTSC)/2:2 (PAL) pulldown
- High Bandwidth Mode: full resolution 1920x1080p (1080i is deinterlaced without scaling)
- Enhanced mode: provides superior image control capabilities

Format

- NTSC/PAL

Inputs

- Composite (BNC) 1v pp
- S-Video (4-pin DIN) Y - 1v pp, C - 700mv pp
- Component (BNC) 480i/480p/720p/1080i Y - 1v pp (SMPTE), Cr - 700mv pp, Cb - 700mv pp
- RGB (BNC) 480i/480p/720p/1080i Comp. Sync - 1v pp, RGB - 700mv pp
- PC (D15F) Pass-through
- DVI - I (female) Digital (0-255/16-235)

Outputs

Digital (DVP1080HD and DVP1080MF):

- DVI - I (female) digital only, 0-255, HDCP Compliant

Analog (DVP1080HD only):

- RGBHV (BNC & D15F)
- YPrPb (BNC & D15F)

Output Resolutions

800x600	1024x768DILA*
1280x720	1280x768
1280x1024	1366x768
1400x788	1400x1050
1440x960	1920x540
1920x1080	

(*selection of 1365x1024 when analogue output used and 1280x1024 when DVI used)

Operational Temperature

- 41°F to 104°F (+5°C to +40°C) with internal temperature warning

Dimensions

- 1.75in H x 17in W x 11.75in D (inc rear BNC)

Weight

- 14 lbs / 6.4kg

Power

- 100-240VAC 50/60Hz 30.5VA