



DVP-2351

HD Video Processor



The Meridian DVP-2351 is a versatile high-definition video processor designed to deliver maximum image quality with powerful digital video processing to get the best out of any input signal, standard or high definition.

The processor also acts as a central video switching system – ideal, as the processor is the perfect location for video source selection to be carried out. If the switching is in the projector, you need multiple cable runs to it; if it's in the surround-sound processor, you risk degrading the audio quality with digital video noise.

The DVP-2351 includes 12 video inputs – 2 composite, 2 S-Video, 2 component, 1 RGBHV and 4 HDMI – and 9 audio ins, 4 HDMI, 2 assignable coax and 2 assignable optical digital ins, and an assignable analogue pair.

The processor features output presets for 4:3, 16:9, 2.35:1 and custom, and Meridian's Schneider Cinemascope lens system is directly supported. The processor offers separate display and screen adjustments, plus underscan adjustment to compensate for display overscan where present.

The processor offers fully programmable picture controls with separate non-volatile memories for each input and input resolution.

An intuitive on-screen display is provided and an easily-read 2-line x 20-character front panel display. Ten display profiles are provided plus output resolution, sync type, colour space, frame lock and gamma output settings. 35 test patterns are built-in.

Operation is via the front panel controls, IR remote (discrete codes available) or RS232.

The DVP-2351 features a wide range of features designed to deliver the very highest quality from any input signal. Mosquito noise reduction reduces noise that may appear at the edges of compressed images, while fine detail enhancement extracts the detail from lower resolution sources. Edge enhancement sharpens edge transitions in images without adding ringing effects.

A precision 10-bit motion, edge and source-adaptive deinterlacing system is employed on 480i, 576i and 1080i sources, while poor-quality external deinterlacing can be undone and re-done to a much greater level of precision. De-interlacing includes five-field motion adaptive technology and edge-adaptive technology for smooth diagonals.

The unit will lock to any cadence and includes forced 2:2 for reliable PAL deinterlacing, plus forced 3:2 mode for blue laser formats to enable judder-free frame-locked 24/48/72 Hz output. There are also special low-latency gaming modes.

Sales Information

Mosquito Noise Reduction reduces random edge noise

Fine Detail Enhancement improves lower resolution images

Edge Enhancement sharpens edges without ringing

Removes poor de-interlacing and then de-interlaces correctly

24/48/72 and 25/50/75 Hz output from film-based content.

Auto cadence detection with special blue laser and PAL modes

10-bit scaling up to 1080p

12 video inputs including 4 x HDMI 1.3

9 audio inputs

Complete A/V hub functionality and one-wire connection

Direct support for 1.33x Cinemascope lenses

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DVP-2351 front and rear panels



Progressive Cadence Detection and high-performance frame-rate conversion enables 24/48/72 and 25/50/75 Hz output from film-based content, while 10-bit scaling is performed up to 1080p.

An intelligent digital audio delay is employed to ensure that audio and video timing are correctly matched.

The unit also features four HDMI 1.3 inputs that handle up to 1080p-24/25/50/60 and one HDMI out, THX Video certification,

ISFccc Day and Night modes, and two programmable triggers. There are several built-in aspect ratios including 4:3, LB, stretch, 16:9 and also ten user-defined modes.

Each input has its own overscan setting and each of ten available profiles includes underscan adjustment. Anamorphic lenses like the Meridian Schneider 2.35:1 Cinemascope assembly are supported directly.

The DVP-2351 also includes full-frame timebase correction, and a multi-standard full-performance video decoder supporting 10-bit 480/576i and 12-bit 480/576/720p and 1080i.

The unit includes flexible digital and analogue audio switching and routing with 4 digital and one analogue audio inputs, all assignable in addition to audio on the HDMI inputs, and there are optical and coax S/PDIF digital outputs as well as audio on the HDMI out.

Technical specification

Video Inputs

- 2 Composite (NTSC/PAL/SECAM)
- 2 S-Video (NTSC/PAL/SECAM)
- 2 Component (YPbPr or RGB/S) processes 480i/p-60, 576i/p-50, 720p-50/60, 1080i-50/60
- 1 RGBHV/Component (BNC-style connectors) processes 480p-60, 576p-50, 720p-50/60, 1080i-50/60, VGA-SXGA@60Hz
- 4 HDMI (RGB or YCbCr) processes 480i/p-60, 576 i/p-50, 720p-50/60, 1080i-50/60, 1080p-24/25/50/60, VGA-SXGA@60Hz

Audio Inputs

- 4 HDMI
- Assignable Coaxial Digital
- Assignable Optical Digital
- Assignable Analogue Pair (L/R)

Outputs

- Analogue Video Output (BNC), Configurable for YPbPr, RGBHV, RGB/S, or RGB

- 1 HDMI, Configurable for RGB (4:4:4) or YCbCr (4:4:4 or 4:2:2). Also carries digital audio
- 1 Coaxial Digital Audio
- 1 Optical Digital Audio

Input Aspect Ratio

- Presets: 4:3 full frame, 4:3 letterbox, Panorama, 16:9 full frame or user-defined aspect ratio (10)
- Flexible Horizontal and Vertical Zooming (up to 2x) & Panning controls
- Overscan Adjustment per input

Output Aspect Ratio

- Presets: 4:3, 16:9, 2.35:1 or custom output aspect ratio
- Separate Display/Screen Adjustments
- Underscan Adjustment to address overscan inherent in some displays

Picture Controls

- Fully programmable controls with separate non-volatile memories per input and input resolution
- Brightness, Contrast, Saturation, Hue, Sharpness, and Fine Y/C Delay Operation
- Intuitive On Screen Display and easy to read 2

line, 20 character Front Panel Display
Front Panel Controls, included IR Remote Control (discrete codes available), Automation via RS232 port

Output Controls

- Output Resolution, Sync Type, Colourspace (RGB or YPbPr/YCbCr), Frame Lock, Gamma, Display Profiles (10)
- 35 Built-in test patterns
- Software Upgradeable via Serial Port
- Infra-red remote included

Power

- Universal AC mains input: 100 – 240 VAC @ 50-60Hz
- Consumption < 45W
- Sleep Mode – automatic 30 second timeout indicated by power LED turning off

Dimensions

- 263 x 434 x 46 mm (10.4 x 17 x 1.8 in) without feet
- Standard 19" 1U 1.75" Rackmount option

Weight

- 12.2lbs (5.5kg)