



Anchor Bay's DVDO iScan VP50^{PRO} High Definition Video Processor

The iScan™ VP50^{PRO} is the world's first video processor to incorporate HDMI 1.3 compatibility and the first to earn THX Video Certification, the industry's premiere hallmark of quality, usability and compatibility. The iScan VP50^{PRO} converts standard definition, high definition and PC signals from your DVD player, HD-DVD player, Blu-ray Disc player, HD DVR, game console, or PC to any output resolution up to 1080p.

The iScan VP50^{PRO} incorporates several of Anchor Bay's acclaimed Video Reference Series, VRS™, technologies including:

Mosquito Noise Reduction – Reduces random noise which appears along the edges of compressed images

Fine Detail Enhancement – Extracts fine detail in low resolution or compressed images

Edge Enhancement – Sharpens edges without adding ringing

Precision Deinterlacing™ – 480i/576i/1080i 10-bit Motion, Edge & Source-Adaptive Deinterlacer

- Five-field motion adaptive deinterlacing
- Edge adaptive processing for smooth diagonal edges
- Three frame video processing delay (Max)
- Locks on to any cadence including 2:2, 3:2, 3:2:2:3:2, 2:2:2:4, 4:6, 5:5, and 8:7
- Forced 2:2 for reliable PAL deinterlacing
- Forced 3:2 Mode for Blu-Ray and HD-DVD enable judder-free frame-locked 24/48/72Hz output
- Game Modes with very low latency
 - Sub-1 frame delay with edge adaptive processing
 - 2 frame delay with edge and motion adaptive processing

PREP™ – Progressive ReProcessing of 480p, 576p, and 1080p input signals allows the poor deinterlacing of any source to be undone and done correctly using Precision Deinterlacing™

Progressive Cadence Detection™ – Enables 24/48/72Hz and 25/50/75Hz output from film-based content at 480p, 576p, 720p and 1080p resolutions

Precision Video Scaling II™ – 10-bit Scaling up to 1080p

Rightrate™ – High-Performance Framerate Conversion which enables 24/48/72Hz or 25/50/75Hz output including 1080p-24 and 1080p-48 for film based content

Precision Gamma Correction™ – Individual R/G/B Adjustments

Precision A/V Lipsync™ – Intelligent digital audio delay technology to match Audio and Video timing

AutoVFR™ – Intelligent Video Inputs with Automatic Video Format Routing

AutoCUE-C™ – Automatic Chroma Upsampling Error detection and correction

Additional Features

4 HDMI 1.3 Inputs which process up to 1080p-24/25/50/60 input signals and 1 HDMI 1.3 output

THX Video Certification

ISFccc Day/Night Modes

2 programmable 12V triggers (source 500mA total)

Flexible Input Aspect Ratio Control (4:3, Letterbox, 4:3 Stretch, 16:9 and 10-User Defined Presets)

Individual Overscan Controls, per input, to properly position the active image on screen.

Individual Underscan Controls, per display profile, to eliminate Overscan inherent in most displays.

Support for Anamorphic lens configurations including 2.35:1 Constant Image Height projection systems

Individual Picture Controls per input and per format (Brightness, Contrast, Saturation, Hue and Fine Y/C Delay)

10 Display Profiles – For multiple display, framerate, and image shift configurations

Full-frame Timebase Correction

High performance, multi-standard video decoder (10-bit: 480i/576i; 12-bit: 480p/576p/720p/1080i)

High-quality super-adaptive comb filter with 2D Y/C separation

Flexible Digital and Analog Audio switching and routing – 4 HDMI 1.3 audio/video inputs, 5 assignable audio inputs (4 digital, 1 analog) with 1 HDMI 1.3 audio/video output and 2 digital audio outputs (optical/coax)

10-bit 300MHz Instrumentation Quality DACs (2x Oversampling for 1080p)

Rear Panel of the DVDO iScan VP50^{PRO}

Technical Specifications

12 Video Inputs Available

- 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 1.3 (RGB or YCbCr) processes 480i/p-60, 576i/p-50, 720p-50/60, 1080i-50/60, 1080p-24/25/50/60, VGA-SXGA@60Hz
- 2 SD/HD-SDI (Serial Digital Interface) inputs (Optional) processes 480i-60, 576i-50, 720p-60, 1080i-50/60, 1080p-24/25/30

9 Audio Inputs

- 4 HDMI 1.3 [Compatible with Dolby TrueHD, Dolby Digital Plus, DTS-HD, and DTS-HD Master audio formats]
- 2 Assignable Coaxial Digital
- 2 Assignable Optical Digital
- 1 Assignable Analog Pair (L/R)

Outputs

- 1 Analog Video Output
 - Using High Quality BNC-style connectors
 - Configurable for YPbPr, RGBHV, RGB/S, or RGB
- 1 HDMI 1.3 Audio/Video Output
 - Configurable for RGB or YCbCr
 - Also carries digital audio (Compatible with Dolby TrueHD, Dolby Digital Plus, DTS-HD, and DTS-HD Master audio formats)
- 2 Digital Audio Outputs
 - 1 Coaxial Digital
 - 1 Optical Digital

Video Output Resolution

- 34 Predefined resolutions
 - **Digital Television Standards** – 480p (720x480), 576p (720x576), 720p (1280x720), 1080i (1920x1080), 1080p (1920x1080), 1080p-24 (1920x1080@24Hz)
 - **PC Standards** – VGA (640x480), SVGA (800x600), XGA (1024x768), SXGA (1280x1024)
 - **Other Presets** – 848x600, 852x480, 1024x576, 1024x1024 (AUS), 1280x768, 1280x960, 1360x768 (2), 1365x1024, 1366x768 (2), 1400x788, 1400x1050, 1440x960, 1440x1152
- User customizable output resolution from VGA (640x480) to 1080p-60 (1920x1080@60Hz)

35 Built-in Test Patterns and VRS Optimization & Evaluation DVD included for optimal setup

Software Upgradeable via Serial Port

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), RS232 port

Power

- Universal AC mains input: 100–240 VAC @ 50–60 Hz
- Consumption < 60W
- Sleep Mode – automatic 30 second timeout indicated by power indicator color change

Physical Dimensions

- 10.4"x17"x2.2" (26.3cm x 43.4cm x 5.5cm) with feet
- 10.4"x17"x1.8" (26.3cm x 43.4cm x 4.6cm) without feet
- Standard 19" 1U 1.75" Rackmount included

Weight

- Shipping – 13 lb
- Unit without Power Supply – 6.4 lb (2.9 kg)

SKU number

- iScan VP50^{PRO} – MM606

Available Accessories

- Optional Silver Brushed Aluminum Face Plate
- Optional HD-SDI Input Module



Infrared Remote Control



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PATENTS APPLIED FOR & PENDING

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