



SOUND ADVICE Vol. 32, September, 21st 2007

The iScan™ VP50PRO 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 VP50PRO 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 VP50PRO serves as your complete A/V hub, providing audio/video switching that simultaneously eliminates A/V lipsync and allows a one wire connection to display for all your video needs.



VRS Technology

Progressive ReProcessing (PReP™)

Anchor Bay's Progressive ReProcessing (PReP™) is the video processing industry's first processing method that significantly improves progressive video signals and removes artifacts caused by inferior interlaced-to-progressive conversion.

Video signals that originate in an interlaced format are often degraded by artifacts incurred when the signal is converted from interlaced to progressive formats by general purpose chips in DVD players, AV receivers, and set-top boxes. Until now, there has been no way to improve these signals to optimize images on high-resolution displays. Poor interlaced-to-progressive conversion is especially problematic with large-screen HDTVs, as upscaling to higher resolutions often amplifies artifacts created in the conversion process, making them more noticeable.



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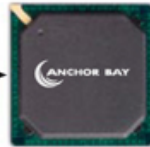
Typical 480p Video Processing



Same image after applying PReP



Photos courtesy of Stephen Low Company



Anchor Bay's patent pending PReP Technology

As a solution to this problem, Anchor Bay introduces PReP, an advanced video processing technology that reverts the progressive video signal output from source equipment to its original interlaced format. PReP then converts the interlaced signal to progressive format, this time applying the source, edge, and motion adaptive algorithms in its Precision Deinterlacing™ technology to eliminate jaggies, combing, and other degrading effects. PReP technology allows 480p, 576p, 1080p/50, 1080p/60, and other formats to be processed by this method.



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iScan™ VP50 PRO

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

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The iScan VP50PRO 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 Re Processing 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



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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)

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