iScan™ VP50

DVDO by Anchor Bay

4 HDMI Inputs
Up to 1080p60 Out

iScan VP50

VRS by Anchor Bay

Anchor Bay's DVDO iScan VP50 High Definition Video Processor

The iScan™ VP50 is a high-definition video processor and A/V hub that 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 between VGA and 1080p, including popular HDTV resolutions such as 720p and 1080i.

The VP50 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 of your video sources.

Precision Deinterlacing™ technology by Anchor Bay
480i/576i/1080i Motion, Edge & Source-Adaptive Deinterlacer
- Five-field motion adaptive deinterlacing
- Edge adaptive processing for smooth diagonal edges
- Three frame video processing delay (Max)
- Game modes with very low latency

Precision Video Scaling II™ technology by Anchor Bay
10-bit Scaling with Enhanced Sharpness Control
PReP™ – Progressive ReProcessing of 480p, 576p, and 1080p sources
Precision Gamma Correction™ – Individual R/G/B Adjustments (0.5-2.5)
Precision A/V Lipsync™ – intelligent digital audio delay technology to match Audio and Video timing
Rightrate™ – High-Performance Framerate Conversion for 24/48/72Hz output
AutoVFR™ – Intelligent Component Video Inputs with Automatic Video Format Routing
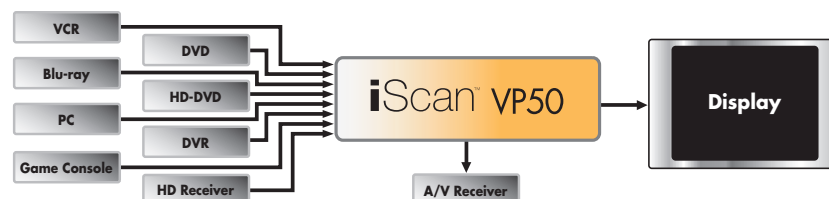**AutoCUE-C™** – Automatic Chroma Upsampling Error detection and correction
- Analog HD Transcoding and Processing
- Four HDMI Inputs which process 1080p-50/60 input signals
- Flexible Input and Output Aspect Ratio Controls

- Display Profiles – For multiple display, framerate, and image shift configurations (10)
- 10-bit 300MHz Instrumentation Quality DACs (2x Oversampling for 1080p)
- 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 audio/video inputs, 5 assignable audio inputs (4 digital, 1 analog) with 1 HDMI audio/video output and 2 active digital audio outputs.
- Software Upgradeable

Video Output Resolution
- 34 Predefined resolutions
  — Digital Television standards – 480p (720x480), 540p (1920x540), 576p (720x576), 720p (1280x720), 1080i (1920x1080), 1080p (1920x1080)
  — PC Standards – VGA (640x480), SVGA (800x600), XGA (1024x768), SXGA (1280x1024)
  — Other Presets – 848x600, 852x480,1024x576,1024x1024 (ALIS), 1280x768, 1280x960, 1360x768 (2), 1365x1024, 1366x768 (2), 1400x788, 1400x1050, 1440x960,1440x1152
- User customizeable output resolution from VGA (640x480) to 1080p (1920x1080)

VCR
Blu-ray
PC
Game Console
DVD
HD-DVD
DVR
HD Receiver
iScan™ VP50
A/V Receiver
Display

ANCHOR BAY

Rear Panel of the DVDO iScan VP50

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 (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
- 1 SD-SDI (Serial Digital Interface) Optional processes 480i-60, 576i-50

9 Audio Inputs

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

Input Aspect Ratio Controls

- 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 Controls

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

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, Colorspace (RGB or YPbPr/YCbCr), Frame Lock, Gamma, Display Profiles (10)

35 Built-in test patterns and VRS Optimization & Evaluation DVD

Software Upgradeable via Serial Port

Miscellaneous

Power

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

Physical Dimensions

- 10.4"x17"x2.2" (26.3cmx43.4cmx5.5cm) with feet
- 10.4"x17"x1.8" (26.3cmx43.4cmx4.6cm) without feet
- Standard 19" 1U 1.75" Rackmount optional

Weight

- Shipping – 12.2 lbs (5.5 kg)
- Unit without Power Supply – 7.0 lbs (3.2 kg)

SKU number

- iScan VP50 – MM605

Available Accessories

- Brushed Aluminum Face Plate
- SDI Input Module
- Rackmount

Infrared Remote Control

ANCHOR BAY TECHNOLOGIES

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PATENTS APPLIED FOR & PENDING

VP50PB_061507

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