



DVDO iScan Duo High Definition Video Processor

The **iScan™ Duo** is the first DVDO video processor with dual HDMI 1.3 video output capability, allowing connection to two separate displays. The iScan Duo converts standard definition and high definition signals from your DVD player, Blu-ray Disc player, HD DVR, game console, PC or media player to any output resolution up to 1080p through either HDMI video output.

The iScan Duo incorporates several of Anchor Bay's acclaimed Video Reference Series, VRS™, technologies including:

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

- Five-field motion adaptive deinterlacing
- Edge adaptive processing for smooth diagonal edges
- Maximum three frame video processing delay
- Multi cadence detection including 2:2, 3:2, 3:2:2:3:2, 2:2:2:4, 6:4, 5:5, and 8:7
- Forced 2:2 modes for reliable PAL deinterlacing
- Forced 3:2 mode for 24p film content
- Game mode with very low latency for gaming applications

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™

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

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

Rightrate™ – High-Performance Framerate Conversion which enables different output frame rates including 1080p24 and 1080p25 for film based content

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

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

System Features

Two HDMI video outputs supporting two display applications, for example LCD TV and projector

Flexible Digital and Analog Audio switching and routing – 8 HDMI 1.3 audio/video inputs, 6 assignable audio inputs (4 digital, 2 analog) with two HDMI 1.3 audio/video outputs and 3 digital audio outputs (HDMI/optical/coaxial)

Individual Picture Controls per input and per SD/HD format

Flexible Input Aspect Ratio Control

High performance, multi-standard video decoder with 3D comb filter and supporting up to 1080p input resolutions

Serial Port for automation

Rear Panel IR input and output

2 programmable 12V triggers (source 50mA each)

Color Management

- Color Gamut with White point adjustment for accurate color reproduction in displays
- 11-point Grayscale controls to calibrate display gray levels over the full signal range



Rear Panel of the DVDO iScan Duo

Technical Specifications

15 Video Inputs

- 8 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 Component (YPbPr or RGB/S) processes 480i/p-60, 576i/p-50, 720p-50/60, 1080i-50/60, 1080p-50/60
- 1 HD15 (VGA, SVGA, XGA, SXGA @ 60Hz)
- 1 S-Video (NTSC/PAL/SECAM)
- 3 Composite (NTSC/PAL/SECAM)

14 Audio Inputs

- 8 HDMI 1.3 (Compatible with Multi-channel PCM, DSD, Dolby TrueHD, Dolby Digital Plus, DTS-HD, and DTS-HD Master audio formats)
- 3 Assignable Optical Digital
- 1 Assignable Coaxial Digital
- 2 Assignable Analog Pairs (L/R)

Outputs

- 2 HDMI 1.3 Audio/Video Outputs (for Connection to 2 Displays) — Configurable for RGB or YCbCr
 - Also carries digital audio (Compatible with Multi-channel PCM, DSD, Dolby TrueHD, Dolby Digital Plus, DTS-HD, and DTS-HD Master audio formats)
- 3 Digital Audio Outputs
 - 1 HDMI 1.3 'Audio Only' output for receivers with HDMI (Compatible with Multi-channel PCM, DSD, Dolby TrueHD, Dolby Digital Plus, DTS-HD, and DTS-HD Master audio formats)
 - 1 Coaxial Digital
 - 1 Optical Digital

Video Output Resolution

- Auto format detection to output native resolution of displays up to 1920x1200 (WUXGA) resolutions
- Manual output resolution supporting video standards including 1080p60, 1080p50, 1080p25, 1080p24

35 Built-in Test Patterns to ease display setup

Software Upgradeable via Mini USB 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), 2 rear panel IR connectors (IN & OUT) & RS232 port

Power

- Universal AC mains input: 100–240 VAC @ 50–60 Hz using an external 12V power adapter
- Consumption < 60W
- Sleep Mode – automatic 30 second timeout indicated by power indicator color change

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 included

Weight

- Shipping – 12.2 lb
- Unit without Power Supply – 6.6 lb (3.0 kg)

Part number

- MM701



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PATENTS APPLIED FOR & PENDING

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