



## 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, 4:6, 5:5, and 8:7
- Forced 2:2 modes for reliable PAL deinterlacing
- Forced 3:2 mode enables 1080p24 output
- 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

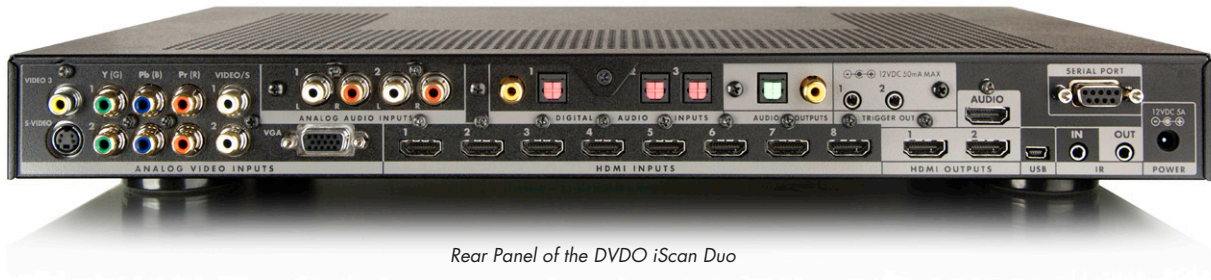
Flexible Input Aspect Ratio Control

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)



Rear Panel of the DVDO iScan Duo

## Technical Specifications

### 15 Video Inputs Available

- 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, 1080p54, 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 &amp; PENDING

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## DVDO Product Comparison



The world's first HDMI 1.3 advanced video processor and A/V hub

Multi-output advanced video processor and A/V hub

Affordable video processor and A/V hub with separate HDMI audio only output

Full suite of VRS™ technologies

Full suite of VRS™ technologies

Full suite of VRS™ technologies

THX and ISF Certified

Custom Install friendly

Analog BNC output

Easy setup and configuration

Easy setup and configuration

HD-SDI support

Inputs			
Video	2	3	1
S-Video	2	1	1
Component Video (YPbPr) or RGB/S	2	2	2
RGBHV	1 – 5BNC	1 – VGA	1 – 5 RCA (using one of the component inputs)
HDMI (v1.3)	4	8	6
HD-SDI	2 (optional)		
Coaxial Digital Audio Assignable	2	1	1
Optical Digital Audio Assignable	2	3	3
Analog Stereo Pair (L/R) Assignable	1	2	1

## Outputs

Analog Video YPbPr / RGBHV/RGBCs	1		
HDMI 1.3	1	2	1
HDMI 1.3 (Audio)		1	1
Optical Digital Audio	1	1	1
Coaxial Digital Audio	1	1	

## VRS™ Technologies

Precision Deinterlacing	✓	✓	✓
Precision Video Scaling	✓	✓	✓
Mosquito Noise Reduction	✓	✓	✓
PReP™ (Progressive ReProcessing)	✓	✓	✓
Detail and Edge Enhancement	✓	✓	✓
Precision A/V Lipsync	✓	✓	✓
Right Rate	✓	✓	✓
AutoCUE-C	✓	✓	✓
Progressive Cadence Detection	✓	✓	✓

## Input Formats

Composite Video	NTSC/PAL/SECAM	NTSC/PAL/SECAM	NTSC/PAL/SECAM
S-Video	NTSC/PAL/SECAM	NTSC/PAL/SECAM	NTSC/PAL/SECAM
Component Video	480i/480p/576i/576p/ 720p50/720p60/ 1080i50/1080i60	480i/480p/576i/576p/ 720p50/720p60/ 1080i50/1080i60/ 1080p50/1080p60	480i/480p/576i/576p/ 720p50/720p60/ 1080i50/1080i60/ 1080p50/1080p60
RGBHV	VGA/SVGA/XGA/SXGA	VGA/SVGA/XGA/SXGA	VGA/SVGA/XGA/SXGA

Analog Pass-through	✓		
HDMI	480i through 1080p60 VGA-SXGA	480i through 1080p60 VGA-SXGA	480i through 1080p60 VGA-SXGA
HD-SDI	480i/576i/720p50/720p 60/1080i50/1080i60/10 80p24/1080p25/ 1080p24sf		
<b>Output Formats</b>			
Auto Detection		✓	✓
Manual Setting	480p through 1080p PC, custom formats	480p through 1080p PC formats	480p through 1080p PC formats
<b>Controls</b>			
Serial Automation	✓	✓	
12V Triggers	✓	✓	
Universal remote			✓
Dedicated remote	✓	✓	
Rear Panel IR Input		✓	✓
Rear Panel IR output		✓	
Firmware Update	Serial Port	USB	USB
<b>Certification</b>			
THX	✓		
ISF	✓		
<b>Aspect Ratio Controls</b>			
Input Aspect Ratios	4:3/16:9/4:3 Letterbox/Panorama/ User Defined	4:3/16:9/4:3 Letterbox/Panorama	4:3/16:9/4:3 Letterbox/Panorama
Zoom/Pan/Overscan	✓	✓	✓
Saved input settings	Per input per format	Per input per SD/HD format	Per input per SD/HD format

Output Aspect Ratios ✓

**Picture Controls**

Saved settings      Per input per format      Per input      Per input

Output Controls ✓

**Pricing**

MSRP                      \$3499                      \$1299                      \$799