OPS300

NEW

Smooth Move

HDCP Compliant

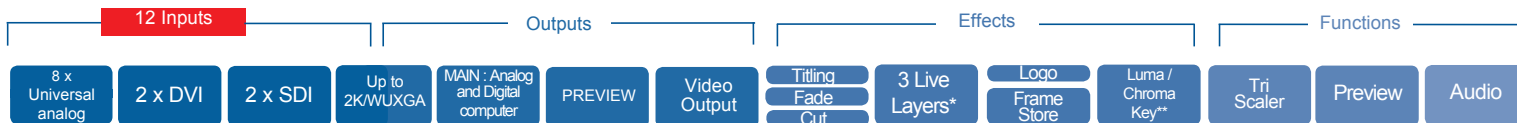## Multi Layer Hi-Resolution Mixer Seamless Switcher with 3 Scalers for Rental & Staging and High-End installations.

12 Inputs				Outputs			Effects				Functions		
8 x Universal analog	2 x DVI	2 x SDI	Up to 2K/WUXGA	MAIN : Analog and Digital computer	PREVIEW	Video Output	Titling / Fade / Cut	3 Live Layers*	Logo / Frame Store	Luma / Chroma Key**	Tri Scaler	Preview	Audio

* 2 PIP on Live Background
** on DVI-D inputs (Only)

Easy to read VFD screen

12 direct input selections

Freeze

T-Bar to control effect level

Convenient input for last minute connection

On/Off

Control Menu

Easy navigation between the Menu

Easy access to Layer Selection

Effect

Preset

Take

RS232 Com Port

Video Output

LAN control

SD/HD-SDI inputs

Audio

Standard IEC international power connector

7 Universal inputs on HD15 female and DVI-I connectors (Computer, Video, HDTV, DVI)

Main outputs #1: 1 Analog + 1 DVI-I

Preview outputs #2: 1 Analog + 1 DVI-I

12 Inputs
- 2 Digital Inputs (DVI)
- 8 Universal Analog Inputs
- 2 SD/HD-SDI Inputs
- SDTV, EDTV, HDTV and Computer formats up to 2K
- Full digital In/Out Processing

Outputs
- 2 Analog and Digital Outputs: Main & Preview
- Computer Formats up to 2K
- RGBHV and DVI
- Video Output: SD/HD-TV Analog and SD/HD-SDI

Operation Modes & Effects
- 2 Operation Modes : Mixer and Native Matrix
- 2 PIPs on Live Background
- 8 Full Frames, 8 Logo Memories
- DSK on DVI inputs (Titling by Luma and Chroma Key on noiseless digital source)
- PIP: Pan & Zoom resizing up to 1000%
- PIP Open/Close Animation
- Transitions: Fade (Dissolve), Cut, Wipe, Slide
- Dynamic PIP (Moving from A to B)
- PIP Border (Edge: 1 Color, 1 Width)

Additional Features
- Dual RS232 and Ethernet Port for Control or Upgrade
- Remote Control Software (Supplied)
- Integrated Audio Stereo Switcher with SDI audio de-embedder
- Video Output

ANALOG WAY

Technical Specifications

8 Universal Inputs - Analog Inputs (All inputs #1 to #8)
SD-TV:
• Composite, S.Video, YUV, RGsB or RGBS
• NTSC: 15.735kHz / 60Hz
• PAL/SECAM : 15.625kHz / 50Hz
ED/HD-TV:
• RGsB, RGBS or YUV
• 480p / 60 Hz – 576p / 50 Hz - 720p, 1080i, 1035i / 50 or 60Hz – 1080p / 24, 25, 30, 50 or 60 Hz – 1080psF / 24, 25 or 30 Hz
Computer:
• RGBHV, RGBS or RGsB
• Resolution up to 1600x1200 / 60 Hz, 1920x1200 /60 Hz or 2048x1080 / 60 Hz
• Horizontal frequency from 31.5 to 130 kHz
• Vertical frequency up to 130 Hz
• FpxMax = 165MHz

4 Digital Inputs (DVI-I 1, DVI-I 2, SDI1 and SDI2)
• DVI-I: SD-TV, ED-TV, HD-TV and Computer formats
• SDI: SD-TV & HD-TV – YUV / 10bits / 4:2:2
• Automatic synchronization detection

Main and Preview Outputs
Computer Digital and Analog:
• RGBHV, RGBS or RGsB and DVI
• Resolution up to 1600x1200 / 60 Hz, 1920x1200 / 60 Hz or 2048x1080 / 60 Hz
• Vertical frequency 50, 60, 72 or 75 Hz depending on Output format
• FpxMax = 165MHz

Video Outputs
• Analog and Digital SD/HD-TV
• SD-TV: NTSC/PAL, S.Video, RGB/YUV and SDI
• HD-TV: RGB/YUV and HD-SDI
• HD Formats: 720p, 1080i / 50 or 60Hz – 1080p / 24, 25, 30Hz – 1080psF / 25 or 30 Hz

Audio Stereo In/Out
• Inputs:
- 10 Audio stereo inputs + 1 Auxiliary + 2 from embedded SDI
- AUX and input #7 Balanced
- Vi = +15dBU max
- Zi = 20 kOhms (Unbalanced) / 40 kOhms (Balanced)
- Adjustable Level per input
• Outputs:
- 2 independent outputs
- Balanced/Unbalanced
- Vo = +15 dBU / 300 Ohms (Unbalanced)
- Vo = +21 dBU / 600 Ohms (Balanced)

User Controls - Front Panel
• Standby On/Off
• Input, Layer and Logo direct access
• Freeze/Black
• Effect and preset selection
• Large Graphic VFD screen with control knobs and buttons for Easy and fast access to menus and adjustments

Connectors - Front Panel
• Input #8 Connectors:
- HD15-F: (Analog SD/ED/HD-TV and Computer)
- RCA (Analog SDTV CVBS)
- Mini DIN 4 (Analog SDTV Y/C)
- RCA (Analog unbalanced stereo)

Connectors - Rear Panel
• Input #1 to #5 Connectors:
- HD15-F: (Analog SD/ED/HD-TV and Computer)
• Input #6 to #7 and DVI-I 1 to DVI-I 2 Connectors:
- DVI-I Female: (Analog SD/ED/HD-TV and Computer)
- SDI 1 & SDI 2: BNC-F
• Audio:
- 3.5mm Stereo jack: inputs #1 to #4
- 10 pins MCO connectors: 2 for Inputs and 1 for Outputs
- DB9: Dual RS232 for remote control
- RJ45: Ethernet connection
- AC main connector with On/Off switch

Main and Preview Output Connectors
Each output is fitted with:
- DVI-I Female: (Digital and Analog) RGB or YUV
- HD15 Female: RGB or YUV

Video Out
- DB9-F: NTSC/PAL, S.Video, SD/HD-RGB/YUV
- BNC-F: SD/HD-SDI (with Audio Embedded)

Dimensions: 2U, 19"
• D 13» x W 19» x H 3.15»
• D 330 mm x W 480 mm x H 80 mm

Weight: 5kg / 11lbs

OPS300 by Analog Way is a Multi Layer Mixer Scaler Seamless Switcher with Universal Analog and Digital input/output and Full High Resolution Digital Processing. It offers numerous Live effects including Keying and PiP Animation as well as 2 different operation modes: Multi Layer Mixer and 12 by 2 Seamless Native Matrix.

Multi Layer Mixer Mode:
OPS300 uses one output as a Preview and the other, the Main output, for the audience. Thanks to its full frame and logo memory, OPS300 can display up to 6 layers: 3 Live Sources, 1 Frame and 2 Logos. Live Layers can be customized by the users with various attributes: Borders, Movements, Zoom, Cut, Fade, Wipe or Slide.

Seamless Native Matrix Mode:
OPS300 offers a 12 x 2 scaled native matrix with true seamless switching. The switch between any of the 12 inputs can be in cut or fade and synchronized on the 2 outputs.

General Features:
OPS300 offers up to 12 inputs including 2 fitted with digital DVI and 2 fitted with SDI. SDI is compatible with SD and HD TV formats so is DVI which offers computer formats in addition. With state of the art 100% digital processing, the OPS300 outputs Digital and Analog Signals in DVI and VGA (RGBHV) simultaneously with a selection of many formats up to Computer 2K. OPS300 provides a high image quality thanks to its true 10 bits SD/HD auto adaptive pixel by pixel 3D motion compensation processing, de-interlacing, auto 3:2 and 2:2 reverse pull down circuitry, processing and Frame follower.

Logo and Full Frame:
They can be recorded in the large non volatile memory of the OPS300: 8 still logos and 8 full screen frames. These elements can be uploaded from computer files via Ethernet LAN or dual RS232 connections or acquired from the displayed image.

Integrated Audio Stereo switcher features 12 inputs (10 analog and 2 from embedded SDI) and 2 outputs. An auxiliary input can be mixed with any other input. Master volume and individual input level can be adjusted. Auxiliary input, input #7 and outputs offers balanced or unbalanced connections.

The Video Output card provides SD or HD TV formats in various signals from Composite Video to HD SDI. This output can be used to record the show by outputting the same contents as the Main output.

OPS300 is a high grade easy to use A/V Presentation Mixer Switcher particularly adapted to rental and staging and high-end installations due to its excellent versatility. Fully controlled from its own front panel as well as from its Remote Control Software (supplied) or from the new ORCHESTRA remote console, it offers a large range of utilization. Equipped with TCP/IP and dual RS232, OPS300 can be updated with new features and functions improving its life time.

References

> OPS300

Power Supply
• Internal, universal, automatic, 100-250 V; 50/60 Hz; 140 W (UL, CSA, GS, CE)

Supplied with
1 x Power supply cord
2 x DVI male to HD15 female and DVI female cable
1 x HD15 to 5 BNC cable
1 x Ethernet crossover cable
1 x DB9 to 4 BNC cable + mini-Din 4
1 x Set of 3 audio 10 pin screw terminals
1 x RCS CD-ROM (PC only)
1 x User manual
1 x Quick Start guide

Warranty
3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

To Control OPS300

> Remote Control Software (RCS): OPS300 (Supplied)
> ORC50 : Orchestra
> Remote Keypad : RK300

Orchestra - Ref. ORC50