

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



### Inputs

### Outputs

### Features



#### OPS300 at a glance

- > High Resolution Mixer and Matrix (12x2) Seamless Switcher
- > High Resolution Scaler and Down Converter with integrated audio
- > Full High Resolution digital processing
- > 3 Layers
- > Dynamic Effects

#### Reference

- > OPS300: Ref. OPS300

#### To Control OPS300

- > Remote Control Software (RCS): OPS300 (Supplied)
- > ARC200: Axion2
- > ORC50: Orchestra
- > TRK-800: Triple Remote Keypad TRK-800
- > RK-300: Remote Keypad RK-300

#### Key Features

##### 12 Inputs

- 2 DVI Inputs
- 8 Universal Analog Inputs
- 2 x 3G/HD/SD-SDI
- SDTV, EDTV, HDTV and Computer formats up to 2K
- Full digital In/Out Processing

##### Outputs

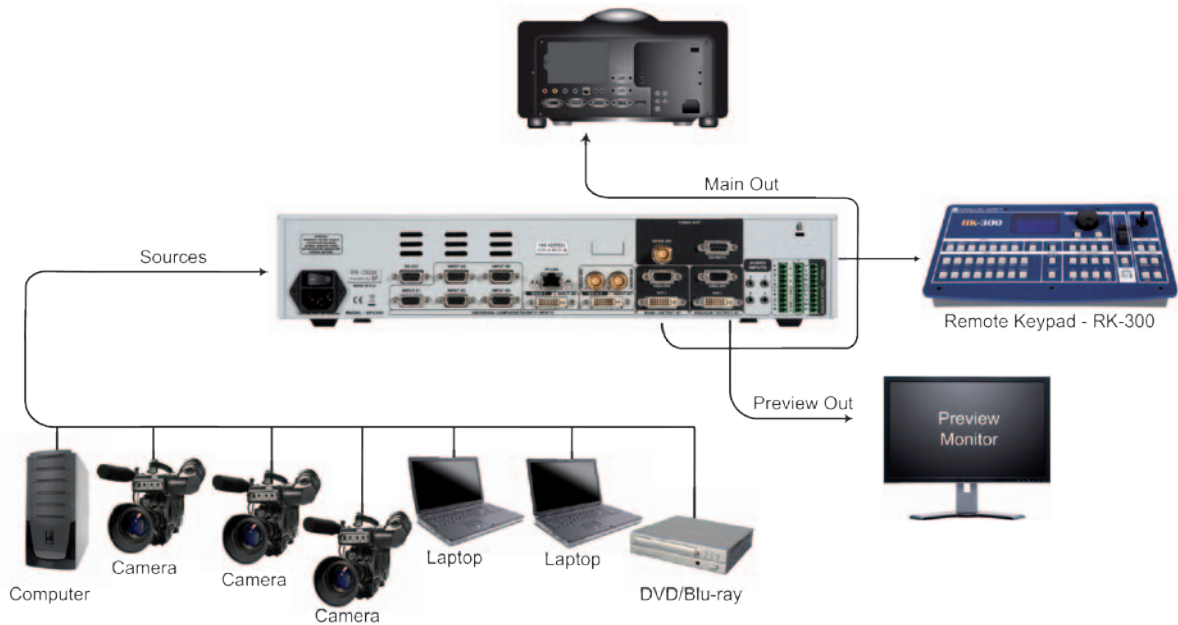
- 2 Analog and Digital Outputs: Main & Preview
- Computer Formats up to 2K
- RGBHV and DVI
- Video Output: SD/HD-TV Analog and 3G/HD/SD-SDI

##### Operation Modes & Effects

- 2 Operation Modes: Mixer and Native Matrix
- 2 PIPs on Live Background
- 3 PIPs on Background Frame
- 8 Full Frames, 8 Logo Memories
- 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)
- Smooth Move effect
- Chroma/Luma Key/DSK Title
- DSK on Analog & Digital Inputs
- 12 Preset Layouts



# Diagram



## Technical Specifications

### 8 Universal Inputs - Analog Inputs (All inputs #1 to #8)

- SD-TV:**
- Composite, S.Video, YUV, RGB or RGBS
  - NTSC: 15.735kHz/60Hz
  - PAL/SECAM : 15.625kHz/50Hz
- ED/HD-TV:**
- RGB, 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 RGBS
  - 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, or 3G-SDI
- Automatic synchronization detection

### Main and Preview Outputs

- Computer Digital and Analog:**
- RGBHV, RGBS or RGBS 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
- HD-TV:**
- RGB, RGBS or YUV, DVI
  - 720p, 1080i, 1035i/50 or 60Hz - 1080p/24, 25, 30, 50 or 60Hz - 1080psF/24, 25 or 30Hz

### Operation Standards

SMPTE 259M, SMPTE 274M, SMPTE 292M, SMPTE 296M and SMPTE 424M

### 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, or 3G-SDI
- HD Formats: 720p@50/59.95 & 60Hz - 1035i @59.94@60Hz - 1080i@50/59.94@60Hz - 1080p@23.97/24/25/29.97/30/50 & 60Hz - 1080psF@25 or 30Hz

### Audio Stereo In/Out

- **Input:**
  - 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
- **Output:**
  - 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)
- Input SD/HD-SDI
  - SDI 1 & SDI 2: BNC-F
- Audio:
  - 3.5mm Stereo jack: inputs #1 to #4
  - 10 pin 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 88 mm

### Weight

- 5kg/11lbs

### Power Supply

- Internal, universal, automatic, 100-240 V; 50/60Hz; 140 W (UL, CSA, GS, CE)

### Supplied with

- 1 x Power supply cord
- 2 x DVI-I male to HD15 female + DVI-D female breakout 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 Remote Control Software (RCS) (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



\* All RCS, User Manuals and Quick Start Guides are also available on [www.analogway.com](http://www.analogway.com)