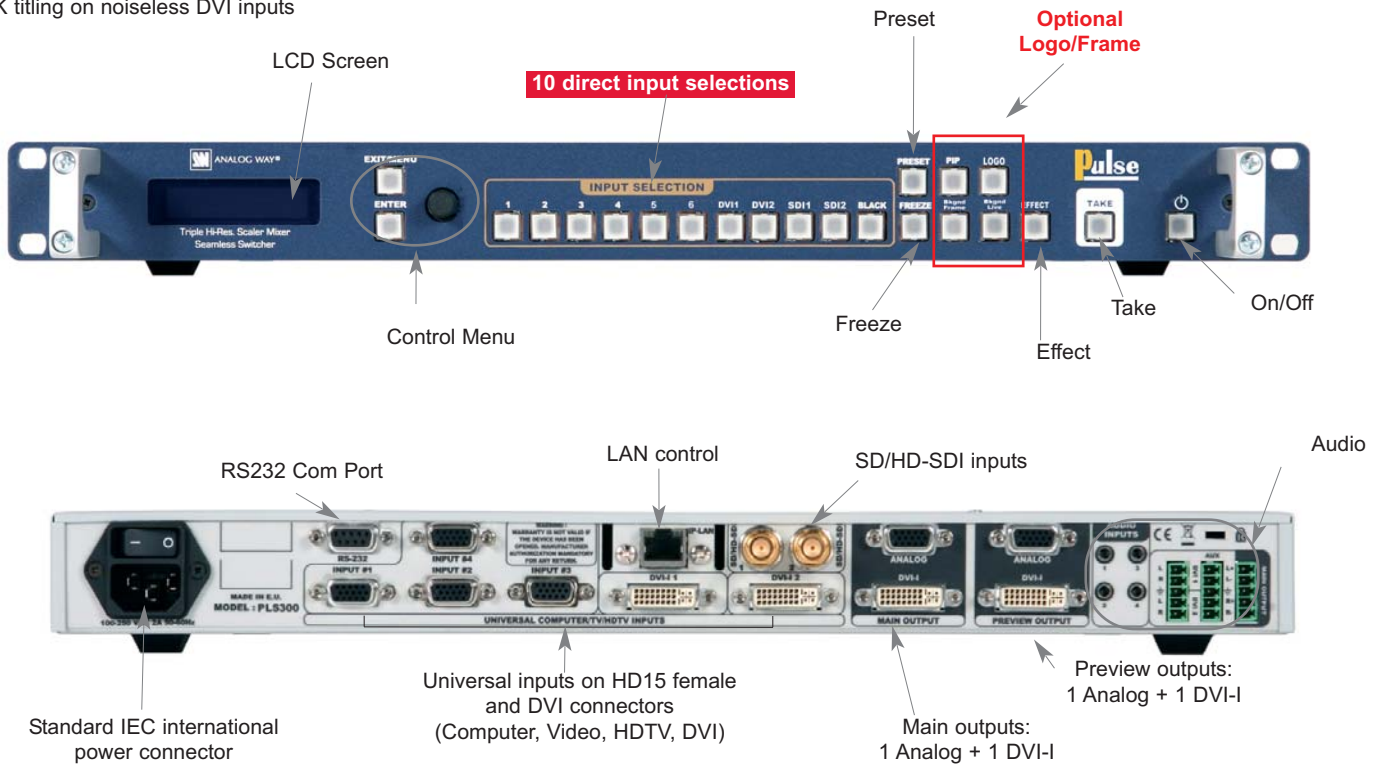


## Dual Scaler Hi-Resolution Mixer Seamless Switcher for Large Screen Projections, Conference Rooms and Houses of Worship



\* 1 PIP on live background

\*\* DSK titling on noiseless DVI inputs



### Up to 10 Inputs

- 2 Digital Inputs (DVI)
- Up to 6 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
- HTDV and Computer Formats up to 2K
- RGBHV and DVI

### Operation Modes & Effects

- Mixer Mode
- Live background and 1 Live PIP
- DSK on DVI inputs (Titling by Luma and Chroma Key on noiseless source)
- 16/9, 4/3, Special sized and cropped output
- Pan & Zoom resizing up to 1000%
- Fade (Dissolve), Cut, Wipe, Transparency
- Moving & Zooming PIPs
- Image Borders

### Additional Features

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



# Seamless Switchers

## Technical Specifications

### 6 Universal Inputs - Analog Inputs (All inputs #1 to #6)

#### SD-TV:

- Composite, S.Video, YUV, RGsB or RGSB
- NTSC: 15.735kHz / 60Hz
- PAL/SECAM : 15.625kHz / 50Hz

#### ED/HD-TV:

- RGsB, RGSB 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, RGSB 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

#### Digital Inputs (DVI-D 1, DVI-D 2 and optional SDI1 and SDI2):

- DVI-D: 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, RGSB 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

#### HD-TV:

- RGsB, RGSB or YUV, DVI
- 720p, 1080i, 1035i / 50 or 60Hz – 1080p / 24, 25, 30, 50 or 60Hz – 1080psF / 24, 25 or 30 Hz

#### Audio Stereo In/Out

##### Inputs:

- 6 Audio stereo inputs + 1 Auxiliary
- AUX Balanced
- Vi = +18dB
- Zi = 20 kOhms (Unbalanced) / 40 kOhms (Balanced)
- Adjustable Level per input

##### Outputs:

- 1 output
- Balanced/Unbalanced
- Vo = +18 dBu / 300 Ohms (Unbalanced)
- Vo = +24 dBu / 600 Ohms (Balanced)

#### User Controls - Front Panel

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

#### Connectors - Rear Panel

##### Input #1 to #4 Connectors:

- HD15-F: (Analog SD/ED/HD-TV and Computer)

##### Input #6 to #7 and DVI-D 1 to DVI-D 2 Connectors:

- DVI-I Female: (Analog SD/ED/HD-TV and Computer)

##### Audio:

- 3.5mm Stereo jack: inputs #1 to #4
- 10 pins MCO connectors: 2 for Inputs and 1 for Outputs

##### Output Main and Preview Connectors:

##### Each output is fitted with:

- DVI-I Female: (Digital and Analog) RGB or YUV
- HD15 Female: RGB or YUV

#### Connectors - Rear Panel continued

- DB9: two RS232 for remote control
- RJ45: Ethernet connection
- AC main connector with On/Off switch

#### Dimensions: 2U, 19"

- D 13.8" x W 19" x H 1.58"
- D 350 mm x W 480 mm x H 40 mm

#### Weight: 4.5kg / 11lbs

#### Power Supply

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

#### Supplied with

- 1 x AC power cable
- 2 x DVI male to DVI-D Female + HD15 Female cable
- 1 x HD15 to 5 BNC Cable
- 1 x Remote control software
- 1 x User manual on Cd-rom
- 1 x Quick Start
- 1 x Ethernet cross cable (for update)
- 1 x Set of 3 audio 5-pin screw terminals

#### Warranty

3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

**Pulse** by **Analog Way** is a Dual Scaler Mixer Seamless Switcher with Universal Analog and Digital input/output and Full High Resolution Digital Processing. It offers numerous Live effects including Keying and Moving PiP.

#### Mixer Mode:

**Pulse** uses one output as a Preview and the other, the Main output, for the audience. The **Pulse** can display up to 2 Live Sources. Live Layers can be customized by the users with various attributes: Borders, Movements, Zoom or Transparency.

#### General Features:

The **Pulse** offers up to 10 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 **Pulse** outputs Digital and Analog Signals in DVI and VGA (RGBHV) simultaneously with a selection of many formats from HDTV to Computer 2K.

**Pulse** 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 and processing and Frame follower.

Integrated Audio Stereo switcher features 8 inputs (6 analog and 2 from embedded SDI) and 1 output. An auxiliary input can be mixed with any other input. Master volume and individual input level can be adjusted. Auxiliary input and output offers balanced or unbalanced connections.

**Pulse** is a high grade easy to use A/V Presentation Mixer Switcher particularly adapted to Large Screen Projections, Conference Rooms and Houses of Worship due to its excellent versatility. Fully controlled from its own front panel as well as from Remote Control Software (supplied), it offers a large range of utilization. Equipped with TCP/IP and RS232, **Pulse** can be updated with new features and functions improving its life time.

## References

> **PLS300:** Pulse

## Option

- **OPT-Logo:** Optional Logo and Frame Store

## Cables for Pulse

- > 0.5m/1ft to 30m/100ft Remote Cables
- > 3m/10ft to 30m/100ft SDI-HD SDI Cables
- > 1.8m/6ft to **70m/230ft** DVI Cables
- > 0.5m/1ft to 1.8m/6ft VGA Cable

## To Control Pulse

> **Remote Control Software (RCS):** Pulse (Supplied)

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