Pulse

NEW

Smooth Move

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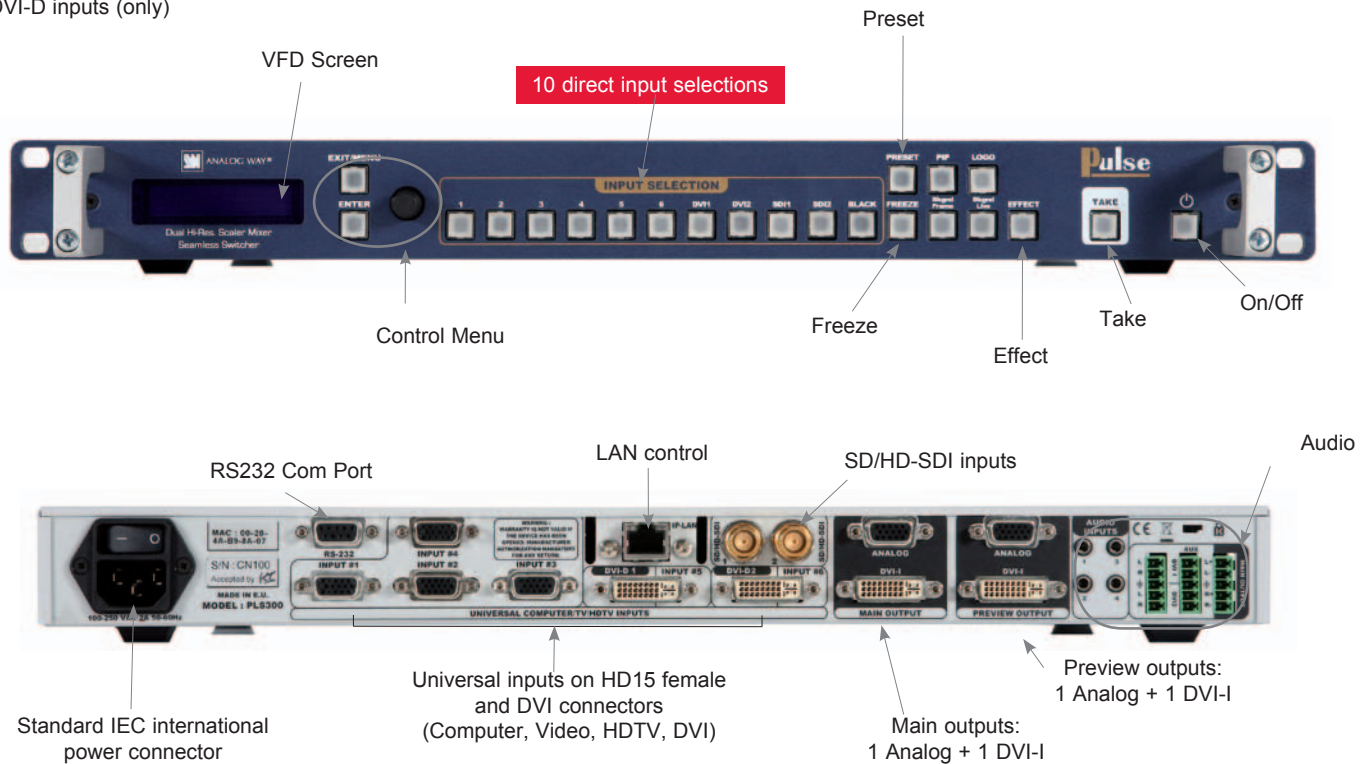
Dual Scaler Hi-Resolution Mixer Seamless Switcher for Large Screen Projections, Conference Rooms and Houses of Worship

Up to 10 Inputs				Outputs		Effects		Functions		
Up to 6 x Universal analog	2 x DVI	2 x SDI	Up to 2K/WUXGA	MAIN : Analog and Digital computer	PREVIEW	Titling / Fade / Cut	Luma / Chroma Key**	Dual Scaler	Preview	Audio

* 1 PIP on live background
** On DVI-D inputs (only)

VFD Screen

10 direct input selections

Preset

Control Menu

Freeze

Effect

Take

On/Off

RS232 Com Port

LAN control

SD/HD-SDI inputs

Audio

Standard IEC international power connector

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

Main outputs: 1 Analog + 1 DVI-I

Preview outputs: 1 Analog + 1 DVI-I

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
- 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)
- PIP: Pan & Zoom resizing up to 1000%
- Transitions: Fade (Dissolve), Cut , Wipe & Slide
- PIP Open/Close Animation
- PIP Border (Edge: 1 Color, 1 Width)

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

ANALOG WAY

www.analogway.com

Technical Specifications

6 Universal Inputs - Analog Inputs (All inputs #1 to #6)
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
Digital Inputs (DVI-D 1, DVI-D 2 and 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, 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

Audio Stereo In/Out
• Inputs:
- 6 Audio stereo inputs + 1 Auxiliary
- AUX Balanced
- Vi = +15dB max
- Zi = 20 kOhms (Unbalanced) / 40 kOhms (Balanced)
- Adjustable Level per input
• Outputs:
- 1 output
- Balanced/Unbalanced
- Vo = +15 dBU / 300 Ohms (Unbalanced)
- Vo = +21 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: 1U, 19"
• D 13.8» x W 19» x H 1.74»
• D 350 mm x W 480 mm x H 44 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 PiP animation.

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, Cut, Fade, Wipe & Slide.

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 up 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.

Reference

> **PLS300**: Pulse

To control Pulse

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