Multi-layer hi-resolution mixer & seamless switcher with eight inputs and native matrix mode

Flexibility and Versatile Connectivity

The Pulse² 3G is a powerful multi-layer hi-resolution mixer and seamless presentation switcher featuring 8 seamless inputs and 14 input connectors (four HDMI, four DVI, two 3G-SDI and four universal analog). The Pulse² 3G has two outputs with mirrored DVI and universal analog connectors that can be configured either as Program & Preview or as two independent program outputs. It also supports advanced audio inputs and outputs functionalities and includes a 3G-SDI output usable as video output or Program clone.

Smart functionalities

The Pulse² 3G has been designed with innovative functionalities, including some advanced features inherited from the LiveCore™ series. The Pulse² 3G can display up to two live layers, with background and foreground positions. Thanks to the new Quick Frame function, a foreground frame can quickly hide all other layers when necessary. To fit any display resolution, including non-standard formats like LED walls, the Pulse² 3G manages custom output formats. Major new assets also include advanced management of audio to easily embed or de-embed digital audio on HDMI and DVI-D connectors, ensuring better processing and quality of the video and audio mix. For easy routing of audio signals, some functions such as Fast Routing and Audio Breakaway are available.

Powerful and Flexible Control Options

The Pulse² 3G has been designed to be entirely operated from the easy-to-use front panel. Each MIDRA™ model can also be easily controlled using the intuitive drag & drop user software interface: the RCS². The Pulse² 3G offers IP (Ethernet) control via a standard TCP/IP socket connection and an RS-232 serial interface supported by all major third-party control systems. Additionally, the Pulse² 3G can be controlled by a comprehensive range of remote control panel options such as the RK-350 keypad or the Shot Box².
### KEY FEATURES

**Midrả™ Platform:** Uncompromised processing and manufacturing quality

**2 Operating Modes:** Seamless Mixer and Native Matrix

**8 Seamless Inputs:** Capability to switch between any input plugs (14 input plugs available)

**2 Outputs:** Program/Output#1 and Preview/Output#2

**Video Output:** Digital SD/HD TV (3G-SDI)

**High Performance Video Processing:**
- Very fast seamless switching
- Ultra-low latency processing
- Chroma/Luma Key and Titling
- Ability to modify the program in real time without using the Preview

**Advanced Audio Management:**
- Embed/De-Embed audio on all plugs
- Breakaway Audio mode
- Top Layer mode
- Balanced Stereo audio on all outputs
- Fast Routing mode
- Delay Compensation (manual up to 80ms or auto)

**Enhanced Layer Processing:**
- Up to 2 layers on Still Background
- Live Layers fully resizable
- Pan & Zoom resizing up to 100%
- Border & Shadow
- Dynamic layers (Moving from A to B) with Flying, Zooming or Cropping

**Quick Frame Mode:** Instantly display a stored frame above all layers

**Internal Test Patterns:** Select between 9 available test patterns

**HDCP Compliant:** Management on 6 inputs; Ability to read & display outputs EDIDs

**EDID Management:** Enable/Disable the HDCP (If the display is not compliant, the output image could be disabled)

**Memories:**
- 8 Memory Presets per output and up to 64 via RCS²
- 8 Full Frames
- 8 Logo Memories (including one animated Logo)

**RCS²:** Remote Control Software for Windows and Mac

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**Dimensions (in Rack Units - RU):**
- 2 RU

**Dimensions (without rack ears and rear rack mount):**
- W 17.28” x H 3.46” x D 14.79”
- L 493.5 mm x H 88 mm x P 378 mm

**Dimensions (with handles):**
- W 19” x H 3.46” x D 15.78”
- L 482.1 mm x H 88 mm x P 403 mm

**Weight Without Accessories:**
- 6.2 kg / 13.66 lbs

**Shipping Weight Accessories Included:**
- 8.7 kg / 19.18 lbs

**Operating Conditions:**
- Temperature: 0 to 40°C (32 to 104°F)
- Humidity: 10% to 80%, non-condensing

**Thermal Dissipation:**
- 239 BTU/hr

**Noise (@1.6m height @25°C):**
- Front: 39 DBa@1m
- Rear: 39 DBa@1m

**Warranty:**
- 3-year warranty on parts and labor back to factory

**Power Supply:**
- 100-240VAC 50/60Hz 2.5A
- Fuse Cartridge F4AH 250VAC 5x20mm
- Max Consumption: 70 W

**Safety Compliance:**
- IEC/UL/EN 60950-1, CSA22.2#60950-1, ETL Listed (US & Canada)

**Supplied with:**
- 5-pin Power supply cord
- 1 pair of front handles + screws
- 1 x Ethernet cross cable (for device control)
- 5 x MCO 5 pin connector
- 1 x Quick Start Guide including safety instructions*

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**Inputs**
- 8 Seamless inputs, 14 total input plugs
- 4 x DVI-D up to 2048x1152@60Hz
- 4 x HDMI up to 2048x1152@60Hz
- 4 x Universal Analog up to 2048x1152@60Hz
- 2 x 3G/HD-SDI up to 2K@60Hz

**Outputs**
- 2 outputs with 2 plugs per output
- 2 x DVI up to 2048x1152@60Hz
- 2 x Universal Analog up to 2048x1152@60Hz
- 1 x 3G-SDI up to 2K@60Hz, useable as video output or program clone

**Audio**
- 5-pin MCO connectors: 4 for analog audio inputs and 2 for analog audio outputs
- 4 RCA connectors: 2 for S/PDIF audio inputs and 2 for S/PDIF audio outputs

**Input:**
- DVI (as HDMI) / HDMI / SDI Audio de-embedded
- 4 x Audio stereo Analog (Balanced/Unbalanced)
- 2 x S/PDIF (AES-3id compatible)

**Output:**
- DVI (as HDMI) / SDI Audio embedded
- 2 x Audio stereo Analog (Balanced/Unbalanced)
- 2 x S/PDIF (AES-3id compatible)

**Standards**
- VESA: GTF1.1, CVT 1.1, DMT1.0 rev.12

**Operating Modes**
- Mixer Mode:
  - Seamless switching with full preview with 1 layer
  - 1 Title on Live Background
  - 1 Layer on Live Background
  - Up to 2 Layers on Still Background

- Matrix Mode:
  - Seamless switching
  - 1 Live Background on each output

**Control**
- Full-featured Front Panel
- RCS²: Remote Control Software with intuitive GUI
- Orchestra²: Intuitive and ergonomic Controller
- RK-350: Remote Keypad
- SB80-2: Shot Box²
- AMX/Crestron drivers

**Other Features**
- DB9: RS232 for remote control
- RJ45: Ethernet connection

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**Specifications subject to change without prior notice**

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*All technical specifications and videos are available on [www.analogway.com](http://www.analogway.com)