Pulse² 3G

Ref. PLS350-3G

ANALOG WAY®
Pioneer in Analog, Leader in Digital

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



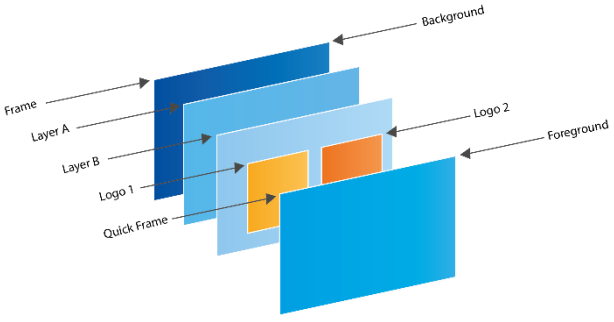


Flexibility and Versatile Connectivity

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 useable as video output or Program clone.

Quality without Compromise

Based on the extremely reliable and cost-effective MIDRA™ platform, the **Pulse² 3G** offers ultra-low latency image processing, uncompromising video quality, true seamless switching and advanced video effects for elegant AV presentations, which makes it an ideal solution for live events, fixed installations, houses of worship and educational facilities.



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**.



Pulse² 3G at a glance

- Based on the Midra™ platform
- 2 operating modes: Seamless Mixer & Native Matrix
- Heavy-duty design for incredible reliability
- High quality, ultra-low latency video processing
- 3G-SDI inputs and outputs
- Advanced audio management
- User-friendly and intuitive graphic interface

	QVU150-3G	QMX150	PLS350-3G	SMX250	SPX450	EKS550
Operating modes	1	1	2	1	2	3
Inputs	8	8	8	10	10	10
Outputs	1 + 1 Preview	2	2	2	2	2
Video Output	1	0	1	1	1	1
Transitions & Effects	+	+	+	++	+	++
Live Layers (max)	1 + 1 keyed	1 + 1 keyed	2	2	3	4

KEY FEATURES

MIDRA™ 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
- Custom output formats
- Advanced de-interlacing processing
- New freeze features (input/layer/screen)

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 1000%
- Border & Shadow
- Dynamic layers (Moving from A to B) with Flying, Zooming or Cropping functions
- Direct Swap & Split functions
- Transitions: Fade, Cut, Wipe, Slide
- Open/Close animation

Quick Frame mode: Instantly display a stored frame above all layers

Internal test patterns: Select between 9 available test patterns

EDID Management: Management on 6 inputs; Ability to read & display outputs EDIDs

HDCP Compliant: 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

Dimension (in Rack Units - RU)
► 2RU

Dimensions (without rack ears and rear rack mount)
► W 17.28'' x H 3.46'' x D 14.79''
► L 439.5 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
► 100-240 VAC 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
► 1 x Power supply cord
► 1 x Pair of front handles + screws
► 1 x Ethernet cross cable (for device control)
► 6 x MCO 5 pin connector
► 1 x Quick Start Guide including safety instructions*

Specifications subject to change without prior notice

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/SD-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

SMPTE: ST 259:2008, ST 260:1999, ST 274:2008, ST 292-1:2012, ST 296:2012, ST 424:2012, ST 428-19:2010
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

*All technical specifications and videos are available on www.analogway.com

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