

# Product Overview Brochure

## 2018




**ANALOG WAY®**  
*Pioneer in Analog, Leader in Digital*



Ascender 48 - 4K - PL - Ref. ASC4806-4K-PL

Powerful multi-screen seamless Switcher with 48 scalars




- 12 seamless inputs and 42 input plugs
- 4 outputs
- Independent Preview/Mosaic/Monitoring output
- 6 true-seamless scaled layers or 3 true-seamless perspective layers + 1 native background layer per output
- Additive and associative modularity
- Input formats up to 4K@30Hz 4:4:4 or four quadrant 4K@60Hz 4:4:4
- Output formats up to 4K@30Hz 4:4:4, 4K@60Hz 4:2:0 or four quadrant 4K@60Hz 4:4:4

- Outstanding visual effects
- Ruggedized and heavy-duty design
- Intuitive Web Interface (**Web RCS**)
- Drag & drop WYSIWYG web-based innovative graphic user interface

1 PRW12 IN4 OUT4RU size

Ascender 32 - 4K - PL - Ref. ASC3204-4K-PL

Powerful multi-screen seamless Switcher with 32 scalars




- 12 seamless inputs and 42 input plugs
- 4 outputs
- Independent Preview/Mosaic/Monitoring output
- 4 true-seamless scaled layers or 2 true-seamless perspective layers + 1 native background layer per output
- Additive and associative modularity
- Input formats up to 4K@30Hz 4:4:4 or four quadrant 4K@60Hz 4:4:4
- Output formats up to 4K@30Hz 4:4:4, 4K@60Hz 4:2:0 or four quadrant 4K@60Hz 4:4:4

- Outstanding visual effects
- Ruggedized and heavy-duty design
- Intuitive Web Interface (**Web RCS**)
- Drag & drop WYSIWYG web-based innovative graphic user interface

1 PRW12 IN4 OUT4RU size

Ascender 16 - 4K - Ref. ASC1602-4K

Powerful multi-screen seamless Switcher with 16 scalars




- 12 seamless inputs and 42 input plugs
- 4 outputs
- Independent Preview/Mosaic/Monitoring output
- 2 true-seamless scaled layers + 1 native background layer per output
- Additive and associative modularity
- Input formats up to 4K@30Hz 4:4:4 or four quadrant 4K@60Hz 4:4:4
- Output formats up to 4K@30Hz 4:4:4, 4K@60Hz 4:2:0 or four quadrant 4K@60Hz 4:4:4

- Outstanding visual effects
- Ruggedized and heavy-duty design
- Intuitive Web Interface (**Web RCS**)
- Drag & drop WYSIWYG web-based innovative graphic user interface

1 PRW12 IN4 OUT4RU size

NeXtage 16 - 4K - Ref. NXT1604-4K

Powerful true-seamless AV Processor with 16 scalars




- 8 seamless inputs and 28 input plugs
- 2 outputs
- Independent Preview/Mosaic/Monitoring output
- 4 true-seamless scaled layers + 1 native background layer per output
- Associative modularity
- Input formats up to 4K@30Hz 4:4:4
- Output formats up to 4K@30Hz 4:4:4
- Outstanding visual effects

- Ruggedized and heavy-duty design
- Intuitive Web Interface (**Web RCS**)
- Drag & drop WYSIWYG web-based innovative graphic user interface

1 PRW8 IN2 OUT3RU size

NeXtage 08 - 4K - Ref. NXT0802-4K

Powerful true-seamless AV Processor with 8 scalars



- 8 seamless inputs and 28 input plugs
- 2 outputs
- Independent Preview/Mosaic/Monitoring output
- 2 true-seamless scaled layers + 1 native background layer per output
- Associative modularity
- Input formats up to 4K@30Hz 4:4:4
- Output formats up to 4K@30Hz 4:4:4
- Outstanding visual effects


- Ruggedized and heavy-duty design
- Intuitive Web Interface (**Web RCS**)
- Drag & drop WYSIWYG web-based innovative graphic user interface

1 PRW8 IN2 OUT3RU size

EVENT CONTROLLERS

Vertige™ - Ref. VRC300

Premium Show Controller for large Events/Multi-venues




- User-friendly remote console
- Rugged design for touring applications
- Large 16/9 TFT color touch screen for preview and configurations
- User definable keys for ease of selection, control and edition

- Simplified show programming
- Control 3rd party devices (matrix routers, media servers, PTZ cameras...)
- Scalable for larger events
- Compatible with all **LiveCore™** series

Rackmount Control Unit - Ref. RCU300

Premium solution for large-scale video systems



- Unleashes the power of Analog Way's image processors based on the **LiveCore Platform™**
- Manages large display configurations with up to 96 video outputs and hundreds of PIPs
- Extremely reliable, adapted to 24/7/365 applications

- 2RU rackmount chassis with redundant power supplies
- Remotely controllable

Shot Box² & Control Box²

Compact Solutions to easily control the presets on the LiveCore™ series




Ref. SB80-2Ref. SB124T-2

- 76 (SB80-2) / 99 (SB124T-2) function-labeled keys
- T-Bar for manual smooth transitions (SB124T-2 only)
- Addressable blue and red backlighting
- SB80-2 is compatible with **LiveCore™** series and **Midra™** series

- SB124T-2 is compatible with **LiveCore™** series only
- Include software for Windows® or Mac OS X® and a robust carrying case

AW Video Compositor - Ref. AWVDC

Control the advanced features of the LiveCore™ platform



- Visualize the whole scene in real time with layer positions and dynamic sources snapshots
- Use the touchscreen to resize or adjust layer position
- Drag and drop sources directly onto layer
- Control multiple screens simultaneously (Preview & Program)
- Compatible with Perspective Layer screens


- Configure input settings (current plug, HDCP, freeze...)
- Configure the Monitoring output mosaic with a simple flick of the finger
- Select a frame or a logo from the image library with simple drag and drop gesture
- Recall Presets or Master Presets with seamless transitions

LiveCore™ series: Overall comparison

References	Ascender 48 - 4K - PL Ref. ASC4806-4K-PL	Ascender 32 - 4K - PL Ref. ASC3204-4K-PL	Ascender 16 - 4K Ref. ASC1602-4K	NeXtage 16 - 4K Ref. NXT1604-4K	NeXtage 08 - 4K Ref. NXT0802-4K
INPUTS	12	12	12	8	8
Universal Analog Input (RGBHV, YUV, Y/C & Composite)	12	12	12	8	8
DVI-I Scaled	6	6	6	4	4
DVI Dual-Link	3	3	3	2	2
HDMI	6	6	6	4	4
DisplayPort	3	3	3	2	2
3G/HD/SD-SDI	12	12	12	8	8
Standard Max resolution	WQXGA/Ultra HD & 4K	WQXGA/Ultra HD & 4K	WQXGA/Ultra HD & 4K	WQXGA/Ultra HD & 4K	WQXGA/Ultra HD & 4K
Universal analog input EDID	Except DVI-A	Except DVI-A	Except DVI-A	Except DVI-A	Except DVI-A
EDID (HDMI - DVI - DisplayPort)	All inputs	All inputs	All inputs	All inputs	All inputs
HDCP compliant & Disable	✓	✓	✓	✓	✓
OUTPUTS					
Program/Output	4	4	4	2	2
Preview on Output 2				✓	✓
Max resolution	WQXGA/ Ultra HD & 4K	WQXGA/ Ultra HD & 4K	WQXGA/ Ultra HD & 4K	WQXGA/ Ultra HD & 4K	WQXGA/ Ultra HD & 4K
Independent Preview/Mosaic/Monitoring Output (Full live Preview all sources)	✓	✓	✓	✓	✓
Video Out 3G/HD/SD-SDI - RGB - RGsB - RGBS - YUV - Y/C - Comp	✓	✓	✓	✓	✓
Monitoring DVI or DVI Dual-Link	✓	✓	✓	✓	✓
HDCP compliant DVI	✓	✓	✓	✓	✓
Independent Output Rate	✓	✓	✓	Only for Output 2	Only for Output 2
MULTI-DISPLAY CONFIGURATIONS					
Associative Modularity Via <b>Vertige™</b> Ref. VRC300 Console (up to 4 units)	✓	✓	✓	✓	✓
Max number of outputs with associative modularity	16	16	16	8	8
Additive Modularity via <b>Web RCS</b> (Link between 2 units only)	✓	✓	✓		
Max number of outputs with additive modularity	8	8	8		
PREVIEW					
Full Live Preview of all sources (Preview/Mosaic/Monitoring)	✓	✓	✓	✓	✓
Confidence Monitor	✓	✓	✓	✓	✓
Customizable labels on Monitoring/ Preview display	✓	✓	✓	✓	✓
Max widgets in Monitoring/Preview display	12	12	12	8	8
TRANSITIONS & EFFECTS					
True A/B Mix	✓	✓	✓	✓	✓
Transition: Cut, Fade, Slide, Wipe, Circle, Stretch & Depth	✓	✓	✓	✓	✓
Color effects: Black&White, Sepia, Negative, Solarize	✓	✓	✓	✓	✓
Background Cut Effect	✓	✓	✓	✓	✓
Flying Curve Effect	✓	✓	✓	✓	✓
LAYERS					
Number of true-seamless scaled layers per output	6	4	2	4	2
Native Background	✓	✓	✓	✓	✓
Advanced Layers Management	✓	✓	✓	✓	✓
FRAME & LOGO					
Fully resizable (Supporting all settings and layer transitions)	✓	✓	✓	✓	✓
Formats: BMP, JPEG, TIFF, GIF, PNG, ICO	✓	✓	✓	✓	✓
Download/Upload with the <b>Web RCS</b>	✓	✓	✓	✓	✓
Capture from live inputs	✓	✓	✓	✓	✓
Management of pictures via a thumbnail library	✓	✓	✓	✓	✓
Available Frame/Logo memories	100	100	100	100	100
OTHER FEATURES					
Tally/GPI-O	✓	✓	✓	✓	✓
Independent Framelock input	✓	✓	✓	✓	✓
HUMAN MACHINE INTERFACE					
<b>Web RCS</b> (Web Based Remote Control Software)	✓	✓	✓	✓	✓
Remote Services	✓	✓	✓	✓	✓
Remote Maintenance Tools	✓	✓	✓	✓	✓
Remote Controller <b>Vertige™</b> - Ref. VRC300	✓	✓	✓	✓	✓
4K HARDWARE					
Number of 4K 30Hz 4:4:4 inputs	3 x HDMI & 3 x DP	3 x HDMI & 3 x DP	3 x HDMI & 3 x DP	2 x HDMI & 2 x DP	2 x HDMI & 2 x DP
Max input resolution	Ultra HD & 4K	Ultra HD & 4K	Ultra HD & 4K	Ultra HD & 4K	Ultra HD & 4K
Number of outputs in 4K 30Hz 4:4:4 mode	2	2	2	1	1
Number of outputs in 4K 60Hz 4:2:0 mode	1	1	1		
Max output resolution	Ultra HD & 4K	Ultra HD & 4K	Ultra HD & 4K	Ultra HD & 4K	Ultra HD & 4K
PERSPECTIVE LAYERS					
Number of Perspective Layers per output	3	2			
FORM FACTOR					
Rugged Design	✓	✓	✓	✓	✓
Enclosure	4RU	4RU	4RU	3RU	3RU
Rack mount kit supplied	✓	✓	✓	✓	✓

LiveCore™ series: Accessories

LiveCore™ Output Expander 48 - 4K - PL  
Ref. LOE048-4K-PL



Expansion module gives 4 additional Program outputs and 1 Operator/Aux output for Ascender 48 - 4K - PL

- 6 true-seamless scaled layers or 3 true-seamless perspective layers + 1 native background layer per output
- 4 outputs
- Output formats up to 4K@30p 4:4:4, 4K@60Hz 4:2:0 & four quadrant 4K@60Hz 4:4:4
- 4K frames support
- Compatible with **ASC1602-4K**, **ASC3204-4K-PL** and **ASC4806-4K-PL**
- Independent Preview/Mosaic/Monitoring output


- Full Preview of any sources of the linked chassis (Preview/Mosaic/Monitoring)
- Customization of monitoring layouts (Up to 8 templates stored)
- Advanced Layer Management
- Rotation capability in output (Step by 90°)
- Ruggedized and heavy-duty design

1 PRW

4 OUT

4RU size

LiveCore™ Output Expander 32 - 4K - PL  
Ref. LOE032-4K-PL



Expansion module gives 4 additional Program outputs and 1 Operator/Aux output for Ascender 32 - 4K - PL

- 4 true-seamless scaled layers or 2 true-Seamless Perspective layers + 1 native background layer per output
- 4 outputs
- Output formats up to 4K@30p 4:4:4, 4K@60Hz 4:2:0 & four quadrant 4K@60Hz 4:4:4
- 4K frames support
- Compatible with **ASC1602-4K**, **ASC3204-4K-PL** and **ASC4806-4K-PL**
- Independent Preview/Mosaic/Monitoring output


- Full Preview of any sources of the linked chassis (Preview/Mosaic/Monitoring)
- Customization of monitoring layouts (Up to 8 templates stored)
- Advanced Layer Management
- Rotation capability in output (Step by 90°)
- Ruggedized and heavy-duty design

1 PRW

4 OUT

4RU size

LiveCore™ Output Expander 16 - 4K  
Ref. LOE016-4K



Expansion module gives 4 additional Program outputs and 1 Operator/Aux output for Ascender 16 - 4K

- 2 true-seamless scaled layers + 1 native background layer per output
- 4 outputs
- Output formats up to 4K@30p 4:4:4, 4K@60Hz 4:2:0 & four quadrant 4K@60Hz 4:4:4
- 4K frames support
- Compatible with **ASC1602-4K**, **ASC3204-4K-PL** and **ASC4806-4K-PL**
- Independent Preview/Mosaic/Monitoring output


- Full Preview of any sources of the linked chassis (Preview/Mosaic/Monitoring)
- Customization of monitoring layouts (Up to 8 templates stored)
- Advanced Layer Management
- Rotation capability in output (Step by 90°)
- Ruggedized and heavy-duty design

1 PRW

4 OUT

4RU size

Secure Power Unit - Ref. SPU001




Uninterruptible power supply for LiveCore™ Switchers

- Provides emergency power to your **LiveCore™** switcher when mains power fails (up to 10 minutes)
- Compatible with all **LiveCore™** series devices

- Includes two slots for hot-swappable power supplies and a battery module

AW Simulator



Free tool to simulate Analog Way's multi-format converter VIO 4K and LiveCore™ switchers on your PC or Mac

- Simulate multi-format converter **VIO 4K** and **LiveCore™** premium AV switchers (no 'real' device needed)
- Integrated **Web RCS** for self-training or to prepare a configuration (offline mode)
- Save your work at the end of simulation sessions and seamlessly resume it the next time


- Import / Export configuration from/to a «real» device
- Oracle® VirtualBox installation needed (More details in the Quick start guide)

LiveCore™ & VIO 4K



# Midra™ series: Overview

Eikos<sup>2</sup> - Ref. EKS550



Multi-Layer Hi-Resolution Mixer seamless Switcher with 10 inputs and 3 operating modes

- 10 seamless inputs and 16 input connectors
- Capability to switch between any input plugs
- 2 outputs / 1 Video output (CVBS, YPbPr, 3G-SDI)
- 3 operating modes:
  - **Mixer**: up to 3 live layers on still background
  - **Native Matrix**: 2 live layers on still background
  - **QuadraVision**: 4 live layers on still background
- Mosaic Preview mode


- Quick Frame mode
- Transitions: Fade, Dissolve, Cut, Wipe, Slide, Stretch, Circle, Depth & Flip Mirror effect
- Advanced Audio Management
- Chroma/Luma Key & Titling
- HDCP compliant and EDID Management

10 IN

2 OUT

2RU size

Saphyr - Ref. SPX450



Multi-Layer Hi-Resolution Mixer seamless Switcher with 10 inputs and Native Matrix mode

- 10 seamless inputs and 16 input connectors
- Capability to switch between any input plugs
- 2 outputs / 1 Video output (CVBS, YPbPr, 3G-SDI)
- 2 operating modes:
  - **Mixer**: up to 3 live layers on still background
  - **Native Matrix**: 1 live layer + 1 keyed layer on still background


- Quick Frame mode
- Transitions: Fade, Dissolve, Cut, Wipe, Slide, Circle & Flip
- Advanced Audio Management
- Chroma/Luma Key & Titling
- HDCP compliant and EDID Management

10 IN

2 OUT

2RU size

SmartMatrix<sup>2</sup> - Ref. SMX250



10x2 Seamless Matrix Scaler with Native Hi-Resolution Outputs

- 10 seamless inputs and 16 input connectors
- Capability to switch between any input plugs
- 2 outputs / 1 Video output (CVBS, YPbPr, 3G-SDI)
- 2 live layers on still background


- Quick Frame mode
- Transitions: Fade, Dissolve, Cut, Wipe, Slide, Circle & Flip
- Advanced Audio Management
- Chroma/Luma Key & Titling
- HDCP compliant and EDID management

10 IN

2 OUT

2RU size

Pulse<sup>2</sup> 3G - Ref. PLS350-3G



Hi-Resolution Mixer seamless Switcher with 8 inputs and Native Matrix mode

- 8 seamless inputs and 14 input connectors
- Capability to switch between any input plugs
- 2 outputs / 1 video output (3G-SDI)
- 2 operating modes:
  - **Mixer**: 2 live layers on still background
  - **Native Matrix**: 1 live layer


- Quick Frame mode
- Transitions: Fade, Dissolve, Cut, Wipe & Slide
- Advanced Audio Management
- Chroma/Luma Key & Titling
- HDCP compliant & EDID Management

8 IN

2 OUT

2RU size

QuickMatrix - Ref. QMX150



8x2 true Seamless Matrix Scaler with Native Hi-Resolution outputs

- 8 seamless inputs and 14 input connectors
- Capability to switch between any input plugs
- 2 outputs
- 1 live layer + 1 keyed layer on still background
- True Seamless switching on each output


- Quick Frame mode
- Transitions: Fade, Dissolve, Cut, Wipe & Slide
- Advanced Audio Management
- Chroma/Luma Key & Titling
- HDCP compliant and EDID Management

8 IN

2 OUT

2RU size

QuickVu 3G - Ref. QVU150-3G



Hi-Resolution Mixer true seamless Switcher with 8 inputs

- 8 seamless inputs and 14 input connectors
- Capability to switch between any input plugs
- 2 outputs (Program and Preview)
- 3G-SDI video output
- 1 live layer + 1 keyed on still background
- True seamless switching with full preview

- Quick Frame mode
- Transitions: Fade, Dissolve, Cut, Wipe & Slide
- Advanced Audio Management
- Chroma/Luma Key & Titling
- HDCP compliant & EDID Management


8 IN

2 OUT

2RU size

# Midra™ series: Overview

Saphyr - H - Ref. SPX450-H



Ten-Input Hi-Resolution Mixer & seamless Switcher with HDBaseT™ inputs and outputs

- 10 seamless inputs and 16 input connectors
- 2 outputs / 1 Video output (CVBS, YPbPr, 3G-SDI)
- 2 operating modes:
  - **Mixer**: 3 live layers on still background
  - **Native Matrix**: 1 live layer + 1 keyed layer on still background
- HDBaseT connectors, Tx up to 492ft (150m)
- 4 inputs: video, audio, Ethernet, 2 with POE
- 2 outputs: video, audio, Ethernet, Serial, IR


- Quick Frame mode
- Transitions: Fade, Dissolve, Cut, Wipe, Slide, Circle & Flip
- Advanced Audio Management
- Chroma/Luma Key & Titling
- HDCP compliant and EDID Management

10 IN

2 OUT

2RU size

SmartMatrix<sup>2</sup> - H - Ref. SMX250-H



10x2 Hi-Resolution Seamless Matrix scaler with HDBaseT™ inputs and outputs

- 10 seamless inputs and 16 input connectors
- 2 outputs / 1 Video output (CVBS, YPbPr, 3G-SDI)
- 2 live layers on still background
- HDBaseT connectors, Tx up to 492ft (150m)
- 4 inputs: video, audio, Ethernet, 2 with POE
- 2 outputs: video, audio, Ethernet, Serial, IR


- Quick Frame mode
- Transitions: Fade, Dissolve, Cut, Wipe, Slide, Circle & Flip
- Advanced Audio Management
- Chroma/Luma Key & Titling
- HDCP compliant and EDID management

10 IN

2 OUT

2RU size

Pulse<sup>2</sup> - H - Ref. PLS350-H



Eight-Input Hi-Resolution Mixer & seamless Switcher with HDBaseT™ inputs and outputs

- 8 seamless inputs and 12 input connectors
- 2 outputs / 1 x 3G-SDI Video output
- 2 operating modes:
  - **Mixer**: 2 live layers on still background
  - **Native Matrix**: 1 live layer
- HDBaseT connectors, Tx up to 492ft (150m)
- 2 inputs: video, audio, Ethernet, PoE
- 2 outputs: video, audio, Ethernet, Serial, IR


- Quick Frame mode
- Transitions: Fade, Dissolve, Cut, Wipe & Slide
- Advanced Audio Management
- Chroma/Luma Key & Titling
- HDCP compliant & EDID Management

8 IN

2 OUT

2RU size

QuickMatrix - H - Ref. QMX150-H



8x2 Hi-Resolution Seamless Matrix Scaler with HDBaseT™ inputs and outputs

- 8 seamless inputs and 12 input connectors
- 2 outputs / 1 x 3G-SDI Video output
- 1 live layer + 1 keyed layer on still background
- HDBaseT connectors, Tx up to 492ft (150m)
- 2 inputs: video, audio, Ethernet, PoE
- 2 outputs: video, audio, Ethernet, Serial, IR


- Quick Frame mode
- Transitions: Fade, Dissolve, Cut, Wipe & Slide
- Advanced Audio Management
- Chroma/Luma Key & Titling
- HDCP compliant and EDID Management

8 IN

2 OUT

2RU size

SmartMatrix<sup>2</sup> - H LE - Ref. SMX250-H-LE



8x1 Hi-Res. Seamless Matrix Scaler with two HDBaseT™ inputs and one HDBaseT™ output

- 8 seamless inputs and 12 input connectors
- 1 output / 1 x 3G-SDI Video output
- 2 live layers on still background
- HDBaseT connectors, Tx up to 492ft (150m)
- 2 inputs: video, audio, Ethernet, PoE
- 1 output: video, audio, Ethernet, Serial, IR


- Quick Frame mode
- Transitions: Fade, Dissolve, Cut, Wipe & Slide
- Advanced Audio Management
- Chroma/Luma Key & Titling
- HDCP compliant and EDID management

8 IN

1 OUT

2RU size

QuickMatrix - H LE - Ref. QMX150-H-LE



8x1 Hi-Res. Seamless Matrix Scaler with two HDBaseT™ inputs and one HDBaseT™ output

- 8 seamless inputs and 12 input connectors
- 1 output
- 1 live layer + 1 keyed layer on still background
- HDBaseT connectors, Tx up to 492ft (150m)
- 2 inputs: video, audio, Ethernet, PoE
- 1 output: video, audio, Ethernet, Serial, IR

- Quick Frame mode
- Transitions: Fade, Dissolve, Cut, Wipe & Slide
- Advanced Audio Management
- Chroma/Luma Key & Titling
- HDCP compliant and EDID Management

8 IN

1 OUT

2RU size

# Midra™ series: Overall Comparison

References	Eikos <sup>2</sup> Ref. EKS550	Saphyr Ref. SPX450	SmartMatriX <sup>2</sup> Ref. SMX250	Pulse <sup>2</sup> 3G Ref. PLS350-3G	QuickMatriX Ref. QMX150	QuickVu 3G Ref. QVU150-3G
OPERATION MODE	3	2	1	2	1	1
Mixer mode	✓	✓		✓		✓
Native Matrix mode	✓	✓	✓	✓	✓	
Quadravision	✓					
INPUTS	10	10	10	8	8	8
Universal Analog plugs	4	4	4	4	4	4
HDMI plugs	4	4	4	4	4	4
HDBaseT plugs						
Single Link DVI-D plugs	4 (HDMI compatible)	4 (HDMI compatible)	4 (HDMI compatible)	4 (HDMI compatible)	4 (HDMI compatible)	4 (HDMI compatible)
3G/HD/SD SDI plugs	4	4	4	2	2	2
Max. resolution	2K / 2048x1152	2K / 2048x1152	2K / 2048x1152	2K / 2048x1152	2K / 2048x1152	2K / 2048x1152
Universal analog input EDID	✓	✓	✓	✓	✓	✓
EDID (Compliant Digital Plugs)	✓	✓	✓	✓	✓	✓
HDCP Compliance	✓	✓	✓	✓	✓	✓
PROGRAM OUTPUTS	2	2	2	2	2	1+1 Preview
Universal Analog plug	✓	✓	✓	✓	✓	✓
Single Link DVI-I plug	✓	✓	✓	✓	✓	✓
HDMI plugs						
HDBaseT plugs						
Max resolution	2K / 2048x1152	2K / 2048x1152	2K / 2048x1152	2K / 2048x1152	2K / 2048x1152	2K / 2048x1152
Custom formats	✓	✓	✓	✓	✓	✓
EDID detection (Analog & DVI)	✓	✓	✓	✓	✓	✓
HDCP Compliance	✓	✓	✓	✓	✓	✓
VIDEO OUTPUT	1	1	1	1	0	1
CVBS	✓	✓	✓			
Components (YPbPr)	✓	✓	✓			
3G/HD/SD SDI plug		✓	✓	✓		✓
SDTV/EDTV formats	✓	✓	✓	✓		✓
HDTV formats	✓	✓	✓	✓		✓
Max resolution	DCDM2K / 2048x1080	DCDM2K / 2048x1080	DCDM2K / 2048x1080	DCDM2K / 2048x1080		DCDM2K / 2048x1080
MAXIMUM LAYERS PER OUTPUT						
Mixer mode	3	3		2		1 + 1 keyed
Native Matrix mode	2	1 + 1 keyed	2	1	1 + 1 keyed	
Quadravision mode	4					
TRANSITION & EFFECTS						
Cut	✓	✓	✓	✓	✓	✓
Clean-cut	✓	✓	✓	✓	✓	✓
Fade	✓	✓	✓	✓	✓	✓
Slide	✓	✓	✓	✓	✓	✓
Wipe	✓	✓	✓	✓	✓	✓
Stretch	✓		✓			
Circle	✓		✓			
Flying layer	✓	✓	✓	✓	✓	✓
Flying zoom	✓	✓	✓	✓	✓	✓
Mirror Effect	✓		✓			
Smooth Move	✓	✓	✓	✓	✓	✓
FRAME & LOGO	✓	✓	✓	✓	✓	✓
Available frames	8	8	8	8	8	8
Available logos (including animated logo)	8 (1)	8 (1)	8 (1)	8 (1)		
AUDIO INPUTS						
Analog stereo inputs (Balanced)	4	4	4	4	4	4
S/PDIF inputs	2	2	2	2	2	2
SDI input audio de-embedding	✓	✓	✓	✓	✓	✓
HDMI input audio de-embedding	✓	✓	✓	✓	✓	✓
HDBase-T input audio de-embedding						
AUDIO OUTPUTS						
Analog stereo output (Balanced)	Program + Prelist	Program + Prelist	Program + PGM 1 & 2	Program + Prelist	Program + PGM 1 & 2	Program + Prelist
S/PDIF stereo outputs	Program + Prelist	Program + Prelist	Program + PGM 1 & 2	Program + Prelist	Program + PGM 1 & 2	Program + Prelist
HDMI output audio embedding (DVI plug)	✓	✓	✓	✓	✓	✓
HDBase-T output audio embedding	✓	✓	✓	✓	✓	✓
PROCESSING						
Stochastic adaptative hybrid de-interlacer	✓	✓	✓	✓	✓	✓
Auto Centering	✓	✓	✓	✓	✓	✓
Aspect ratio	✓	✓	✓	✓	✓	✓
Freeze	✓	✓	✓	✓	✓	✓
Luma/Chroma key	✓(Basic)	✓(Basic)	✓(Basic)	✓(Basic)	✓(Basic)	✓(Basic)
Zoom/Shrink/Crop	✓	✓	✓	✓	✓	✓
Dynamic Fit	✓	✓	✓	✓	✓	✓
HUMAN MACHINE INTERFACE						
Front panel display	4-line VFD	4-line VFD	4-line VFD	4-line VFD	4-line VFD	4-line VFD
RCS <sup>2</sup> (Remote Control Software)	✓	✓	✓	✓	✓	✓
Remote Keypad Ref. RK-350	✓	✓	✓	✓	✓	✓
Orchestra <sup>2</sup> Ref. ORC50	✓	✓	✓	✓	✓	✓
Shot Box <sup>2</sup> Ref. SB80-2	✓	✓	✓	✓	✓	✓
FORM FACTOR						
Rack width	19"	19"	19"	19"	19"	19"
Enclosure	2RU	2RU	2RU	2RU	2RU	2RU
Rack mount kit supplied	✓	✓	✓	✓	✓	✓

# Midra™ series: Overall Comparison

References	Saphyr - H Ref. SHX450-H	SmartMatriX <sup>2</sup> - H Ref. SMX250-H	Pulse <sup>2</sup> - H Ref. PLS350-H	QuickMatriX - H Ref. QMX150-H	SmartMatriX <sup>2</sup> - H LE Ref. SMX250-H-LE	QuickMatriX - H LE Ref. QMX150-H-LE
OPERATION MODE	2	1	2	1	1	1
Mixer mode	✓		✓			
Native Matrix mode	✓	✓	✓	✓	✓	✓
Quadravision						
INPUTS	10	10	8	8	8	8
Universal Analog plugs	2	2	2	2	2	2
HDMI plugs	4	4	4	4	4	4
HDBaseT plugs	4	4	2	2	2	2
Single Link DVI-D plugs	2	2	2	2	2	2
3G/HD/SD SDI plugs	4	4	2	2	2	2
Max. resolution	2K / 2048x1152	2K / 2048x1152	2K / 2048x1152	2K / 2048x1152	2K / 2048x1152	2K / 2048x1152
Universal analog input EDID	✓	✓	✓	✓	✓	✓
EDID (Compliant Digital Plugs)	✓	✓	✓	✓	✓	✓
HDCP Compliance	✓	✓	✓	✓	✓	✓
PROGRAM OUTPUTS	2	2	2	2	1	1
Universal Analog plug						
Single Link DVI-I plug						
HDMI plugs	✓	✓	✓	✓	✓	✓
HDBaseT plugs	✓	✓	✓	✓	✓	✓
Max resolution	2K / 2048x1152	2K / 2048x1152	2K / 2048x1152	2K / 2048x1152	2K / 2048x1152	2K / 2048x1152
Custom formats	✓	✓	✓	✓	✓	✓
EDID detection (Analog & DVI)	✓	✓	✓	✓	✓	✓
HDCP Compliance	✓	✓	✓	✓	✓	✓
VIDEO OUTPUT	1	1	1	1	1	0
CVBS	✓	✓				
Components (YPbPr)	✓	✓				
3G/HD/SD SDI plug	✓	✓	✓	✓	✓	
SDTV/EDTV formats	✓	✓	✓	✓	✓	
HDTV formats	✓	✓	✓	✓	✓	
Max resolution	DCDM2K / 2048x1080	DCDM2K / 2048x1080	DCDM2K / 2048x1080	DCDM2K / 2048x1080	DCDM2K / 2048x1080	
MAXIMUM LAYERS PER OUTPUT						
Mixer mode	3		2			
Native Matrix mode	1 + 1 keyed	2	1	1 + 1 keyed	2	1 + 1 keyed
Quadravision mode						
TRANSITION & EFFECTS						
Cut	✓	✓	✓	✓	✓	✓
Clean-cut	✓	✓	✓	✓	✓	✓
Fade	✓	✓	✓	✓	✓	✓
Slide	✓	✓	✓	✓	✓	✓
Wipe	✓	✓	✓	✓	✓	✓
Stretch		✓			✓	
Circle		✓			✓	
Flying layer	✓	✓	✓	✓	✓	✓
Flying zoom	✓	✓	✓	✓	✓	✓
Mirror Effect		✓	✓	✓	✓	
Smooth Move	✓	✓	✓	✓	✓	✓
FRAME & LOGO	✓	✓	✓	✓	✓	✓
Available frames	8	8	8	8	8	8
Available logos (including animated logo)	8 (1)	8 (1)	8 (1)		8 (1)	
AUDIO INPUTS						
Analog stereo inputs (Balanced)	4	4	4		4	4
S/PDIF inputs	2	2	2		2	2
SDI input audio de-embedding	✓	✓	✓		✓	✓
HDMI input audio de-embedding	✓	✓	✓		✓	✓
HDBase-T input audio de-embedding	✓	✓	✓		✓	✓
AUDIO OUTPUTS						
Analog stereo output (Balanced)	Program + Prelist	Program + Prelist	Program + Prelist	Program + Prelist	Program	Program
S/PDIF stereo outputs	Program + Prelist	Program + Prelist	Program + Prelist	Program + Prelist	Program	Program
HDMI output audio embedding	✓	✓	✓	✓	✓	✓
HDBase-T output audio embedding	✓	✓	✓	✓	✓	✓
PROCESSING						
Stochastic adaptative hybrid de-interlacer	✓	✓	✓	✓	✓	✓
Auto Centering	✓	✓	✓	✓	✓	✓
Aspect ratio	✓	✓	✓	✓	✓	✓
Freeze	✓	✓	✓	✓	✓	✓
Luma/Chroma key	✓(Basic)	✓(Basic)	✓(Basic)	✓(Basic)	✓(Basic)	✓(Basic)
Zoom/Shrink/Crop	✓	✓	✓	✓	✓	✓
Dynamic Fit	✓	✓	✓	✓	✓	✓
HUMAN MACHINE INTERFACE						
Front panel display	4-line VFD	4-line VFD	4-line VFD	4-line VFD	4-line VFD	4-line VFD
RCS <sup>2</sup> (Remote Control Software)	✓	✓	✓	✓	✓	✓
Remote Keypad Ref. RK-350	✓	✓	✓	✓	✓	✓
Orchestra <sup>2</sup> Ref. ORC50						
Shot Box <sup>2</sup> Ref. SB80-2	✓	✓	✓	✓	✓	✓
FORM FACTOR						
Rack width	19"	19"	19"	19"	19"	19"
Enclosure	2RU	2RU	2RU	2RU	2RU	2RU
Rack mount kit supplied	✓	✓	✓	✓	✓	✓



Event Controllers for Midra™ series

Orchestra² - Ref. ORC50

Powerful intuitive and Ergonomic Controller for Rental and Staging/Multi-venues/Integration



- Controls simultaneously up to 6 screens in single or multiple display configuration
- Controls a large number of Analog Way's seamless Switchers
- Stores up to 64 presets per screen selection
- T-Bar for smooth manually controlled transitions
- Joystick for easy and fast set up of images or effect parameters

RK-350 - Ref. RK-350

Remote Control Keypad designed to control Midra™ series seamless switchers



- User-friendly Remote Control Keypad
- Compatible with all Midra™ series
- Mini-Joystick for easy element control
- Large VFD Display offering high contrast menu
- Direct layers, logos, frames and sources selection
- Mini T-bar to control effect level

Shot Box² - Ref. SB80-2

Compact solution to easily control the presets on the Midra™ series



Ref. SB80-2

- 76 function-labeled keys
- Addressable blue and red backlighting
- Compatible with LiveCore™ series and Midra™ series
- Include software for Windows® or Mac OS X® and a robust carrying case

Software & tools

AW EDID Editor

Free tool to create and edit EDID files for an optimal compatibility between your sources and displays



- Open & edit any standard EDID file (text or binary)
- Simple and intuitive user interface
- Supports EDID versions 1.3 and 1.4
- Supports CEA-861 Extension (versions 1, 2 and 3)
- Format Timing Wizard (CVT 1.2 standard)
- Available for Windows® & Mac OS®

LiveCore™ - Midra™ - VIO 4K

AW Screen Frame Cutter

Free tool to split any wide-screen image into multiple still backgrounds for your multi-projector Soft Edge Blending



- Configure the Soft Edge horizontal and vertical size
- Configure projectors resolution
- Configure image settings (size, position and background color)
- Input formats supported: BMP, JPG, PNG, TIFF and GIF
- Output format: PNG
- Simple and intuitive user interface
- Ability to save and restore tool state and configuration
- Available for Windows® and Mac OS®

LiveCore™ - VIO 4K

AW Toolbox

iPad App to control Analog Way's LiveCore™ presentation mixers



- Recall presets with seamless transitions
- Recall your monitoring output presets
- Recall your confidence screen presets
- Display sources and logos with dynamic snapshots and properties
- Configure inputs settings (current plug, HDCP, test pattern, freeze,...)
- Configure outputs settings (HDCP, gamma, test pattern,...)
- Control your monitoring output
- Fine tune your multi-projector Soft Edge Blending

LiveCore™

VIO 4K

VIO 4K - Ref. V701

The Ultimate Video Processing Tool Box



9 IN 3 OUT 2RU size

VIO 4K at a glance

- The «All in One» solution for any conversion
  - User-friendly and intuitive graphic interface
  - Comprehensive set of option cards for video and audio system expansion
  - Advanced LED Wall functionalities
  - Ultra-low latency 10-bit 4:4:4 processing
  - New exclusive high-quality scaling engine
  - Unlimited zooming and shrinking
  - Live monitoring of sources on the large 3.5" Color TFT LCD Display
  - Cross hatch, dynamic pattern
  - New audio management: 8 channels up to 96kHz (Digital audio)
  - Audio Delay compensation up to 300ms
  - Fast swappable DVI I/O boards
  - Memory space for 4K frames (up to 2 directly accessible by the screen)
  - USB Host: mass storage
  - USB Device link
  - Import/export device configuration
  - DVI, HDMI & HD15 output plugs available as video loop-through
- Key features**
- 7 native inputs and 1 native output
  - Scalable to up to 9 inputs and 3 scaled outputs (when optioned)
  - 2 slots for video option card system expansion
  - 1 slot for audio option card system expansion
  - High-quality scaling engine producing crisp and truly natural images
  - The source can be positioned anywhere on the screen, and up to 100% outside the screen in any direction
  - Easy Area Of Interest and pixel pitch management
  - Genlock + Loop-through: Tri-level Sync. (HD) and Black Burst (SD)
  - All Genlock timings meet broadcast ITU/SMPTE standards
  - Output rotation: 90°, 180° and 270° per output

The "All in One" selection for any conversion

Anything In

- ▶ Composite (PAL, NTSC)
- ▶ S-Video
- ▶ YUV (Y CB Cr)
- ▶ Computer (RGBHV, RGBS, RGsB)
- ▶ HD-YUV (HD-YCrCb)
- ▶ HD-RGB
- ▶ DVI
- ▶ DisplayPort
- ▶ HDMI
- ▶ HD/SD-SDI
- ▶ 3G-SDI
- ▶ 12G-SDI (Expansion Interface)
- ▶ Digital Audio: AES/EBU & 3id (Expansion Interface)
- ▶ 8-channel Dante Audio interface (Expansion Interface)
- ▶ Analog Audio Stereo
- ▶ Digital Audio

Anything Out

- ▶ 1080P/1080i
- ▶ 720P
- ▶ 480P/480i
- ▶ 2K/1080p
- ▶ WUXGA (1920x1200@60Hz)
- ▶ WQXGA (2560x1600@60Hz)
- ▶ UHD (3840x2160@30Hz)
- ▶ 4K (4096x2160@30Hz)
- ▶ Ultra High Resolution up to 4K@60P 4:4:4 (Expansion Interface)

VIO 4K's input and output timings are fully compliant with standards and norms by SMPTE, VESA, HDMI and CEA.

Options



OPT-AUDIODANTE-VIO4K  
8-channel Dante™ audio expansion interface



OPT-4KP60P-SDI-VIO4K  
DP 1.2, HDMI 2.0, 12G-SDI and quad-link 3G-SDI 4K@60p (4:4:4 and 4:2:2) expansion interface



OPT-AUDIOXLR-VIO4K  
XLR Audio expansion interface



OPT-4K60P-VIO4K  
DP 1.2 and HDMI 2.0 - 4K@60p 4:4:4 expansion interface



OPT-OUT-VIO4K  
Output 4K@30p expansion interface



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