

Product Overview Brochure

2016



ANALOG WAY®
Pioneer in Analog, Leader in Digital

LiveCore™ series: Overview

NeXtage 08 - Ref. NXT0802



Power true-seamless AV Processor with 8 scalars

- 8 seamless inputs and 28 input plugs
- 2 outputs
- Independent Preview/Mosaic/Monitoring output
- Full live Preview of all sources (Preview/Mosaic/Monitoring)
- Customization of monitoring layouts (Up to 8 templates stored)
- 2 true-seamless scaled layers + 1 native back-ground layer per output

- Advanced Layer management
- Cut & Fill Features
- Rotation capability in output (Step by 90°)
- Ruggedized and heavy-duty design
- User-friendly & intuitive Graphic Interface (Web RCS)
- Option: 4K processing upgrade (4K@30Hz 4:4:4)

1 PRW

8 IN

2 OUT

3U size



NeXtage 16 - Ref. NXT1604



Power true-seamless AV Processor with 16 scalars

- 4 true-seamless scaled layers + 1 native back-ground layer per output

- Option: 4K processing upgrade (4K@30Hz 4:4:4)

1 PRW

8 IN

2 OUT

3U size

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



Powerful multi-screen seamless Switcher with 16 scalars

- 12 seamless inputs and 42 input plugs
- 4 outputs
- 2 true-seamless scaled layers + 1 native back-ground layer per output
- Additive and associative modularity
- Input format up to 4K@30Hz 4:4:4 on HDMI plug or four quadrant 4K@60Hz 4:2:0

- Output format up 4K@30Hz 4:4:4, 4K@60Hz on HDMI plug 4:2:0 and four quadrant 4K@60Hz 4:4:4
- 4K frames support
- Heterogenous Link support
- Independent Output rate

1 PRW

12 IN

4 OUT

4U size



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



Powerful multi-screen seamless Switcher with 32 scalars

- 4 true-seamless scaled layers + 1 native background layer per output

- Device temporary downgrade

1 PRW

12 IN

4 OUT

4U size



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



Powerful multi-screen seamless Switcher with 48 scalars

- 6 true-seamless scaled layers + 1 native background layer per output

- Option: Perspective Layer upgrade

1 PRW

12 IN

4 OUT

4U size

Vertige™ - Ref. VRC300



Premium Remote Controller for large Events/Multi-venues

- User-friendly remote console
- Fast management of layers and presets
- Advanced features for events
- Contextual buttons

- Large 16/9 TFT color touch screen for preview and configurations
- Compatible with all LiveCore™ series

LiveCore™ series: Overall Comparison

References	Ascender 48 - 4K Ref. ASC4806-4K	Ascender 32 - 4K Ref. ASC3204-4K	Ascender 16 - 4K Ref. ASC1602-4K	NeXtage 16 Ref. NXT1604	NeXtage 08 Ref. NXT0802
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	6	6
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	2K/WQXGA	2K/WQXGA
Independent Preview/Mosaic/Monitoring Output (Full live Preview all sources)	✓	✓	✓	✓	✓
Video Out 3G/HD/SD-SDI - RGB - RGsB - RGsB - YUV - Y/C - Comp	✓	✓	✓	✓	✓
Monitoring DVI or DVI Dual-Link	✓	✓	✓	✓	✓
HDCP compliant DVI	✓	✓	✓	✓	✓
Independent Output Rate	✓	✓	✓		
MULTI-DISPLAY CONFIGURATIONS					
Associative Modularity Via Vertige™ Ref. VRC300 Console (up to 4 units)	✓	✓	✓	✓	✓
Soft Edge H&V: max number of outputs with associative modularity	16	16	16	8	8
Hard Edge H&V: max number of outputs with associative modularity	16	16	16	8	8
Additive Modularity via Web RCS (Link between 2 units only)	✓	✓	✓		
Soft Edge H&V: max number of outputs with additive modularity	8	8	8		
Hard Edge H&V: 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	✓	✓	✓	✓	✓
Displaying of 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 Web RCS	✓	✓	✓	✓	✓
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 Frame Lock input	✓	✓	✓	✓	✓
HUMAN MACHINE INTERFACE					
Web RCS (Web Based Remote Control Software)	✓	✓	✓	✓	✓
Remote Services	✓	✓	✓	✓	✓
Remote Maintenance Tools	✓	✓	✓	✓	✓
Remote Controller - VRC300	✓	✓	✓	✓	✓
4K HARDWARE				Option: OPT-4K-NXT1604	Option: OPT-4K-NXT0802
Number of 4K 30Hz 4:4:4 HDMI inputs	3	3	3	2	2
Max input resolution	Ultra HD & 4K	Ultra HD & 4K	Ultra HD & 4K	Ultra HD & 4K	Ultra HD & 4K
Number of HDMI outputs in 4K 30Hz 4:4:4 mode	2	2	2	1	1
Number of HDMI 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 OPTION					
Reference	OPT-4K-ASC4806-PL				
Number of Perspective Layers per output	3				
FORM FACTOR					
Rugged Design	✓	✓	✓	✓	✓
Enclosure	4RU	4RU	4RU	3RU	3RU
Rack mount kit supplied	✓	✓	✓	✓	✓

Midra™ series: Overview

QuickVu 3G - Ref. QVU150-3G



Hi-Resolution Mixer seamless Switcher with 8 inputs

• 8 seamless inputs

• 2 outputs (Program and Preview)

• 14 input plugs available

• Capability to switch between any input plugs

• 1 operating mode: Mixer mode

• True seamless switching with full preview

• Ability to modify the program in real time without using the Preview

• Quick Frame mode

• Outputs fully resizable

• 3G-SDI video output

• Transitions: Fade, Dissolve, Cut, Wipe & Slide

• Full audio Digital Compliant on DVI-D & HDMI plugs

• Advanced Audio Management with the RCS²

• EDID Management on 6 inputs

• Ability to read and display the output EDIDs

• Custom output formats

• Chroma/Luma Key & Titling

1 PRW

8 IN

2 OUT

2U size

Pulse² 3G - Ref. PLS350-3G



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

• Up to 2 layers on Frame Background

• 2 operating modes: Mixer and Native Matrix modes

• Direct Swap function

• Direct Split function

• Dynamic Layer (Moving from A to B) with Flying, Zooming and Cropping

• Freeze features (Input/Layer/Screen)

1 PRW

8 IN

2 OUT

2U size

Saphyr - Ref. SPX450



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

• 10 seamless inputs

• 16 input plugs available

• Up to 3 layers on Frame Background

• Mosaic Preview mode with 2 modes

• Video output (CVBS, YPbPr, 3G-SDI) (Zoom 50 to 400%)

• Capability to crop the Frames and Logos

1 PRW

10 IN

2 OUT

2U size

Eikos² - Ref. EKS550



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

• 3 operating modes: Mixer, Native Matrix and QuadraVision modes

• Advanced Native Matrix mode

• Up to 4 layers on Frame Background in QuadraVision mode

• Transitions: Stretch, Circle, Depth & Flip Mirror effect

1 PRW

10 IN

2 OUT

2U size

Orchestra² - Ref. ORC50



Powerful intuitive and Ergonomic Controller for Rental and Stagting/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

• Can store 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 Analog Way's 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

Midra™ series: Overall Comparison

References	Eikos² Ref. EKS550	Saphyr Ref. SPX450	Pulse² 3G Ref. PLS350-3G	QuickVu 3G Ref. QVU150-3G
OPERATION MODE	3	2	2	1
Mixer mode	✓	✓	✓	✓
8 x 2 Native Matrix mode			✓ (Basic)	
10 x 2 Native Matrix mode	✓ (Advanced)	✓ (Medium)		
QuadraVision	✓			
INPUTS	10	10	8	8
Universal Analog plugs	4	4	4	4
HDMI plugs	4	4	4	4
Single Link DVI-D plugs	4 (HDMI compatible)	4 (HDMI compatible)	4 (HDMI compatible)	4 (HDMI compatible)
3G/HD/SD SDI plugs	4	4	2	2
Max. resolution	2K / 2048x1152	2K / 2048x1152	2K / 2048x1152	2K / 2048x1152
Universal analog input EDID	4	4	4	4
EDID (DVI - HDMI-DisplayPort)	8 (All plugs)	8 (All plugs)	8 (All plugs)	8 (All plugs)
HDCP Compliance(DVI - HDMI)	✓	✓	✓	✓
PROGRAM OUTPUTS	2	2	2	2
Universal Analog plug	✓	✓	✓	✓
Single Link DVI-I plug	✓	✓	✓	✓
3G/HD/SD SDI plug	✓	✓	✓	✓
Computer formats	✓	✓	✓	✓
HDTV formats	✓	✓	✓	✓
Max resolution	2K / 2048x1152	2K / 2048x1152	2K / 2048x1152	2K / 2048x1152
EDID detection (Analog & DVI)	✓	✓	✓	✓
HDCP Compliance	✓	✓	✓	✓
VIDEO OUTPUT	1	1	0	0
CVBS	✓	✓		
Y/C	✓	✓		
Components (YPbPr, RGBS)	✓	✓		
3G/HD/SD SDI plug	✓	✓	✓	✓
SDTV/EDTV formats	✓	✓	✓	✓
HDTV formats	✓	✓		
Max resolution	2K / 2048x1152	2K / 2048x1152		
HDCP Compliance	✓	✓		
MATRIX MODE LAYERS				
Background frame layer	1	1		
Native Background layer (Not scaled)	1	1		
Fully resizable Layers	2	1 (True seamless)	1 (True seamless)	
Foreground logo layers	1	1		
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
Available logos (animated logo)	8 (1)	8 (1)	8 (1)	8 (1)
AUDIO INPUTS				
Analog stereo inputs	4 Balanced	4 Balanced	4 Balanced	4 Balanced
S/PDIF inputs	2	2	2	2
SDI input audio de-embedding	✓	✓	✓	✓
HDMI input audio de-embedding	✓	✓	✓	✓
AUDIO OUTPUTS				
Analog stereo output (Balanced/UnBalanced)	Program (B) + Prelist (B)	Program (B) + Prelist (B)	Program (B) + Prelist (B)	Program (B) + Prelist (B)
S/PDIF stereo outputs	Program + Prelist	Program + Prelist	Program + Prelist	Program + Prelist
HDMI output audio embedding (DVI plug)	✓	✓	✓	✓
PROCESSING				
Stochastic adaptative hybrid de-interlacer	✓	✓	✓	✓
Auto Centering	✓	✓	✓	✓
Aspect ratio	✓	✓	✓	✓
Freeze	✓	✓	✓	✓
Luma/Chroma key	✓ (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
RCS² (Remote Control Software)	✓	✓	✓	✓
Remote Keypad RK-350	✓	✓	✓	✓
Remote Controller ORC50	✓	✓	✓	✓
Shot Box Ref. SB-80	✓	✓	✓	✓
FORM FACTOR				
Rack width	19"	19"	19"	19"
Enclosure	2U	2U	2U	2U
Rack mount kit supplied	✓	✓	✓	✓

LiveCore™ Output Expander 16
Ref. LOE016-4K



Expansion module gives 4 additional Program outputs and 1 Operator/Aux output for SmartMatrix Ultra & Ascender 16

- 2 true-seamless scaled layers + 1 native background layer per output
- 4 outputs
- Output format up to 4K@30p 4:4:4, 4K@60Hz 4:2:0 on HDMI plug & four quadrant 4K@60Hz 4:4:4
- 4K frames support
- Heterogenous Link support

- 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

4U size

LiveCore™ Output Expander 32
Ref. LOE032-4K



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

- 4 true-Seamless scaled layers + 1 native background layer per output

1 PRW

4 OUT

4U size

LiveCore™ Output Expander 48
Ref. LOE048-4K



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

- 6 true-Seamless scaled layers + 1 native background layer per output
- Option: Perspective Layer upgrade

1 PRW

4 OUT

4U size

Secure Power Unit - Ref. SPU001



Innovative External Power Accessory for select LiveCore™ Switchers

- Power protection module for select LiveCore™ devices
- Dual power supplies provide redundancy against branch circuit failure
- Battery module secures against mains loss or unstable power

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/vertical size
- Configure projectors resolution
- Configure image settings (size, position & background color)
- Input formats supported: BMP, JPG, PNG, TIFF and GIF
- Output format: PNG
- Simple and intuitive user interface
- Available for Windows & Mac OS

Shot Box & Control Box



Cost effective solution to easily control the main commands on the LiveCore™ & Midra™ series

- 76 (SB-80) / 99 (SB124-T) function-labeled keys
- T-Bar to control manually transitions (SB124-T)
- Addressable blue and red backlighting
- Instantly usable for LiveCore™ series (External Software supplied)
- Instantly usable for Midra™ series* (Direct control from the RCS² software)
- USB connection to PC or Mac
- Includes USB controller, carrying case and Software fees

Ref. SB-80

Ref. SB124-T

* Only for Ref. SB-80

VIO 4K - Ref. V701

The Ultimate Video Processing Tool Box



7 IN

3 OUT

2U size

VIO 4K at a glance

- The «All in One» solution for any conversion
- User-friendly and Intuitive Graphic Interface
- Diverse selection of option cards for video and audio system expansion
- Advanced LED Wall functionalities
- 10-bit processing 4:4:4



Option

- **OPT-4K60P-VIO4K:** DP1.2 and HDMI 2.0 - I/O Expansion Interface (Available Q4 2016)
- **OPT-AUDIOXLR-VIO4K:** AES/EBU & i3D Digital Audio (XLR) & Analog Stereo balanced audio (XLR) - I/O Expansion Interface

Key features

- Up to 9 inputs and 3 independent outputs
- 2 slots for video option card system expansion
- 1 slot for audio option card system expansion
- The source can be positioned anywhere on the screen, and up to 100% outside the screen in any direction
- Easy Area Of Interest management
- Genlock + Loophrough: Tri-level Sync. (HD) and Black Burst (SD)
- All Genlock timings meet broadcast ITU/SMPTE standards
- Output rotation: 90°, 180° and 270° per output
- 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, AES & 3id)
- Audio Delay compensation up to 300ms
- Fast swappable DVI I/O boards
- Memory space for frames in 4K (up to 2 directly accessible by the screen)
- USB Host: mass storage
- USB Device link

The "All in One" selection for any conversion



The expansion interfaces are shown here as an example of options

Anything In

Anything Out

- ▶ 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
- ▶ 6G-SDI* (Compliant Level A & B)
- ▶ 12G-SDI (Expansion Interface)
- ▶ Digital Audio: AES/EBU & i3d (Expansion Interface)

- ▶ Analog Audio Stereo
- ▶ Digital Audio
- ▶ 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 (Expansion Interface)

*Available Q4 2016

Universal system for format conversion

- ▶ Upward conversion (Scaler)
- ▶ Downward conversion (Scan Converter)
- ▶ Transcoder
- ▶ Coder

- ▶ Aspect ratios
- ▶ Multi-format Analog Genlock
- ▶ Dynamic Test Patterns
- ▶ Pan & Zoom function
- ▶ Freeze Frame

- ▶ Aperture correction
- ▶ Advanced LED Wall functionalities
- ▶ Audio and Video monitoring directly from the front panel
- ▶ Output rotation

- ▶ Custom Formats
- ▶ EDID Management
- ▶ Genlock/Framelock
- ▶ Gamma correction & Color Temperature settings



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