

Ascender 16 LE - 4K

Ref. ASC16LE-4K



Cutting edge, solid state, multi-output seamless switcher and video wall processor.
Perfect for live events and system integration



Flexible and Powerful

Like all the products of the **LiveCore™** series, the **Ascender 16 LE - 4K** offers flexibility through its support of different video standards (custom formats included) and its versatile connectivity. It also features state-of-the-art live processing and a rich 4K hardware package allowing creative display configurations such as multi-projector soft-edge blending or large scale video walls applications.



Built for Dependability

The **LiveCore™** series of product has been designed to provide a robust hardware platform that you can rely on for all of your video processing and seamless switching needs. Engineered to be road-hardened to survive tough live event environments and also for the long-haul in fixed installations. From Live concerts, to permanent LED walls in stadiums, **LiveCore™** has you covered.

Designed for Creativity

The **Ascender 16 LE - 4K** offers many advanced real time processing features that you might only expect to find in high-end professional broadcast studios. Cut and fill, alpha-channel support, Chroma and Luma key, true seamless switching on all layers as well as an intuitive web based user interface which will help unleash all your creative potential.

Expandable for Larger Events

For larger events or larger screens, 2 chassis can be linked via proprietary link cables. In this configuration, input/output capabilities are doubled without requiring any upstream splitter or any matrix router. For even more impressive shows, multiple chassis can be controlled by **Vertige™** or **RCU** to create huge video canvases with up to 96 outputs and 192 megapixels.

Up to
12
inputs

Up to
4
outputs

4U
size

Up to
4K
60Hz


Cut & Fill


Rotation

Ascender 16 LE - 4K at a glance

- ▶ Versatile connectivity (12 seamless inputs and 42 input plugs)
- ▶ State-of-the-art, real-time 10 bit 4:4:4 processing
- ▶ Advanced video effects for impressive visual shows
- ▶ True-seamless switching technology
- ▶ User-friendly and intuitive Web-based graphic user interface
- ▶ Heavy-duty design for optimized uptimes in mission-critical use

	Ascender 16 LE - 4K	Ascender 32 LE - 4K	Ascender 48 LE - 4K
Layers per output	2	4	6

KEY FEATURES

- Based on LiveCore™ platform
- Ruggedized and heavy-duty design
- Versatile connectivity (12 active inputs, 42 total input plugs)
- Input formats up to Dual Link 60Hz 4:4:4 or 4k30Hz 4:4:4 - supports Quad HD sources
- Output formats up to 4K30Hz 4:4:4, 4K60Hz 4:2:0 and Quad HD 60Hz 4:4:4
- Seamless crossfade on all layers, on all 12 sources
- Rotation capability on all outputs
- Independent output rate
- Flying layer movement with programmable paths
- Multiple layer transition options
- Independent preview/mosaic/monitoring output
- Customization of monitoring layouts (8 presets)
- Intuitive drag and drop Web based GUI, cross platform compatible
- Live video thumbnails shown on GUI
- Collaborative architecture (up to 5 simultaneous operators)
- Single screen memories and master memories to easily recall looks on all your screens
- Creative display configurations (mixer, hard-edge, soft-edge)
- Custom output formats for non-standard display applications (10 memories)
- Custom Canvas mode allows you to place outputs anyway on your "video canvas" for special LED wall applications
- Area of Interest option to customize active areas of outputs
- Confidence monitor available for unused outputs
- Native background using still images or live sources
- Still images support alpha-channels for transparent background
- Cut and Fill (using two sources or a source and a still image)
- Quiet: 49dB average noise at 1m when ambient temperature is less than 32°C/90°F
- Additive modularity (increase the outputs and/or inputs by adding an additional Ascender or LOE)
- Associative modularity (create a large system of LiveCore™ units all controlled from a Vertige™ or from RCU)
- Sequencer for creating programmable timelines
- Remote services and maintenance
- HDCP compliant

Dimension (in Rack Units - RU)

▶ 4RU

Dimensions (without rack ears and rear rack mount)

▶ W 17.32" x H 6.96" x D 20.47"
▶ L 440 mm x H 177 mm x P 520 mm

Dimensions (with handles)

▶ W 19" x H 6.96" x D 21.41"
▶ L 482.6 mm x H 177 mm x P 544 mm

Weight without accessories

▶ 18.5 kg / 40.78 lbs

Shipping weight accessories included

▶ 24.3 kg / 53.57 lbs

Operating conditions

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

Noise (@1,6m height @25°C)

▶ Front: 49 DBa@1m
▶ Rear: 51 DBa@1m

Thermal dissipation

▶ 1024 BTU/hr

Warranty

3-year warranty on parts and labor back to factory

Power Supply

▶ 100-240 VAC 50/60Hz 8A swappable
▶ Max consumption: 300 W

Safety Compliance

▶ IEC/UL/EN 60950-1, CSA22.2#60950-1, UL Listed (US & Canada) File:E359143

Supplied with

▶ 1 x Power supply cord
▶ 1 x Web-based Remote Control Software
▶ 1 x Rackmount kit
▶ 1 x Ethernet cross cable (for device control)
▶ 1 x MCO 10 pin connector
▶ 1 x User manual (PDF)*
▶ 1 x Quick start guide including safety instructions*

INPUTS

- 12 active inputs, 42 total input plugs
- 6x HDMI (3x HDMI up to 4k30hz included)
- 3x DisplayPort (up to 4k30hz)
- 9x DVI-I (3x DVI Dual-Link up to 2560x1600 included)
- 12x 3G/HD/SD-SDI
- 12x Universal Analog (6x HD15 & 6x DVI-A)

OUTPUTS

- 4 outputs with 5 plugs per output
- 8x Universal Analog (4x HD15 & 4x DVI-A)
- 4x 3G/HD/SD-SDI
- 2x DVI-I Dual-Link up to 2560x1600 (output #1 and #3)
- 2x DVI/HDMI 4K up to 4k30hz 4:4:4 or up to 4k60hz 4:2:0 (output #2 and #4)
- 4x SFP (Optical for SDI Fiber transmission)

MONITORING OUTPUT

- 2x Universal Analog (HD15 & DVI-A)
- 1x DVI-I
- 2x 3G/HD/SD-SDI
- 1x RGBs/RGsB/RGB/YPrBr/YC/comp analog output
- Customizable labels - Up to 12 widgets

LAYERS

- 2 True-Seamless scaled layers per output
- 1 native background layer per output
- Advance layer management

TRANSITIONS & EFFECTS

- True A/B Mix
- Borders: Edge, Smooth, Smooth Edge, Shadow...
- Transitions: Cut, Fade, Slide, Wipe, Circle, Stretch, Depth, Flying window
- Layer effects: Background Cut, Transparency, Luma/Chroma Key, DSK, H&V Flip, Cut and Fill
- Colors effects: B&W, Negative, Sepia and Solarize

FRAMES & LOGOS

- Up to 100 frame/logo memories – Fully resizable
- Download/upload via Web RCS
- Capture from live inputs

CONTROL

- Web RCS: On-board intuitive web based user interface
- Vertige™: Premium remote controller
- RCU: Rack mountable master control unit
- Shot Box²/Control Box²: Cost effective control solutions
- TCP protocol and AMX/Crestron drivers
- AW VideoCompositor: Drag & drop Crestron® GUI

OTHER FEATURES

- Tally/GPI-O
- Independent Frame Lock input and output loop

EXPANDABILITY

- 2 chassis can be linked via proprietary link cables to expand input/output capabilities
- Several chassis can be controlled from a Vertige™ or from RCU to create huge video canvases

 Specifications subject to change without prior notice

ASC16LE-4K_EN-01/15/2019