



Ascender 16-4K

LiveCore Series



#ASC1602-4K

Cutting edge, solid state, multi-output 4K seamless switcher and videowall processor based on the powerful LiveCore platform. Featuring heavy-duty design, versatile connectivity, state-of-the-art real-time processing, advanced video effects and user-friendly web-based user interface, the Ascender 16 - 4K is a perfect fit for live events and system integration requiring the highest reliability and performance.

12 Seamless Inputs

- 42 total input plugs
- 6x HDMI (3x HDMI up to 4K@30Hz included)
- 3x DisplayPort (up to 4K@30Hz)
- 9x DVI-I (3x DVI Dual-Link up to 2560x1600 included)
- 12x 3G/HD/SD-SDI
- 12x Universal Analog (6x HD15 and 6x DVI-A)
- Supports quad-head HD sources

4 Outputs

- 5 plugs per output
- 8x Universal Analog (4x HD15 and 4x DVI-A)
- 4x 3G/HD/SD-SDI
- 2x DVI-I Dual-Link up to 2560x1600
- 2x DVI/HDMI 4K up to 4K@30Hz 4:4:4 or up to 4K@60Hz 4:2:0
- 4x SFP (Optical for SDI Fiber transmission)
- Supports Quad HD (4K@60Hz 4:4:4 on 4 cables)



State-of-the-art Processing

Ultra-low latency 10 bit 4:4:4 processing
Uncompromising scaling performance and image quality
Supports de-interlacing, frame rate and aspect ratio conversion
2 true seamless scaled layers per output (16 scalers)
1 native background per output using still images or live sources
Advanced layer management

Advanced Video Effects

Seamless crossfade on all layers, on all 12 sources
Borders: Edge, Smooth, Smooth Edge, Shadow
Transitions: Cut, Fade, Slide, Wipe, Circle, Stretch, Depth, Flying window with programmable paths
Layer effects: Background Cut, Transparency, Luma/Chroma Key, DSK, H&V Flip, Cut and Fill
Color effects: B&W, Negative, Sepia and Solarize

Creative Display Configurations

Supports any combination of single-screen or widescreen applications
Single/Master screen memories to easily recall looks on all the screens
Custom output formats for non-standard display applications
Independent resolution and rate on all outputs
Rotation capability in increments of 90°
Custom Canvas mode for special LED wall applications
Area of Interest option to customize active areas of outputs
Confidence monitor available for unused outputs

Simple Setup and Advanced Control

Web RCS: embedded intuitive drag and drop web-based interface
Live video thumbnails shown on GUI
Collaborative architecture: up to 5 simultaneous operators
Wide range of hardware and software control solutions available (Vertige, RCU, Shot Box², Control Box²)
TCP/IP protocol supported by all major third-party control systems
AMX/Crestron drivers
AW VideoCompositor: design-intuitive drag and drop
Crestron user interfaces to control your live events with the LiveCore series image

Up to 100 Still Image Memories



Still images fully resizable
Download/upload via Web RCS
Capture from live inputs
Supports alpha-channels for transparent background

Independent Monitoring Output

Output plugs: HD15, DVI-I DL, 2x 3G-SDI and Analog
SDTV (4x BNC)
Customizable layout with up to 12 windows
Real-time monitoring of sources, preview, program
8 memories available to save custom monitoring layouts

Rugged Steel Chassis

Heavy-duty design for unrivalled reliability and durability
Independent Frame Lock input and output loop
Quiet: 49dB average noise at 1m
Tally/GPI-O

Expandable for Larger Events

2 chassis can be linked to double input/output
capabilities (24x8 system)
Up to 24 LiveCore chassis can be controlled to create
huge video canvases with up to 192 megapixels