

Encore Presentation Switcher

Modular, scalable presentation switcher



- Supports up to 32 screens
- For large blended widescreen applications
- Integrated control

Looking for a worthy replacement? Check out the E2!

The Encore Presentation Switcher is the most advanced video processing and presentation control system on the market today. The system provides source selection, automatic source acquisition and configuration, advanced windowing features, seamless switching, video effects and integrated control for professional video presentations. Encore's modular, scalable architecture allows the system to support a wide variety of show configurations. The system can efficiently support from 1-32 screens with any combination of independent display or seamless wide-screen display elements.

Full flexibility

The basic Encore configuration supports six independent picture-in-picture (PiP) or key layers, or three transitioning PiP images. It fully supports seamless transition effects, Z-order control, window borders, drop shadows and a variety of keying effects. Each input board on the Encore provides two independent scaler channels with universal inputs that handle both analog and digital video sources.

Ideally suited for large blended widescreen applications

The unit features 1:1 pixel sampling, motion adaptive de-interlacing for both standard and high definition sources, 3:2 and 2:2 pull down detection, low video delay, aspect ratio correction, real-time window manipulation. The Encore is an excellent solution for large blended widescreen applications.

Total event control

Each Encore system consists of a Controller and one or more Video Processors, and each system is designed to grow in tandem with your creative requirements. With a full array of unsurpassed features, dynamic input flexibility and the superb

quality of Barco's scaling technology, Encore is the premiere choice for professional video presentations.

- Supports up to 12 independent windows or 6 windows with seamless transitions
- (2) Native high resolution background channels provide background video with seamless transition effects
- Special Effects
 - A full range of transition effects (dissolve, wipe, etc.)
 - A full range of transition effects (dissolve, wipe, etc.)
Smooth PIP move & sizing controlled via key frames
 - Smooth PIP move & sizing controlled via key frames
Adjustable PIP aspect ratio
 - Adjustable PIP aspect ratio
PIP borders, including drop shadows and soft edge
 - PIP borders, including drop shadows and soft edge
PIP clone (mirror and offset)
 - PIP clone (mirror and offset)
- Keying
 - Luminance key
 - Luminance key
Split key (key alpha and fill)
 - Split key (key alpha and fill)
Reverse key (key on background)
 - Reverse key (key on background)
Color key (graphics)
 - Color key (graphics)
Alpha mixing
 - Alpha mixing
- (1) Native high resolution downstream key channel independent of PIP/KEY processing channels
- Video processing
 - 10-bit processing
 - 10-bit processing
1:1 pixel sampling
 - 1:1 pixel sampling
Motion adaptive de-interlacing (SD & HD)
 - Motion adaptive de-interlacing (SD & HD)
3:2 and 2:2 pull down detect
 - 3:2 and 2:2 pull down detect
Image cropping
 - Image cropping

- Image cropping
 - Aspect ratio correction
- Aspect ratio correction

- Athena proprietary high-performance scaling
- Low video delay - less than 3 input fields
- Z-order control (priority layers) for overlapping PIP or key images
- Each mixer layer is dynamically re-assignable as a mixing (transitioning) PIP, or as two individual (SPLIT) nontransitioning PIP or key images.
- Still frame : frame grab of background and downstream key sources
- Complete look-ahead preview
- On-screen display (preview monitor) of layer information and status
- Supports blended widescreen projection
- Output synchronization: free-run or vertically locked to NTSC/PAL blackburst
- Edge blending
 - 10-bit processing
- 10-bit processing
 - Variable overlap
- Variable overlap
 - Supports standard and pre-overlapped background sources
- Supports standard and pre-overlapped background sources
 - Edge blending (feathering)
- Edge blending (feathering)

- 3G/HD/SD SDI output
 - SMPTE 259M-C (standard definition)
- SMPTE 259M-C (standard definition)
 - SMPTE 292M (high definition up to 1080i @ 60Hz)
- SMPTE 292M (high definition up to 1080i @ 60Hz)
 - SMPTE 424M (high definition up to 1080p @ 60 Hz)
- SMPTE 424M (high definition up to 1080p @ 60 Hz)

Product specifications**ENCORE PRESENTATION SWITCHER**

General specifications	
Mixer/Effects: Analog inputs	RGBHV/RGBS/RGsB computer video, YPbPr video (SD or HD), S-video, or Composite video on 15-pin HD connector
Mixer/Effects: SD/HDS/SDI inputs	per SMPTE 259M-C (NTSC/PAL resolution) SMPTE 292M (HDTV) on BNC connector
Mixer/Effects: DVI input	per DDWG 1.0 on DVI-I connector
Mixer/Effects: Input Resolutions	· NTSC/PAL · Computer Resolutions VGA (640 x 480) through UXGA (1600 x 1200) · HDTV Resolutions up to 1920 x 1080 (720p, 1080i, 1080p) · 2048 x 1080p (Digital Cinema format) · Plasma Display Resolutions
Native Resolution Background: Analog inputs	RGBHV computer video on DVI-I connector
Native Resolution Background: DVI input	per DDWG 1.0 on DVI-I connector
Native Resolution Background: Input Resolutions	· Computer Resolutions: SVGA (800 x 600) through UXGA (1600 x 1200) · HDTV Resolutions (720p, 1080p) · 2048 x 1080p (Digital Cinema format) · Plasma Display Resolutions
Downstream Key Input: Analog	RGBHV computer video on DVI-I connector
Downstream Key Input: DVI	per DDWG 1.0 on DVI-I connector
Downstream Key Input: Resolutions	· Computer Resolutions: SVGA (800 x 600) through UXGA (1600 x 1200) · HDTV Resolutions (720p, 1080p) · 2048 x 1080p (Digital Cinema format) · Plasma Display Resolutions
Frame Lock Input	NTSC/PAL black burst reference on BNC Connector
Preview analog outputs	RGBHV/RGBS/RGsB, YPbPr video (SD or HD), on 15-pin HD connectors
Preview DVI output	per DDWG 1.0 on DVI-I connector
Program Output 1: Analog	RGBHV/RGBS/RGsB, YPbPr video (SD or HD), on 15-pin HD connectors
Program Output 1: DVI	per DDWG 1.0 on DVI-I connector
Program Output 1: 3G/HD/SD SDI	3G/HD/SD SDI on a BNC connector, supports SMPTE 259 M-C, 292M and 424M standards
Program Output 2: Function	This output can be programmed to serve as a second buffered program output or a monitoring program output
Program Output 2: Analog	RGBHV/RGBS/RGsB, YPbPr video (SD or HD), on 15-pin HD connectors
Program Output 2: DVI	per DDWG 1.0 on DVI-I connector
Output Resolutions	· Computer Resolutions VGA (640 x 480) through UXGA (1600 x 1200) · HDTV Resolutions up to 1920 x 1080 (720p, 1080i, 1080p) · 2048 x 1080 (Digital Cinema format) · Plasma Display Resolutions
Mechanical	3 RU Rackmount Chassis
Power	120-240 VAC -50/60 Hz., Autoselecting 1.0A maximum

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