

# 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**

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

Last updated: 24 Feb 2021

Technical specifications are subject to change without prior notice. Please check [www.barco.com](http://www.barco.com) for the latest information.