

# Encore Presentation System

Modular, scalable presentation system



Barco's basic Encore configuration supports six independent picture-in-picture (PiP) or downstream key images, or three transitioning PiP images. It fully supports seamless transition effects, Z-order control, window borders, drop shadows and a variety of keying effects are fully supported. Each M/E board on the Encore provides two independent scaler channels with universal inputs that handle both analog and digital video sources. The unit accepts almost all relevant video formats for both input and output, and 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, image cropping and real-time window resizing and positioning.

Barco's Encore Video Processor is packaged as a 3RU rack-mount unit, and comes with with one, two or three Mixer/Effect (M/E) boards to meet different application requirements, but can be easily upgraded.

Each M/E board provides two independent Athena scaler channels with universal inputs that handle both analog and digital video sources. The unit accepts an entire range of standard component and composite analog video formats. The Athena scaler 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, image cropping and real-time window resizing and positioning. Seamless transition effects, window borders, drop shadows and a variety of keying effects are fully supported.

The baseline Encore Video Processor configuration is a unit with three M/E boards. It can scale six input sources to generate PiP and/or Key images, which can be sized and positioned at any location on the screen in real-time. Z-order control is used to assign overlay priorities to each PiP or Key image. PiP images can be linked in pairs to support PiP transition effects or displayed independently and transitioned onto the background image. Key images are used to provide a variety of key effects such as superimposing titles on the image or creating special mask effects. Each Encore Video Processor also supports two native resolution background channels to provide a high resolution backdrop for the PiP images. Seamless transitions are also supported on the background image. In addition to six scaled inputs and a transitioning background, the unit supports a high

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# Technical specifications

<b>Mixer/Effects: Analog inputs</b>	RGBHV/RGBS/RGsB computer video, YPbPr video (SD or HD), S-video, or Composite video on 15-pin HD connector
<b>Mixer/Effects: SD/HDSI 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>	<ul style="list-style-type: none"> <li>· NTSC/PAL</li> <li>· Computer Resolutions VGA (640 x 480) through UXGA (1600 x 1200)</li> <li>· HDTV Resolutions up to 1920 x 1080 (720p, 1080i, 1080p)</li> <li>· 2048 x 1080p (Digital Cinema format)</li> <li>· Plasma Display Resolutions</li> </ul>
<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>	<ul style="list-style-type: none"> <li>· Computer Resolutions: SVGA (800 x 600) through UXGA (1600 x 1200)</li> <li>· HDTV Resolutions (720p, 1080p)</li> <li>· 2048 x 1080p (Digital Cinema format)</li> <li>· Plasma Display Resolutions</li> </ul>
<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>	<ul style="list-style-type: none"> <li>· Computer Resolutions: SVGA (800 x 600) through UXGA (1600 x 1200)</li> <li>· HDTV Resolutions (720p, 1080p)</li> <li>· 2048 x 1080p (Digital Cinema format)</li> <li>· Plasma Display Resolutions</li> </ul>
<b>Frame Lock Input</b>	NTSC/PAL black burst reference on BNC Connector
<b>Preview analog outputs</b>	RGBHV/RGBS/RGsB, 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/RGsB, 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/RGsB, 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>	<ul style="list-style-type: none"> <li>· Computer Resolutions VGA (640 x 480) through UXGA (1600 x 1200)</li> <li>· HDTV Resolutions up to 1920 x 1080 (720p, 1080i, 1080p)</li> <li>· 2048 x 1080 (Digital Cinema format)</li> <li>· Plasma Display Resolutions</li> </ul>
<b>Mechanical</b>	3 RU Rackmount Chassis
<b>Power</b>	120-240 VAC - 50/60 Hz., Autoselecting 1.0A maximum