ScreenPRO-II series

High-resolution seamless switcher





The ScreenPRO-II seamless switcher is a high-resolution multi-layer video display system that combines seamless switching with a variety of creative video effects. The result is a versatile presentation tool for both live event staging and fixed installation applications.

To produce its array of effects, ScreenPRO-II uses five image layers: one unscaled background, two scaled inputs (for PIPs or Keys), one unscaled downstream key (DSK), plus a full-screen Logo that uses captured frame grabs as sources. With this creative palette at your fingertips, you can transition backgrounds, transition PIP (Picture-in-Picture) windows, perform wipes, dissolves and keys, fly PIPs and Keys on and off screen, and so much more.

The system's flexibility is remarkable — using the mixer's two scalers, you can mix or key HD-SDI, DVI, and analog source on top of the transitioning background, or display two independent PIPs (or Keys) over a background. In addition, two unscaled high-resolution layers enable you to transition seamlessly between backgrounds, or use a background plus a high-resolution DSK.

With ScreenPRO-II, the term 'seamless' goes far beyond the system's ability to create clean, glitch-free switches between inputs. With a typical single-format switcher (such as an all-SDI system), 'seamless' is easy — because input timing is uniform. However, when multiformat and multi-resolution sources are connected simultaneously, the clean switching challenge arises, and that is precisely where ScreenPRO-II shines.

Whether it's RGB, composite, component, SD-SDI, HD-SDI, DVI or computer resolutions up to WUXGA, ScreenPRO-II's twin Athena scalers enable you to seamlessly cut, wipe, dissolve and move — without restriction.

The EOC card provides an additional output that can be programmed to a different resolution from the Main/Preview outputs. The additional output is provided in the SD/HD/3G/BarcoLink SDI and five-wire formats. The EOC card also enables the DVI inputs to be routed to the scaler channels. Finally, the card includes a memory card for allowing the storage of up to 100 logo stills.



Features

Superior video processing

- Support for input and output resolutions up to WUXGA, including all HD resolutions up to 2,048 x 1,080p
- 10-bit processing, with 1:1 pixel sampling
- Motion adaptive de-interlacing (SD & HD)
- · 3:2 and 2:2 pull down detection
- Image cropping and aspect ratio correction

Inputs

- 2x DVI-D inputs (can be used as PIP sources when the optional EOC is installed)
- 8x analog inputs for video and computer inputs
- · 2x SD/HD-SDI inputs

System capabilities

- Athena proprietary high-performance scaling
- Multiple output synchronization modes: free-run or vertically locked to NTSC/PAL black burst, CSync or HD tri-level sync
- 3RU rack-mount chassis
- Low video delay less than 3 input fields (60ms @ 50Hz, 50ms @ 60Hz)

Channel capabilities

- Two independent PIP windows (scaled), or 1 PIP with seamless transitions within
- Two unscaled high resolution background channels provide video underneath PIPs and Keys. Dissolve or cut between background channels.
- One unscaled high resolution DSK channel, independent of the PIP/Key processing channels

PIP effects

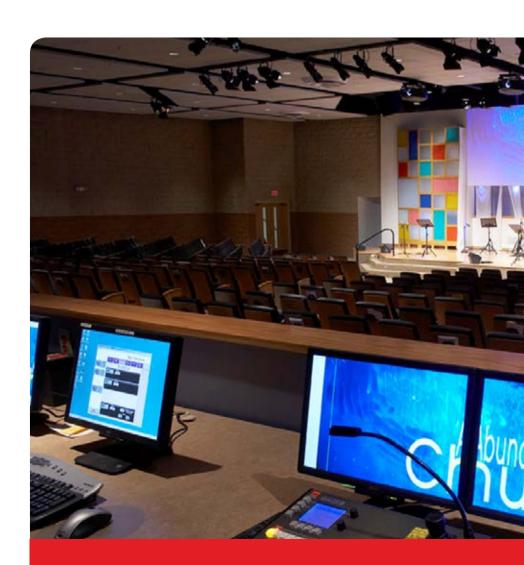
- Full range of transitions, such as cuts, wipes and dissolves
- Smooth PIP moves, on and off screen, with keyframe-controlled sizing and positioning
- · Adjustable PIP aspect ratio
- Adjustable PIP borders, including drop shadows and soft edge

Keying effects

- · Luminance keys
- Invert keys (key source luminance video inverted)
- · Color keys (using absolute luminance values of Red Green and Blue)

Advanced features

- Switchable basic and advanced operating modes
- · Programmable mattes
- Dynamically re-assignable mixer layers: In Mix mode, a mixer's two layers are tied together. In Split mode, the two layers are independent.
- Three internal frame stores are standard, in which you can store three frame grabs. With the optional Enhanced Output Card (EOC) installed, you can store 100 frames. Frame grabs can be used as backgrounds, DSK sources and Logos.
- Z-order control for assigning overlay priorities to PIPs or Keys.
- · Complete lookahead preview



Multi-screen flexibility

Using the optional ScreenPRO-II controller, users can simultaneously (or individually) control up to four ScreenPRO-II switchers from a compact and versatile control surface. With easy setup and intuitive operations, the ScreenPRO-II controller enhances PIP and KEY placement, source switching, and overall layer control.

The ScreenPRO-II controller also includes many features not available on the individual ScreenPRO-II units, including 36 presets, a 3-axis joystick for easy PIP placement, key "cut and fill" mode, and a T-Bar for smooth manual transitions. In addition, a tally option is available for triggering up to eight tallies on cameras (or other devices), and the option also includes a keyboard input for labeling frame grabs.

As the perfect companion to the ScreenPRO-II controller, BlendPRO-II adds blending capability for up to four ScreenPRO-II seamless switchers. This system enables you to create widescreen blends across two, three, or four projectors — complete with data doubling (for the overlapped regions) as well as edge-feathering. The amount of data overlap and edge-feathering are user-programmable via the ScreenPRO-II Controller.

Using the Encore presentation system, one or more standalone ScreenPRO-II units can be controlled as unique 'destinations' within Encore's dynamic event control environment. Three different Encore controllers are available:

- The compact model SC supports 24 inputs, up to 6 destinations, and stores up to 64 presets.
- The flagship model LC supports 64 inputs, up to 32 destinations, and stores up to 900 presets.
- The graphical model GC supports 64 inputs, up to 32 destinations, and stores 160 presets.



ScreenPRO-II controller



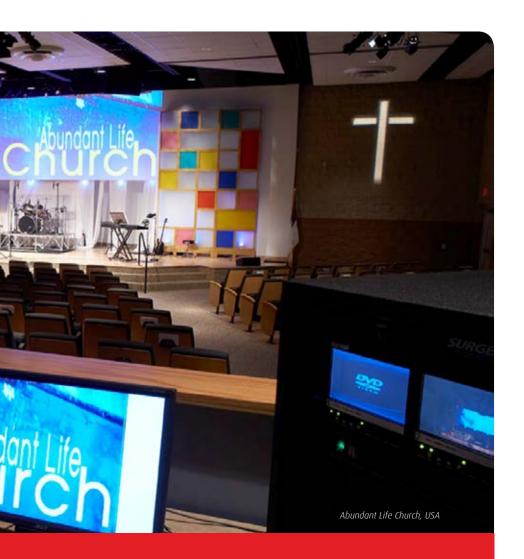
BlendPRO-II



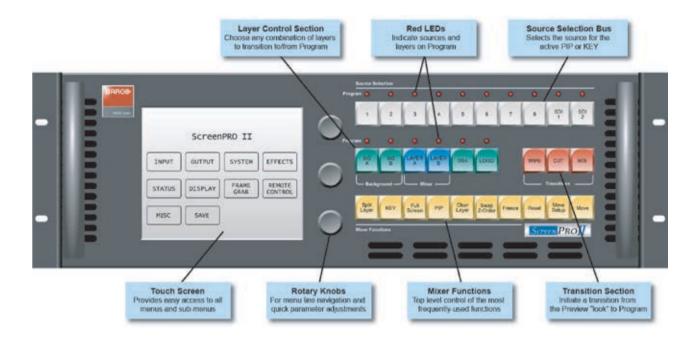
The Encore system controller (SC)



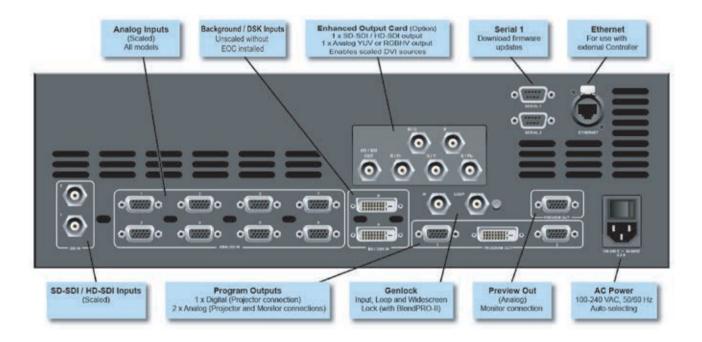
The Encore graphical control (GC)



ScreenPRO-II front panel



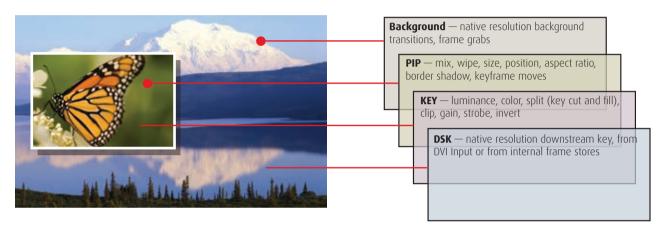
ScreenPRO-II rear panel



Creating effects with ScreenPRO-II

With ScreenPRO-II, creating effects for live events and presentations is easy and intuitive — using the following "layered" building blocks:

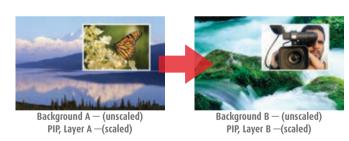
- **Two unscaled transitioning backgrounds**, at the native resolution of your projector. These backgrounds also provide your frame grab sources.
- Two scaled layers, assigned as either **PIPs, Keys**, or one of each. With PIPS, you control the size, position, aspect ratio, border, shadow and more. With Keys, you control the clip, gain, mode (luminance, color, or split), and special effects such as strobe and invert.
- A DSK, at the native resolution of your projector. Use a DVI input as the key source, or use a frame grab from the system's
 internal frame stores.



Examples of ScreenPRO-II's creative transition capabilities

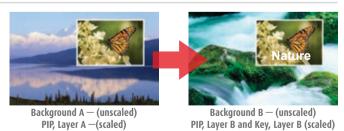
Transitioning inside a PIP

Background A and Layer A (with source 1 inside) transitions to Background B and Layer B (with source 2 inside). Both PIPs are perfectly co-located



Transitioning Keys and Backgrounds

Background A and Layer A transitions to Background B and Layer A (plus a new key from Layer B).



Transitioning a PIP and the DSK

Background A and Layer A transitions to Background B and Layer A (plus a new Layer B PIP and the DSK).



Background A — (unscaled) PIP, Layer A —(scaled)

PIP (A), PIP(B), DSK

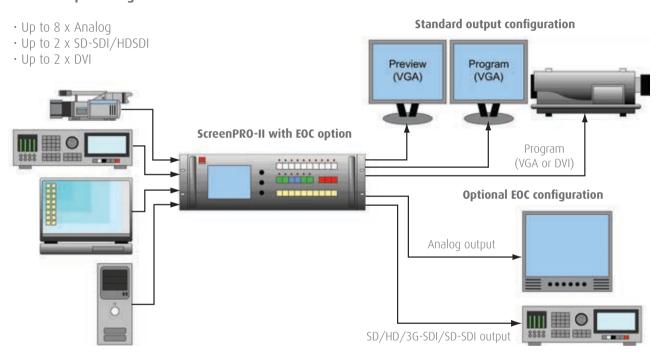
Enhanced Output Card

The **Enhanced Output Card** (EOC):

- Additional output resolution for preview or program
- Enables Scalable DVI inputs
- Expands frame grab capacity to 100 frames
- Supports SD/HD/3G/BarcoLink



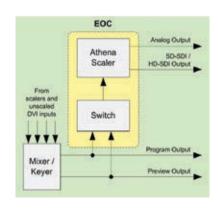
Flexible input configuration



The EOC, which employs a separate Athena scaler for the optimum in image quality, derives its inputs from either the main ScreenPRO-II Program or Preview output. On the EOC connector panel, one BNC is provided for the SD/HD/3G/BarcoLink SDI output, and five BNCs are provided for analog output. Both outputs are active simultaneously — depending on the selected output resolution (see the **specifications** page for a complete list).

The EOC option operates in two different modes:

- In the **primary output mode**, the EOC outputs the selected format at the same resolution as the main Program and Preview outputs, with no delay.
- In the **auxiliary mode**, the EOC outputs a different resolution than the main outputs, with a frame of delay.



BarcoLink

The Barco proprietary BarcoLink technology enables WUXGA (1,920 x 1,200p @ 50/59.94/60 Hz) signals to be transmitted via a single coaxial cable over a distance up to 100 meters. BarcoLink only works between Barco image processing tools and projectors.

Going the distance with

BarcoLink 1920 x 1200 50p/60p



ImagePRO-3G



ImagePRO-II



ScreenPRO-II EOC 3G



FSN-3G



Encore VP 3G



RLM-W8 / RLM-W12



HDX series



HDF series



HDQ-2K40

Why you'll love BarcoLink

- Signal distribution over a BNC coax cable of progressive WUXGA 50/59.94/60 Hz up to 100 meters
- Peace of mind thanks to the robustness of the coaxial cable
- Easily repairable in the field, taking up only a limited amount of time
- Eliminates the need for expensive DVI fiber transmitter/receiver boxes and cables

ScreenPRO-II specifications

input types Analog inputs (8): RGBHV/RGBS/RGBB computer video, YPDPr video (SD or HD), S-video, or Composite video on HD-15 connectors - SUPI-D SUPIDIOU (2): per SMPIE 259M-C (NTSC/PAL resolution) SMPIE 292M (HDTV) on BNC connector - DVF-D inputs (2): scalable with optional EOC installed. Digital DVI per DDWG 1.0 on DVF-I connector - Computer resolutions: VGA (640 x 480) through WUXGA (1920 x 1200) - HDTV resolutions: up to 1920x 1080 (720p. 1080), 1080p) - 2048x1080; (Oigital cinema format) - Frame lock input - WTSC/PAL black burst, CSync or HD tri-level sync - UNSCARLE BACKGROUND / DSK CHANNEL INPUT - Un-scaled background/DSK - Computer resolutions: VGA (640 x 480) through WUXGA (1920 x 1200) - HDTV resolutions: Propressive up to 1920 x 1080 (1880p), RGB colorspace - 2048 x 1080p (Oigital cinema format) - Plasma display resolutions - Output resolutions - Computer resolutions: VGA (640 x 480) through WUXGA (1920 x 1200) - HDTV resolutions outputs) - Plasma display resolutions - Computer resolutions - Computer resolutions - Plasma display resolutions - Computer resolutions - Computer resolutions vGA (640 x 480) through WUXGA (1920 x 1200) - HDTV resolutions - Computer resolutions vGA (640 x 480) through WUXGA (1920 x 1200) - HDTV resolutions vGA (640 x 480) through WUXGA (1920 x 1200) - HDTV resolutions progressive up to 1920 x 1080 (1080p), RGB colorspace - 2048 x 1080p (digital cinema format) - Plasma display resolutions - NTSC (480), PAL (576) - 800 x 600 1202 x 1200 - 1280 x 720p @25, 29.94, 30, 59.94, 60 - 1290 x 1200 y 225, 29.94, 30, 59.94, 60 - 1290 x 1200 y 225, 29.94, 30, 59.94, 60 - 1290 x 1200 y 225, 29.94, 30, 59.94, 60 - 1290 x 1200 y 225, 29.94, 30, 59.94, 60 - 1290 x 1200 y 225, 29.94, 30, 59.94, 60 - 1290 x 1200 y 225, 29.94, 30, 59.94, 60 - 1290 x 1200 y 225, 29.94, 30, 59.94, 60 - 1290 x 1200 y 225, 29.94, 30, 59.94, 60 - 1290 x 1200 y 225, 29.94, 30, 59.94, 60 - 1290 x 1200 y		
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OUTPUTS Analog outputs RGBHV/RGBS/RGSB (non-interlaced) on HD-15 connectors (Preview and two Program monitor/projector outputs) and 5 BNC analog connectors on the EOC card Digital output Digital DVI per DDWG 1.0 on DVI-I connector (one Program output) Output resolutions - Computer resolutions: VGA (640 x 480) through WUXGA (1920 x 1200) - HDTV resolutions: progressive up to 1920 x 1080 (1080p), RGB colorspace - 2048 x 1080p (digital cinema format) - Plasma display resolutions (optional) - NTSC (4801), PAL (5761) - 800 x 600, 1024 x 768, 1280 x 1024, 1600 x 1200, 1920 x1200 - 1280 x 720p @25, 29.94, 30, 59.94, 60 - 1920 x 1080p @25, 29.94, 30, 59.94, 60 - 1920 x 1080p @25, 29.94, 30, 59.94, 60 - 1920 x 1200p @25, 29.94, 30, 59.94, 60 - 1920 x 1200p @25, 29.94, 30, 59.94, 60 - 1920 x 1080p @25, 29.9	Background/DSK input resolutions	
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Output resolutions - Computer resolutions: VGA (640 x 480) through WUXGA (1920 x 1200) - HDTV resolutions: progressive up to 1920 x 1080 (1080p), RGB colorspace - 2048 x 1080p (digital cinema format) - Plasma display resolutions Optional - NTSC (480i), PAL (576i) - 800 x 600, 1024 x 768, 1280 x 1024, 1600 x 1200, 1920 x1200 - 1280 x 720p @25, 29.94, 30, 59.94, 60 - 1920 x 1080i @50, 59.94, 60 - 1920 x 1080p @25, 29.94, 30, 59.94, 60 - 1920 x 1200p @25, 29.94, 30, 59.94, 60 - 1920 x 1200p @25, 29.94, 30, 59.94, 60 - 1920 x 1080p @25, 29.94, 30, 59.94, 60 - 1920	Analog outputs	RGBHV/RGBS/RGsB (non-interlaced) on HD-15 connectors (Preview and two Program monitor/projector outputs) and 5 BNC analog connectors on the EOC card
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USER CONTROL Front panel control Intuitive front panel user interface incorporates lighted push buttons and LCD touchscreen. Control functions common with the Encore presentation system. Remote control The unit may be controlled from a computer or external controller via LAN or an RS-232 serial link Control functions include: Source input configuration Output format selection Test pattern selection Video source selection for PIPs or Keys Transition effect selection and control Video effect selection (PIP size/position, Keying, Borders, etc.) PHYSICAL / ELECTRICAL Mechanical 3 RU rackmount chassis H: 5.25 inches (13.34 cm), W: 17.00 inches (43.18 cm), D: 15.00 inches (38.10 cm) Weight: 22 lbs (9.98 kg)	EOC output resolutions (optional)	 800 x 600, 1024 x 768, 1280 x 1024, 1600 x 1200, 1920 x1200 1280 x 720p @25, 29.94, 30, 59.94, 60 1920 x 1080i @50, 59.94, 60 1920 x 1080p @25, 29.94, 30, 59.94, 60
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Remote control The unit may be controlled from a computer or external controller via LAN or an RS-232 serial link Control functions include: Source input configuration Output format selection Test pattern selection Video source selection for PIPs or Keys Transition effect selection and control Video effect selection (PIP size/position, Keying, Borders, etc.) PHYSICAL / ELECTRICAL Mechanical 3 RU rackmount chassis H: 5.25 inches (13.34 cm), W: 17.00 inches (43.18 cm), D: 15.00 inches (38.10 cm) Weight: 22 lbs (9.98 kg)	Front panel control	
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• Transition effect selection and control • Video effect selection (PIP size/position, Keying, Borders, etc.) PHYSICAL / ELECTRICAL Mechanical • 3 RU rackmount chassis • H: 5.25 inches (13.34 cm), W: 17.00 inches (43.18 cm), D: 15.00 inches (38.10 cm) • Weight: 22 lbs (9.98 kg)	Control functions include:	 Source input configuration Output format selection Test pattern selection
Mechanical • 3 RU rackmount chassis • H: 5.25 inches (13.34 cm), W: 17.00 inches (43.18 cm), D: 15.00 inches (38.10 cm) • Weight: 22 lbs (9.98 kg)		Transition effect selection and control
• H: 5.25 inches (13.34 cm), W: 17.00 inches (43.18 cm), D: 15.00 inches (38.10 cm) • Weight: 22 lbs (9.98 kg)	PHYSICAL / ELECTRICAL	
	· · · · · · · · · · · · · · · · · · ·	• H: 5.25 inches (13.34 cm), W: 17.00 inches (43.18 cm), D: 15.00 inches (38.10 cm)
	Power	100-240 VAC - 50/60 Hz, auto-selecting, 1.0A maximum

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