

ScreenPRO



High-Resolution Seamless Switcher

Description

ScreenPro™ is ideal for use whenever multiple video sources must be seamlessly switched to provide a professional quality presentation. ScreenPro is designed for live staging events, auditoriums, multimedia presentations, educational and training events.

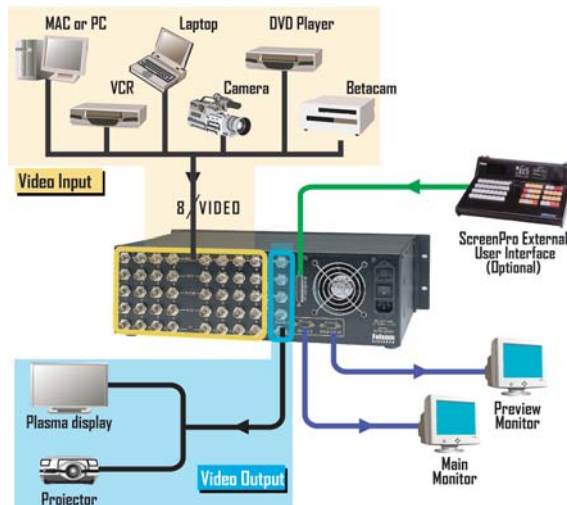
ScreenPro™ features eight universal inputs that accept composite video (NTSC/PAL), s-video, component, HDTV, and computer video sources (640x480 VGA to 1600x1200 UXGA). Folsom's Auto Signal Lock (ASL™) technology automatically locks to the selected source and scales it to match the native resolution or "sweet spot" of the projection or display device. The operator can transition seamlessly between different sources.

ScreenPro™ supports two video outputs, Main and Preview. A variety of transition effects including dissolves, wipes, cuts, curtain open/close, grids, and fades with variable transition rates are supported. Picture-in-Picture and Keying are provided to support unique presentation effects. User-defined configuration files can be created, stored, recalled and edited. ScreenPro also has the ability to store a series of up to 64 pre-programmed transition steps. This allows a complete show to be programmed in advance and executed by actuating a single key.

Multiple Screen User Interface (Optional)

Up to 6-screen control is available using multiple ScreenPro High Resolution Seamless Switchers and the FC-0608 controller. All ScreenPro functions (including system set-up) are supported via the FC-0608. The multi-screen controller is equipped with easy to use menus, t-bar transition control and joystick for intuitive adjustments. Set-up and operation is a breeze.

ScreenPRO™ Connectivity Diagram



Typical Operation

The operator selects a video via ScreenPro's user-friendly front panel interface. The selected video is automatically scaled to match the projector's native resolution and displayed on the Preview monitor. Size, position, contrast, brightness and color balance parameters corresponding to the selected input source are automatically restored from a setup file. If required, the operator can adjust any of these parameters before transitioning the video to the Main output. Once any image adjustments are complete, the operator selects the type of transition (cut, dissolve or wipe) by pressing the corresponding transition effects key. The video is seamlessly transitioned onto the Main screen. No projector glitches, no black screen, no artifacts. The operator repeats the sequence of selecting sources and transition effects to complete the entire presentation.

Features

- Eight universal inputs accept composite (NTSC/PAL), s-video, component, and computer video sources with resolutions up to 1600x1200. HDTV 480p, 720p, and 1080i formats are supported in RGB colorspace
- Folsom's Auto Signal Lock (ASL™) technology automatically locks to the selected source and scales it to match the native resolution or "sweet spot" of the projection or display device
- Professional quality transition effects include cuts, fades, dissolves, curtain open/close, grids, and wipes with programmable transition rates are supported.
- High-performance dual-scaler architecture supports truly seamless switching
- Stores pre-programmed sequences (up to 64 steps) to support scripting of shows
- Picture-in-Picture and Keying are supported
- User programmable output formats (VGA, SVGA, XGA, SXGA), plasma displays, and HDTV (480p and 720p)
- Dual program output
- Reconfigurable RS-232/485 port for remote control
- Motion adaptive de-interlacing
- Six test patterns for projector set-up
- Optional multi-screen event controller for control of up to 6 screens
- Free 24-hour technical support
- Backed by a full 3-year parts and labor warranty

Video Input

Universal A/V Inputs: (8) high bandwidth video channels
High-Resolution Video: Supports conversion of RGB videos with horizontal scan rates up to 100 KHz and resolutions up to 1600x1200. HDTV 480p, 720p, and 1080i formats are supported in RGB colorspace. Input levels are independently programmable.

Standard Video: Accepts RGB, Y Pb Pr, S-Video (Y/C), or NTSC/PAL video formats. Input levels are independently programmable for RGB and Y Pb Pr sources. Programmable luminance and chrominance levels are provided for S-Video, and Hue and Saturation controls are provided for NTSC/PAL inputs.

Synchronization: The unit automatically locks to the incoming video source.

Input Sync Signals: Sync-on-Video; Separate C or H/V
Connectors: BNC

Video Output

High-Resolution RGB Video: User programmable output formats; VGA (640x480), SVGA (800x600), XGA (1024x768), SXGA (1280x1024), For plasma displays, 832x624, 848x480, 852x480, 1280x768, 1365x768, 1365x1024. Also provides HDTV 480p and 720p output rates.

Main Outputs: Two independently buffered channels: (1) RGBHV with five BNC connectors; (1) RGBHV with HD-15 connector.

Preview Output: (1) RGBHV with HD-15 connector
Output Sync Type: Separate C or H/V

Mixing and Transition Effects

The unit supports seamless switching between sources, including the following transition effects: cut, dissolve, wipe. Transition times and wipe direction are fully programmable.
Picture-in-Picture: Supports display of two independently scaled windows.

Luminance Keying: Supports image overlay features with user-adjustable luminance key levels

User Controls

Source Selection: (9) illuminated keys support selection of 8 video inputs or black screen

Transition Effects: (3) illuminated keys: wipe, dissolve, and cut

Program Keys: (5) illuminated keys support generation, storage, recall, and editing of preprogrammed control sequences.

Freeze Key: A single illuminated key used to freeze the image on the main output.

Set-up Controls: Electro-luminescent display, control knob, and 8 keys provide a menu-based front panel interface to simplify set-up.

Remote Control

Reconfigurable RS-232/485 port for real-time control; Optional external Ethernet (with TCP/IP and FTP) supports advanced real-time control.

Physical

Height: 5.25" (13.3 cm); Width: 17" (43.2 cm) or 19" (48.3 cm) with rear rack-mount option; Depth: 13" (33 cm); Weight: 22 lbs (10 kg); Shipping Weight: 30 lbs (13.6 kg).

Input Power

47-250 VAC, 50-60 Hz, 175 W max.

Environmental

Temperature: 0-40 degrees C; Humidity: 0-95% noncondensing.

Warranty

All video products are designed and tested to the highest quality standards and are backed by a full three-year parts and labor warranty.



About Folsom Research

Folsom Research, Inc., has been designing and marketing specialized scan converter and image processing products since 1979. These products are used in computer graphics, broadcast, presentation, medical, radar, government, and military applications. We are continually expanding our product lines to meet the needs of our customers.

Engineering support and custom design services are provided by our experienced design staff. We commonly modify existing products or provide custom designs to satisfy unique application requirements. For further information on our products or engineering services, please contact us by one of the means listed below.

More Information

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