

# ScreenPRO

High-Resolution Seamless Switcher



## Description

ScreenPro™ is a compact, reliable system that simplifies the task of supporting professional-quality video presentations. The unit combines a video router, two video scalers and a full-featured control panel in a single integrated package. ScreenPro's eight universal inputs accept composite video, s-video, component and computer video sources (640x480 VGA to 1600x1200 UXGA). The input video is converted directly to the native resolution or "sweet spot" of the projection device to optimize image quality. The operator can transition seamlessly between the eight different high-resolution video sources.

ScreenPro supports two video outputs, Main and Preview. The presentation viewed by the audience is provided via the Main output. The Preview output is provided to allow the operator to examine the next video source to be displayed.

The ScreenPro user interface has been designed with intuitive, user-friendly menus to simplify system setup and adjustment. 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 only a single key.

## Applications

The ScreenPro is ideal for use whenever multiple video sources must be switched to provide a professional quality presentation. Typical applications include live staging events, corporate boardroom presentations, educational and training events.

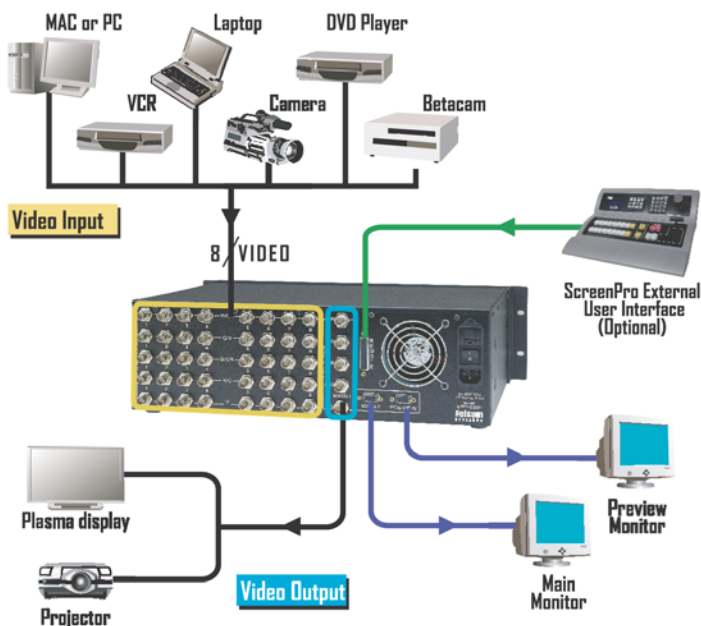
## Typical Operation

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 high-resolution inputs accommodate composite (NTSC), s-video, component, and computer video sources
- High bandwidth (five wire) 8:2 video router
- Automatically syncs to input videos with resolutions from 640x480 to 1600x1200
- High-performance dual-scaler architecture supports seamless switching
- Transition effects include cuts, fades, dissolves, and wipes (transition duration is programmable)
- Superior image quality
- Intuitive user interface simplifies setup
- Reconfigurable RS-232/485 port for remote control
- Motion adaptive de-interlacing
- User programmable output format (VGA, SVGA, XGA, SXGA)
- Stores pre-programmed sequences (up to 64 steps) to support scripting of shows
- Free 24 hour technical support
- Keying
- Picture-in-Picture
- External Interface Available, please call for details

## ScreenPRO™ Connectivity Diagram



# specifications

## Video Input

Universal A/V Input (8) high bandwidth video channel High-Resolution Video Supports conversion of RGB videos with horizontal scan rates 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 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 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 source including the following transition effects: cut, dissolve, Transition times and wipe direction are fully programmable. Picture-in-Picture Supports display of two independently scaled windows.

Luminance Key Supports image overlay features with user adjustable luminance key level

## User Controls

Source Select (9) illuminated keys support selection of 8 video inputs on the backscreen

Transition Effect (3) illuminated keys: wipe, dissolve, cut

Program Key (5) illuminated keys support generation, storage, recall, and editing of preprogrammed input sequences

Freeze Key A single illuminated key used to freeze input on the main output

Set-up Control Electro-luminescent display, control keys 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 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 rack-mount option; Depth: 13" (33 cm); Weight: 22 lbs (10.0 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: 5% noncondensing

## Warranty

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



## About Folsom Research

Folsom Research, Inc., has been designing and manufacturing specialized scan converter and image processing products since 1985. Our products are used in computer graphics, broadcast, aviation, medical, radar, government, and military applications. We are continually expanding our product lines to meet the needs of our customers.

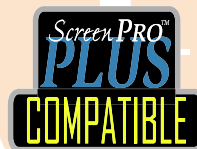
Engineering support and custom design services are provided by our experienced design staff. We commonly modify existing products to provide custom designs to satisfy unique application requirements. For further information on our products or engineering services, please contact us by one of the means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

## More Information

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ScreenPro™ Rear Panel