

ScreenPRO-II series

Multi-layer video display system



ScreenPRO-II uses four image layers (unscaled background, up to two scaled PiPs or keys, and an unscaled downstream key) to produce sophisticated effects, including live transitioning backgrounds, transitioning PiP windows, wipes, dissolves and keys.

An internal 8x2 analog video router provides universal analog sources to each scaler channel. Barco's ScreenPRO-II features a low video processing delay of three input fields maximum.

With the EOC, the ScreenPRO-II can use the DVI background channels as inputs to the scaler channels, adds HD-SDI and interlaced output for recording, and can have storage for 100 logo stills.

Full flexibility

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.

Truly seamless

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 multi-format and multi-resolution sources are connected simultaneously, the clean switching challenge arises, and that is precisely where ScreenPRO-II shines.

BARCO

Visibly yours

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Enhanced Output Card (EOC)

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 on the SD/HD/3G/BarcoLink and five-wire formats. The EOC card also enables the DVI inputs to be routed to the scaler channels. Finally, the EOC includes a memory card allowing the storage of up to 100 logo stills.

Technical specifications

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Inputs	
Scaled Channel Inputs	<ul style="list-style-type: none">· Analog inputs (8) - RGBHV/RGBS/RGB computer video, YPbPr video (SD or HD), S-video or Composite video on 15-pin HD connector· Sd and HDSi input (2-optional) - per SMPTE 259M-C (NTSC/PAL resolution) SMPTE 292M (HDTV) on BNC connector
Outputs	
Analog Outputs	RGBHV/RGBS/RGB (non-interlaced only) on 15-pin HD connectors (preview and two program monitor/projector outputs)
User control	
Front Panel Control	LCD touch screen display, keyboard circuitry, rotary encoders and LED lighted push buttons
Remote Control	The unit may be controlled from a computer or external controller via LAN or an RS-232 serial link. Control options include: <ul style="list-style-type: none">· source input configuration· output format selection· test pattern selection· Video source selection for PIPs or keys· transition effect selection and control
Inputs	
Scaler Input Resolutions	<ul style="list-style-type: none">· 480i· 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
Un-Scaled Background/DSK Channel Inputs	DVI Inputs (2) -Digital DVI per DDWG 1.0 on DVI-I connector
Background/DSK Input Resolutions	<ul style="list-style-type: none">· Computer Resolutions VGA (640x480) through UXGA (1600 x 1200)· HDTV Resolutions, progressive up to 1920 x 1080(1080p)· 2048 x 1080p (Digital Cinema format)· Plasma Display Resolutions
Outputs	
Digital Outputs	Digital DVI per DDWG 1.0 on DVI-I connector (Program Output)
Output Resolutions	<ul style="list-style-type: none">· Computer Resolutions SVGA (640x480) through UXGA (1600 x 1200)· HDTV Resolutions, progressive up to 1920 x 1080(1080p)· 2048 x 1080p (Digital Cinema format)· Plasma Display Resolutions