

PremierViewPro-LED

SD Image Scaler for LED Video Walls

PremierViewPro-LED features first class image scaling and de-interlace quality for LED video walls. Video image stability and motion performance is excellent with per-pixel motion adaptive video processing and flicker reduction based around the award-winning Faroudja DCDi de-interlacer and video enhancement processor with 3:2 & 2:2 film mode pull-down correction and diagonally correlated de-interlace.

Standard Definition video uses a high performance decoder with active comb filter and 2x oversampling for excellent video image clarity. It accepts component video YPbPr and RGB color space as well as two Composite inputs and one S-Video input. SDI SMPTE259M digital video is also supported.

Computer graphics inputs are accepted in RGBHV/VGA analog and DVI digital formats. Color temperature and gamma correction functions feature 10-bit per color processing to alleviate gray-scale contouring, improving image rendition.

Output image sizing is very easily controlled for quick and simple configuration to drive any LED screen from 192x144 through to 1280x1024 active image size, using the jog wheel to move each edge of the image so as to suit the size of the LED screen. Minimum image size is typically 30% of the chosen output mode in each axis.

Zoom, pan and Tilt functions are also available to display a particular area of interest and operate independently of the LED screen sizing function.

Processing modes include Genlock for in-camera use and for video modes I/O Track where the output rate automatically switches between 59.94Hz and 50Hz to suit the input mode. Free run mode supports frame rate conversion to a fixed 59.94Hz frame rate for driving basic LED screens which are not 50Hz-compatible.



- Flexible active image area
- Best in class scaling
- Superior video de-interlacing and flicker reduction
- Excellent motion reproduction
- High performance video decoder
- Programmable 10-bit color and gamma control
- Simultaneous analog and DVI outputs
- Genlock

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- For broadcast use Genlock capability is provided. With the Genlock function enabled PremierViewPro-LED will maintain frame lock with a 525i or 625i bi-level sync or black & burst applied to the sync input of the YPbPr/RGBS channel.
 - Outputs are available in VGA analog and DVI digital formats which are useable simultaneously so that one output can drive the LED screen while the other runs a local monitor for applications where the LED screen is not visible from where the scaler is situated.
 - System control is via a front-panel LCD menu controlled via an easy to use jog-wheel or through an easy to use PC app connected via an RS232 serial port.

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Inputs

2x Composite Video CVBS via BNCs
 1x YC/S-Video via 4-pin miniDIN
 Supported CVBS/YC formats: PAL, NTSC & SECAM with automatic standards detection
 1x Component video YPbPr or RGBS via 3/4 BNCs
 1x SDI serial digital component video SMPTE259M-C via single BNC
 Supported formats: 625i 50Hz (PAL timings) and 525i 59.94Hz (NTSC timings) with automatic standards detection
 1x SVGA analog, 640x480 to 1280x1024 via 15HDD
 1x DVI digital non-HDCP, 640x480 to 1280x1024 via DVI-D connector. *NB: This model does not support HD or HDCP, for HD or HDCP applications use PVProHD-LED*

Graphics inputs feature automatic image optimization capability as well as user-controllable configuration

Genlock

Vertical lock to 525i or 625i bi-level sync or black & burst via sync input of YPbPr/RGBS channel

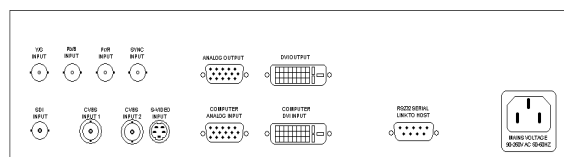
Outputs

1x SVGA analog via 15HDD connector
 1x DVI digital via VESA DVI-I connector
 Analog and digital outputs can be used to simultaneously show the output image on a local monitor and LED screen

Display Modes

Output resolution user selectable from VGA 640x480, SVGA 800x600, XGA 1024x768, SXGA 1280x1024 or user-programmable custom formats.

Built in test patterns.



User Controls

Front panel controls using jog-wheel and easily readable 40x4 backlit LCD display.
 RS232 serial control via PC software application for WinXP

Controls – Video inputs

Contrast, Black level, Saturation, Hue (NTSC only), Input Image Crop, Pan, Zoom & Tilt, Video I/O lock on/off, Sharpness (not SDI).

Controls – Graphics inputs

Contrast, Black level, Input Image Crop, Pan, Zoom & Tilt, VGA only - Clock and Phase adjust, Auto Image Optimization.

Controls – Image Processing

Output image format – VGA, SVGA, XGA, SXGA or user definable format (video i/o lock only available for factory defined formats). Pre-programmed custom output formats available to special order.

Output Active Window Size – very easy to use left/right/top/bottom drag and drop edge adjustment controls automatically optimize scaler and control image position as each edge is dragged to its correct position on the LED screen using the jog wheel.

Scaler Horizontal & Vertical Sharpening for use when zooming

Image Pan Zoom & Tilt controls with a huge adjustable range.

Color Temperature correction to pre-defined standards or user programmable calibration settings. Can also be bypassed for LED screens with inbuilt color correction.

Gamma Correction to user selectable setting. Can also be bypassed for LED screens with inbuilt gamma correction.

Black Crush function to remove black level noise on LED screens without reducing peak-white intensity.

Power

100-240VAC at approx. 50W. Power inlet via standard IEC connector. PremierViewPro-LED is fan-cooled from the rear and sides using a long-life fan for reliable operation when installed in an equipment rack.

Mounting Information

Extremely rugged, professional 19" (2U) Rack case with carrying handles. Case colour : Black

Warranty

3-year return to base warranty covers parts and labour, shipping excluded.

Product Code

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