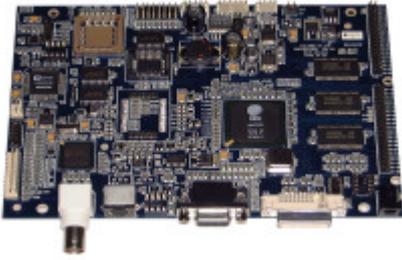


PremierView4

Very High Performance Flat-Panel Display Driver Board



Calibre specialises in high performance LCD display solutions with flexible signal capability, excellent motion reproduction and accurate, artifact free image re-sizing.

PremierView4 extends the capabilities and compatibility of the well established PremierView range, adding automatic image optimisation for computer RGB signals, even further improved scaling and a new compact board footprint as well as compatibility with many previously unsupported image sources and panels.

PremierView4 has many new optional features including image reversal left/right & up/down, SDI digital component video input, DVI digital RGB input, analogue component video RGB or YUV input, real-time field-locked processing for best motion performance or frame rate conversion for compatibility with fixed frequency panels and aspect ratio conversion for widescreen LCD panels.

PremierView4 is one of the most flexible LCD systems on the market able to accept a wide range of input resolutions. PremierView4 features autoscanning real-time software algorithms to allow it to be adjusted to suit most non-standard resolutions and signal timings within its resolution, line and field rate ranges. Compatibility with non-standard signal timings and custom resolutions can also be provided as a customer specific option. PremierView4 gives excellent colour depth and accurate grey-scale reproduction, with no field merging, pixel or line dropping to ensure accurate motion reproduction and best in class clean image scaling. Most panels are driven field locked to the input signal with dynamic timing control for best possible motion performance. When frame rate conversion required to drive fixed-frequency panels video images are double buffered to eliminate motion tear.

Through the standard VGA connector, composite sync and sync on green from high resolution sources such as workstations are also supported. A DVI digital graphics input is available as an optional extra. A special slow-scan version of PremierView4 is available for compatibility with signals from legacy industrial, military and control systems. Compatibility includes interlaced sources, 15KHz RGB sources and RGB signals with sync serrations, equalisation pulses and missing line syncs during field sync, as is typical of many old graphics generators.

A professional grade video decoder is available as an option which gives outstanding composite and YC video performance through the use of a 4-line adaptive comb filter and vertical noise reduction algorithm. This option also adds a selectable RGB/YUV component video input and an automatically enabled monochrome mode for use with hi-res monochrome and thermal imaging cameras. SDI serial digital video with PAL or NTSC timings is also available as an additional option. A lower cost standard grade video decoder is also available for less demanding applications.

High performance scaling algorithms work without compromising image quality. PremierView4 is compatible with Composite and Y/C (SVHS, S-video) inputs with automatic detection of PAL, NTSC & SECAM video, and/or most computer RGB signals from 640x350 up to 1600x1200. Very flexible wide-ranging picture controls are provided via an on-screen menu. These controls include picture size/position controls as well as contrast, brightness, and colour/hue for video.

Features

- PAL, NTSC, SECAM Composite or YC and optionally component RGB/YUV/SDI
- RGBHV (VGA style), RGBS and RGsB (sync on green)
- 640x350 up to one resolution step above the actual panel resolution, max 1600x1200@75Hz
- Non-standard image sizes catered for via flexible picture height and width controls
- Optional DVI digital RGB input
- Optional slow-scan model for LCD compatibility with legacy & interlaced systems

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