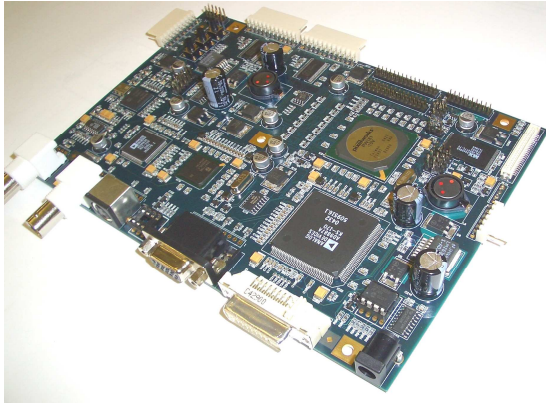


# PremierView5

## Professional HDTV Compatible 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.

PremierView5 is the next step up from Calibre's very well established PremierView4, widely recognised as the market leader for specialist and high-performance display requirements in applications such as medical, broadcast, military, aerospace and specialist industrial displays.

PremierView5 provides best in class flexibility and excellent image performance for demanding display applications. It supports a wide range of standard definition and high definition video formats as well as computer graphics signals. Models are available with support for HDTV in HDSI digital format as well as YPbPr analog format. PremierView5 provides excellent image processing, accurate colour space conversion and clean image scaling for optimal picture quality. It features motion adaptive de-interlace for standard definition video signals to minimize interlace flicker while maximizing motion performance. PremierView5 uses real-time field-locked image processing for best motion performance or frame rate conversion for compatibility with fixed frequency panels and aspect ratio conversion for widescreen LCD panels.

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. A special slow-scan version of PremierView5 is available for compatibility with signals from legacy industrial, military and control systems. Custom-compatibility can be provided for 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 used which gives outstanding composite and YC video performance through the use of a 4-line adaptive comb filter and vertical noise reduction algorithm. This also provides a selectable RGB/YUV standard-definition component video input and an automatically enabled monochrome mode for use with hi-res monochrome and thermal imaging cameras. Additionally, the component video input optionally supports EDTV & HDTV YPbPr modes.

HD-SDI YCbCr serial digital video is a further option, compatible with 484i, 576i, 720p, 1035i, 1080psf, 1080i up to 60Hz field rate and also 1080p modes up to 30Hz field rate.

### Key Features

- PAL, NTSC, SECAM Composite or YC
- YPbPr & RGB(S) Component Video in SD 484i and 576i formats
- YPbPr/RGB Component Video in ED 480p and 576p, HD 720p, 1035i, 1080i & 1080p formats
- SDI and HD-SDI YCbCr digital component video
- Per-Input Aspect Ratio Control
- Motion Adaptive temporal de-interlacing with integrated film-mode detection with inverse 3:2 pull-down
- Advanced Spatial Noise Reduction for Progressive Scan Video modes
- Automatic Colour Space Conversion Selection
- Per-Input Colour Temperature Control
  
- DVI digital RGB input
- RGBHV (VGA style), RGBS and RGSB (sync on green) from 640x350 to 1600x1200
- Non-standard image sizes catered for via flexible picture height and width controls
- Optional slow-scan model for LCD compatibility with legacy & interlaced systems
- Fast Automatic Image Optimization
  
- Picture In Picture supports Video window over Graphics and Graphics window over Video
  
- Models compatible with panels from 640x480 up to 1920x1200
- Optional on-board LVDS drivers for reduced cost

## PremierView5 Features

## Available Models

	PV5-502	PV5-505	PV5-520	PV5-521
SVGA Analog & DVI Digital Inputs	•	•	•	•
CVBS (Composite), YC (S-Video), YPbPr/RGB(s) SDTV, supports 484i (525i) & 576i (625i)		•	•	•
Automatic standards detection of PAL, NTSC & SECAM		•	•	•
HDTV & EDTV YPbPr/RGB Analog, Supports 480p, 576p, 720p, 1035i, 1080i & 1080psf & 1080p			•	•
HD-SDI for YCbCr SDTV & HDTV, Supports 484i, 576i, 720p, 1080i, 1080psf & 1080p				•
Aspect Ratio Control		•	•	•
OSD-based Colour Temperature Control with separate settings for each input	•	•	•	•
OSD-based Control of Backlight Inverter Brightness	•	•	•	•
12VDC Power via 2.5mm Barrel Jack	•	•	•	•
12VDC Output to Backlight Inverter	•	•	•	•
Compatible with 3V3, 5V & 12V LCD Panels	•	•	•	•
Compatible with 6-bit or 8-bit per Colour per Pixel Panels	•	•	•	•
Single or Dual Port LVTTTL (digital) Panel Outputs	•	•	•	•
Single or Dual Port LVDS Panel Outputs	Optional	Optional	Optional	Optional
Compatible with 640x480, 852x480, 800x600, 1024x768, 1280x720, 1280x768, 1280x1024, 1366x720, 1920x1080, 1920x1200 resolution LCD panels	Model Specific	Model Specific	Model Specific	Model Specific

Calibre UK Ltd  
 Cornwall House,  
 Cornwall Terrace,  
 Bradford, West Yorkshire  
 BD8 7JS, England

Tel +44 (0)1274 394125  
 Fax +44 (0)1274 730960  
 E-mail [sales@calibreuk.com](mailto:sales@calibreuk.com)  
 Web-site [www.calibreuk.com](http://www.calibreuk.com)

