

## SVH-1920v2 HD LCD Controller Board

### Key Features :

- > 10 bit color
- > Updated LVDS connectors
- > eDP panel support
- > 18 PiP options
- > Ceramic capacitors
- > DVI, VGA, Video

The SVX-1920v2 is a fully buffered multi-sync interface controller for providing analog and digital connection for a wide range of TFT LCD panels up to 1920x1200 resolution. Featuring full screen image expansion of lower resolutions, image flip and invert functions and onscreen PIP functions, the SVH-1920v2 also supports an optional High-Definition Serial Digital Interface ( HD-SDI ) adaptor for professional and broadcast video applications.

### Panel Connectivity

1920 x 1200	1366 x 768	800 x 480
1920 x 1080	1280 x 1024	800 x 600
1680 x 1050	1280 x 800	640 x 480
1600 x 1200	1280 x 768	
1440 x 900	1024 x 768	

### Input

<b>Analog RGB:</b>	60Hz up to 1920x1200 75Hz up to 1280x1024 With auto detect of Digital Separate Sync, Sync-On-Green & Composite Sync, Auto Detects VGA, WUXGA interlaced & non-interlaced
<b>DVI-D:</b>	60Hz up to 1920x1200 75Hz up to 1280x1024
<b>Video:</b>	NTSC / PAL / SECAM ( interlaced ) Composite Video S-video HD / SD Component

### Options

HD-SDI Daughter board, IR Remote, 2W per channel stereo Audio Amplifier

### Reliability

Calculated Mean Time Between Failures - In excess of 100,000 hours  
Warranty: 3 years

### Features

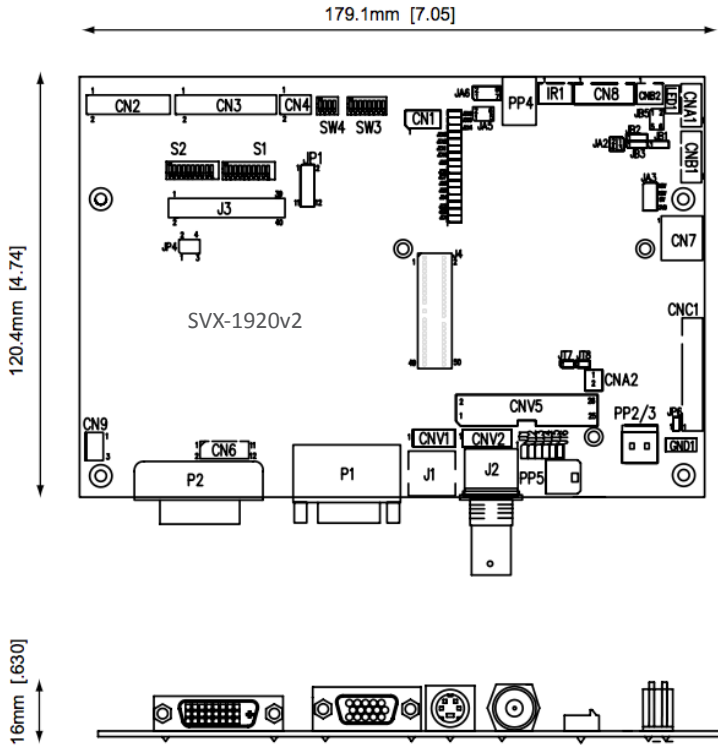
<b>Colors:</b>	Up to 10 bit per color, ie 1.06 billion colors
<b>Functions :</b>	On Screen Display (OSD) menu
<b>Function Controls:</b>	External buttons, Infra-Red controls, Serial Port control
<b>Image Scaling :</b>	Up / Down scaling to fit input to panel resolution
<b>Image Control :</b>	Auto configuration, Brightness, Contrast, Clock, Phase, Color Temperature, Image position, Hue, Saturation, Gamma
<b>Other Features :</b>	System Information, OSD position, Scaling to fill screen and fill to aspect ratio, OSD timeout, Factory Reset, OSD menu transparency, Horizontal & Vertical image inversion, Picture in Picture - variable position, any input combination ( 18 sizes ), Picture by Picture, Programmable hot keys, Serial port protocol, Ambient light sensor
<b>Power:</b>	+12VDC / +24VDC ±5%, 10W (controller only)
<b>Panel Power:</b>	Supports 3.3V, 5V, 12V & 18V panels
<b>Panel Signal:</b>	Dual channel LVDS support eDP
<b>Inverter Support:</b>	DPMS Enable pin (3.3V or 5V)
<b>Plug &amp; Play:</b>	DDC 1,2/b compatible
<b>Status Indicator:</b>	Dual color LED support

\*Specifications subject to change

# SVH-1920v2

## HD LCD Controller Board

### Mechanical Drawing



### Connector Definitions

<b>CN1</b>	Second RS-232 serial control
<b>CN6</b>	Input connector
<b>CN7</b>	Audio board connector
<b>CN8</b>	RS-232 Serial Control
<b>CN9</b>	Ambient Light Sensor Connector
<b>CN11</b>	SPDIF Audio Output
<b>CNA1</b>	Auxiliary Power Output
<b>CNA2</b>	Auxiliary +5VDC
<b>CNB1</b>	Backlight inverter
<b>CNB2</b>	Backlight Status Input Connector
<b>CNC1</b>	OSD Control
<b>CNV1</b>	Alternate video in
<b>CNV2</b>	HD/SD Component video in
<b>CNV5</b>	Auxiliary video input S-video 1&2 composite 1&2
<b>CP3</b>	Reserved for internal programming
<b>J1</b>	S-video 1 in
<b>J2</b>	Composite video 1 in
<b>J3</b>	Panel signal for LVDS panel
<b>J4</b>	HD-SDI adaptor board interface connector
<b>J5</b>	Display port output for panel connection
<b>J6</b>	Panel power output for DisplayPort
<b>IR1</b>	Infra-red Sensor Connector
<b>LED1</b>	Dual color LED connector
<b>P1</b>	VGA analog input
<b>P2</b>	DVI-D or VGA 2 input
<b>PP2/PP3</b>	Power input
<b>PP4</b>	External panel power input
<b>PP5</b>	Power input

### Ordering Options

#### SVX-1920v2

Single Channel HD-1000  
 Single Channel HD-2000  
 OSD Digital Button Board  
 Vertical Membrane OSD  
 Horizontal Membrane Kit  
 Inverter Interface board  
 Audio Amplifier IR Remote Control

#### P/N 4175100xx-3

P/N 4160134xx-3  
 P/N 4160133xx-3  
 Kit 67110-3  
 Kit 67121-3  
 Kit 67134-3  
 P/N 416040010-3  
 P/N 416940020-3  
 P/N 559000106-3

### Drawings

- > Includes 2D (jpg)
- > 3D (SLDPRT)

**Please download at:**  
[www.digitalview.com/  
 products/SVH-1920v2](http://www.digitalview.com/products/SVH-1920v2)

### Available Resources

- > Instruction Manual
  - > Revision Control Documentation\*\*
  - > Firmware Upgrade Manual\*\*
  - > Mechanical Drawing
- \*\* Available on Request

**Controller Solution Generator**  
<http://www.digitalview.com/csg>

#### EUROPE

The Lake House, Knebworth Park, Herts, SG3 6PY, UK  
 t : +44 (0) 20-7631-2150

#### ASIA

2/F Bamboos Centre, 52 Hung To Rd, Kwun Tong, Hong Kong  
 t : (852) 2861-3615

#### USA

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