

SVH - 1920

The Digital View SVH-1920 interface controller for high-definition, large format professional monitor applications.

The SVH-1920 is a fully buffered multi-sync interface controller for providing analog and digital connection for a wide range of TFT LCD panels up to WUXGA resolution. Featuring full screen image expansion of lower resolutions, image flip and invert functions and onscreen PIP functions, the SVH-1920 also supports an optional High-Definition Serial Digital Interface (HD-SDI) adaptor for professional and broadcast video applications. The SVH-1920 is part of Digital View's "Professional Class" video controller family featuring advanced capabilities, support and custom development paths for OEM clients.

Panel Connectivity

TFT:	•1920x1200	•1280x1024	•800x600
	•1920x1080	•1280x768	•640x480
	•1600x1200	•1280x600	
	•1366x768	•1024x768	

Input

- Analog RGB:**
- 60Hz at WUXGA
 - 75Hz at SXGA, WXGA, XGA, SVGA, VGA

With auto detect of Digital Separate Sync, Sync-On-Green & Composite Sync. Auto detects VGA-UXGA, interlaced & non-interlaced.

- DVI-D:**
- 60Hz at WUXGA
 - 60Hz at UXGA
 - 75Hz at SXGA, WXGA, XGA, SVGA, VGA

- Video:**
- NTSC
 - PAL/SECAM (Interlaced)
 - Composite Video
 - S-video
 - RGB Video
 - SD & HD Component (YCrCb) / (YPbPr)

Reliability

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

Features

Colors: Up to 8 bit per color, ie 16.7 million colors.

Functions: On Screen Display (OSD) menu.

Function Controls: External buttons, Infra-Red controls, Serial Port control.

Image Scaling: Up/Down scaling to fit input to panel format.

Image Control: Auto configuration, Brightness, Contrast, Clock, Phase, Color temperature, Image position, Saturation, Hue, Gamma.

Other Features: 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 (3 sizes), Programmable hot keys.

Dimensions: 179mm x 120.4mm (7" x 4.74")

Form Factor: DV standard & mounting holes

Power Requirements: 12V DC, 10W (controller only)

Panel Power: Supports 3.3V, 5V & 12V panels.

Panel Signal: Dual channel TTL & LVDS support.

Inverter Support: DPMS Enable pin (5V or 12V)

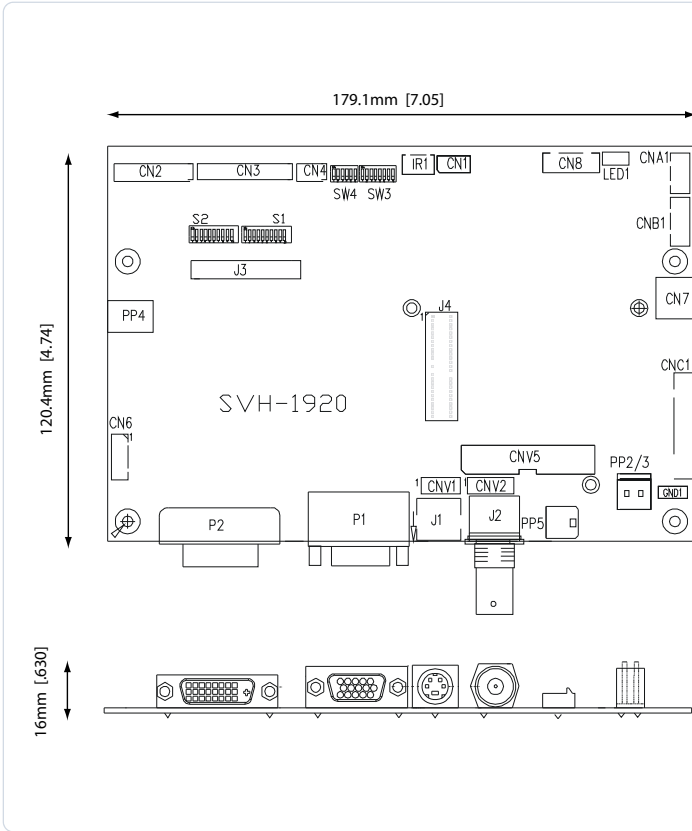
Plug & Play: DDC 1,2/b compatible

Status Indicator: Dual Color LED support.

Options

HD-SDI Daughter board, Infra-Red Remote handset, 2W per channel Audio Amplifier.

Custom Engineering Services - custom input timing, panel timing, splash screen, OSD Menu, conformal coatings, layouts etc.



Connector Definitions

- CN2 TTL panel signal
- CN3 TTL panel signal
- CN4 TTL panel signal
- CN6 HD-Component input connector
- CN7 Audio board connector
- CN8 RS-232 serial control
- CNA1 Auxiliary power output
- CNB1 Backlight inverter
- CNC1 OSD controls
- CNV1 Alternate video in
- CNV2 Component video in
- J1 S-video in
- J2 Composite video in
- J3 Panel signal for LVDS panel
- J4 HD-SDI adaptor board interface
- JA5 External panel power input
- IR1 Infra-Red sensor connector
- LED1 Dual color LED connector
- P1 VGA analog input
- P2 DVI-D or HD-component input
- PP1 Main power input
- PP2/3 Power input (alternative)

Accessories

- 416013020-3 HD-SDI Adaptor Kit
- 60109 OSD Membrane Kit
- 60120 OSD Membrane Kit
- 60124 OSD Membrane Kit
- 416040010-3 Inverter Interface board
- 416940020-3 Audio Amplifier
- 5590001-00 IR Remote Control

*See accessories page on website for details.

Available Documentation

- Instruction Manual
- Serial Port Programming Manual
- Firmware Upgrade Manual
- MTBF Analysis

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