



## 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	•1440x900	•1024x768
	•1920x1080	•1366x768	•800x480
	•1680x1050	•1280x1024	•800x600
	•1600x1200	•1280x768	•640x480

### 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 Component (YCbCr)

### 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, Serial port protocol, Ambient light sensor.

**Power Requirements:** +12VDC / +24VDC ±5%, 10W (controller only)

**Panel Power:** Supports 3.3V, 5V, 12V & 18V panels.

**Panel Signal:** Dual channel TTL & LVDS support.

**Inverter Support:** DPMS Enable pin (3.3V or 5V)

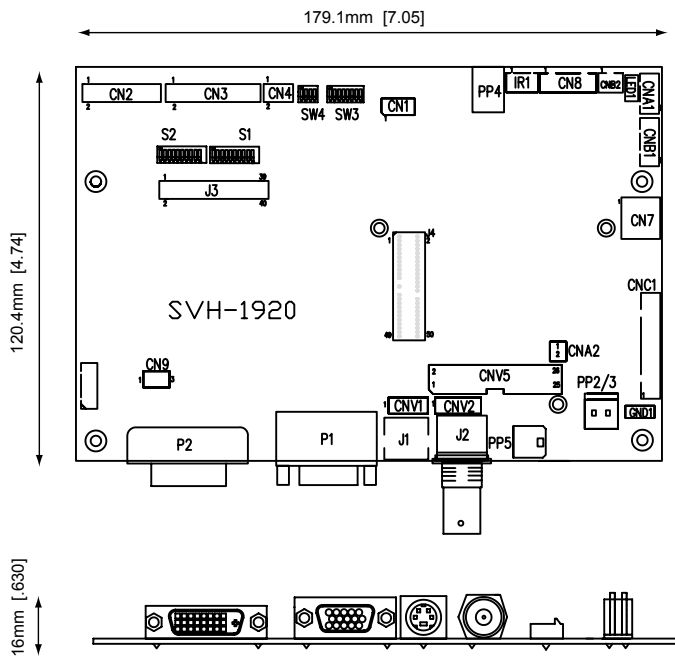
**Plug & Play:** DDC 1,2/b compatible

**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
CN7	Audio board connector
CN8	RS-232 serial control
CN9	Ambient light sensor connector
CNA1	Auxiliary power output
CNA2	Auxiliary +5VDC output
CNB1	Backlight inverter
CNC1	OSD controls
CNV1	Alternate video in
CNV2	Component video in
CNV5	Auxiliary video in
J1	S-video in
J2	Composite video in
J3	Panel signal for LVDS panel
J4	HD-SDI adaptor board interface
IR1	Infra-Red sensor connector
LED1	Dual color LED connector
P1	VGA analog input
P2	DVI-D input
PP4	External panel power input
PP5	Main power input
PP2/3	Power input (alternative)

### Accessories

416013310/20-3	HD-SDI Adaptor (HD-1000/HD-2000)
Kit 60110-3	OSD Button Board
Kit 60121-3	OSD Membrane Kit
Kit 60125-3	OSD Membrane Kit
416040010-3	Inverter Interface board
416940020-3	Audio Amplifier
559000104-3	IR Remote Control

\* See accessories page on website for details.  
 \*\* Available upon request.

### Available Documentation

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

### Mechanical Drawing

Dimensions: 179mm x 120.4mm (7" x 4.74")  
 Form Factor: DV standard & mounting holes

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