

# DIGITALVIEW®

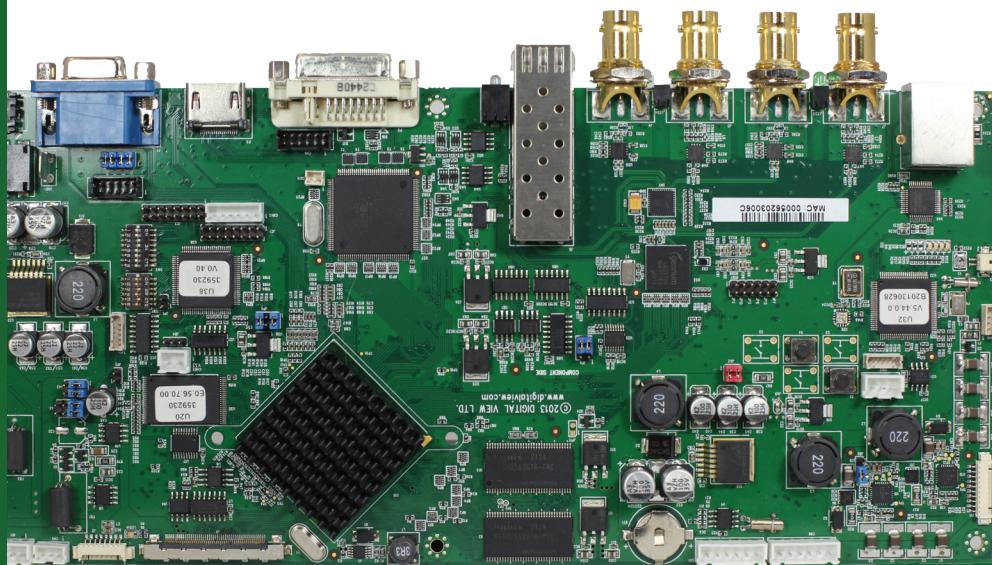


## Product Guide

LCD Controllers  
Accessories  
Custom Engineering

May 2017

[www.digitalview.com](http://www.digitalview.com)



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## Digital View

Since 1995 Digital View has been designing and producing LCD interface controllers for leading professional video display and monitor manufacturers around the globe. As 2017 progresses we will be adding more industry specific solutions to address the growing specialization of the display market.

Digital View controllers have been used in virtually every conceivable LCD display related application including...

- » Industrial Displays
- » Harsh Environment Displays
- » Defense and Security
- » Avionics, Marine and Rail
- » Healthcare Imaging Systems
- » Video Broadcast & Studios
- » Digital Signage for Retail, Advertising & Information
- » Corporate Audio Visual display systems for collaboration
- » Interactive displays and kiosks, way-finding
- » Architectural display systems



## Why Digital View...

Over 20 years of consistent performance as the leading LCD controller developer, manufacturer and solution provider for application specific display systems. Having pioneered the development of specialty LCD interface controllers, Digital View provides a highly skilled, passionate engineering team with customization and support services, including a wide range of accessories to complement core products. Digital View:

- » Supports concept, design, prototyping and mass production.
- » Provides the engineering expertise and technological bridge to the changes and future trends within the industry.
- » Brings cost effective products to market, so companies don't have to develop the expertise themselves while focusing on meeting their own goals.
- » Reduces time to market and increases ROI.
- » QC - 100% production testing with QA verification.
- » Meets MIL standards and UL, CUL, CE, TUV safety and compliance criteria.

## Commercial Off-The-Shelf



Video



Industrial

Medical

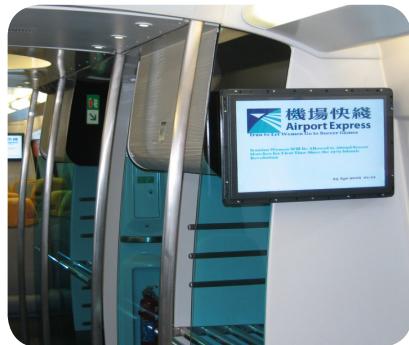


## Harsh Environments

### Aviation



### Digital Signage



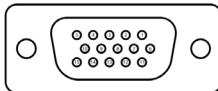
### Marine



## Display Acronyms

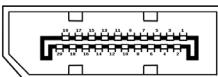
### Monitor resolution

WQXGA	2560 x 1600
WUXGA	1920 x 1200
UXGA	1600 x 1200
WXGA	1366 x 768
SXGA	1280 x 1024
XGA	1024 x 768
SVGA	800 x 600
VGA	640 x 480



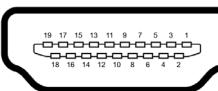
### HD acronyms

8K UHD	7680 x 4320
5K / UHD+	5120 x 2880
True 4K	4096 x 2160
UHD	3840 x 2160
FHD	1920 x 1080
HD	1280 x 720



### TV acronyms

1080p / 1080i	1920 x 1080
720p / 720i	1280 x 720
480p / 480i	640 x 480
PAL	625 scan lines, 576 visible
NTSC	525 scan lines, 480 visible



## LCD Panels Supported...



...and more

# Capabilities

Digital View is known throughout the display industry for high-end reliability and advanced functionality. We have a proven track record for display system related innovation and on-time and on-budget project delivery.

## Engineering Services

Digital View provides display solution related engineering to customers:

- » Input signal support
- » LCD panel resolution & timing support
- » Feature enhancements
- » OSD modifications
- » Splash screen branding
- » Add-on board designs
- » Custom controller layouts
- » Complete turnkey controller development

## Scalable Manufacturing

Digital View supports display projects of all sizes and phases of development, from prototype to production.

## Quality Control & Reliability

Digital View recognizes the demanding requirements of target display applications and takes a holistic approach to quality from specification, design, qualified partners, genuine parts sourcing, production, quality control and support.

## Environmental Standards Compliance & Disclosures

Digital View seeks to meet the ever developing standards for environmental protection as well as supports customers with disclosure requirements. For example, having conformed with RoHS we are now implementing compliance with the European REACH standards. In the USA we have been supporting customers that require Conflict Materials disclosure.

## Selecting an LCD Panel Controller

Digital View LCD controllers are suitable for large, medium and small non-consumer display systems.

### Panel Resolution

Digital View LCD controllers support from 640x480 through to 1920x1200, 2560x1600 and 4096x2160 to meet the panels available on the market and the requirements of the ultimate display application. In addition to the standard display resolution, custom resolutions are also supported. If you are looking for a controller to match a panel, a good place to start is the Controller Solution Generator at [www.digitalview.com/csg](http://www.digitalview.com/csg)

### Signal Inputs

Support for signal formats, resolutions and connectors such as HDMI, DVI, Displayport, 3G-SDI & HD-SDI, Fiber, HD-BaseT, Component, VGA - ARGB, Composite, together with legacy system support such as Sync-On-Green.

### Features & Functions RS-232 & Ethernet

After 20 years of providing LCD controllers, there is an extensive list of solutions for nearly every type of display application, for example a built-in media player in some models for input failover. Some are listed in the controller summary pages that follow, otherwise please contact your nearest Digital View office or authorized reseller as listed on [www.digitalview.com/display-builder-home](http://www.digitalview.com/display-builder-home) for assistance.

### User Interface

Buttons, joysticks, hot-buttons, auto-switching and remote control are just some of the display control options available. Typically, these are enabled by Digital View Accessories or via the extensive serial commands through RS-232 or LAN interface built into Digital View LCD controllers.

### Harsh Environments

Heat, vibration, dust and other airborne contaminants are catered for with the Harsh Environment models. If this is not required then the General Purpose models should be suitable.

## Custom Engineering

Digital View provides extensive custom engineering services  
Contact us for details

## Controller Solution Generator

For downloads of connection diagrams with details of cables  
and settings to match a LCD panel with a controller  
[www.digitalview.com/csg](http://www.digitalview.com/csg)

# Customization

All standard Digital View LCD controller products can be customized either at the production stage or by Digital View engineering to suit a particular display application. Digital View also undertakes custom layout development for matching controller design to a specific customer enclosure. The following are some examples, for particular controller models there may be some technical limitations:

## Splash Screen

Brand owners can have their logo shown when the display initiates

## OSD Menus & Functions

OSD menu design and modification as well as addition or removal of functions

## OSD Buttons

Standard or custom OSD menu buttons either direct or via RS-232 or LAN

## OSD Languages

Lock the OSD to your language or have a new language added

## Function Presets

Assign fixed functions to OSD and menu buttons

## Panel Timing & Resolution

Set up timings and support for non-standard panel resolutions

## Input Signals

Customization includes support for non-standard input signals as well as port & signal locking

## Testing & Calibration

Testing, certification and calibration services are available to meet industry standards

## Cables

Although standard cables meet most applications, custom cables are available

## Custom layouts

Custom board layout to match the mechanical requirements of a display enclosure

## Port Naming

Custom port name display

## Multi-Purpose LCD Controllers

Model	Photo	Panel Resolutions	Color	Panel Voltage	Input Signals	Commands & Control	Other
<b>SVX-4096</b> 203mm x 154mm		3840 x 2160 4096 x 2160 V-by-One eDP LVDS	up to 10-Bit	3.3v 5v 10V 12v 18v	HDMI x3 DVI-I Dual Link x1 Displayport x1 VGA x1 (on DVI-I)	OSD Buttons IR Remote Ethernet RS-232	DICOM PiP, PbP Telemetry 12/24V DC in PWM, DPMS
<b>SVX-4096-120</b> 203mm x 194mm		3840 x 2160 4096 x 2160 60Hz, 120Hz V-by-One	up to 10-Bit	3.3v 5v 10V 12v 18v	HDMI x3 DVI-I Dual Link x1 Displayport x1 VGA x1 (on DVI-I)	OSD Buttons IR Remote Ethernet RS-232	PiP, PbP Telemetry 12/24V DC in PWM, DPMS
<b>SVX-2560</b> 203.2mm x 120.4mm		up to 2560 x 1600 60Hz, 120Hz LVDS eDP	up to 10-Bit	3.3v 5v 12v 18v	HDMI x1 DVI-Dual Link x1 VGA x1 Displayport Component x1 S-Video x 2	OSD Buttons IR Remote Ethernet RS-232	PiP 3G-HD-SDI* Screen Marker 12/24V DC In PWM, DPMS
<b>SVX-1920v3</b> 179mm x 120mm		up to 1920 x 1200 LVDS	up to 10-Bit	3.3v 5v 12v 18v	HDMI x1 DVI-D x1 VGA x 1 Component 3G-SDI (option)	OSD Buttons IR Remote Ethernet RS-232	PiP Image Flip (H&V) 12/24V DC In PWM, DPMS
<b>SVH-1920v2</b> 179mm x 120mm		up to 1920 x 1200 LVDS	up to 8-Bit	3.3v 5v 12v 18v	DVI-D x1 VGA x2 Component Composite x 2 S-Video x 2 HD-SDI*	OSD Buttons IR Remote RS-232	PiP Image Flip 12/24V DC Input PWM, DPMS

<b>SP-4096</b> 179mm x 120mm		up to 4096 x 2160 V-by-One	up to 10-Bit	3.3v 5v 10v 12v 18v	HDMI x2 DVI-I x1 VGA x1 (via DVI) USB for failover	OSD Buttons IR Remote RS-232	Input failover 12/24V DC In PWM, DPMS
<b>SP-1920</b>		up to 1920 x 1200 LVDS	up to 10 bit	3.3v 5v 10V 12v	HDMI x2 DVI-D x1 / VGA x1 Component x1 Composite x2 USB for failover	OSD Buttons IR Remote RS-232	Input failover Image flip 12V DC Input PWM, DPMS

<b>ALR-1920</b> 108mm x 92mm		up to 1920 x 1200 LVDS	up to 8-Bit	3.3v 5v 12v 18v	HDMI x1 Displayport x1 VGA x1	OSD Buttons IR Remote RS-232	12/24V DC In PWM, DPMS
<b>ALR-1920-120</b> 127mm x 92mm		up to 1920 x 1200 120Hz LVDS	up to 10-Bit	3.3v 5v 12v 18v	HDMI x1 Displayport x1	OSD Buttons IR Remote RS-232	12/24V DC In PWM, DPMS
<b>ALR-1920-SDI</b> 185mm x 93.5mm		up to 1920 x 1200 LVDS	up to 8-Bit	3.3v 5v 12v	HDMI x1 Displayport x1 VGA x1 HD-SDI x1	OSD Buttons IR Remote RS-232	12V DC Input PWM, DPMS 3G-HD-SDI
<b>ALR-1400v2</b> 108mm x 92mm		up to 1440 x 900 LVDS, TTL	up to 8-Bit	3.3v 5v 12v 18v	DVI-D x1 VGA x1	OSD Buttons IR remote RS-232	12/24V DC In PWM, DPMS

Model	Photo	Panel Resolutions	Color	Panel Voltage	Input Signals	Command + Control	Other
DD-1920 Family		upto 1920 x 1200 LVDS	up to 8-Bit	3.3v 5v 12v	DVI (Dual-DVI) HDMI Displayport HDBT VGA	OSD Buttons IR Remote RS-232	12 DC Input PWM, DPMS

## Harsh Environment LCD Controller Range

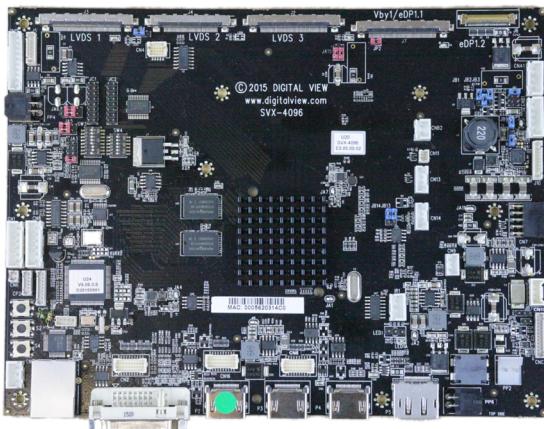
Model	Photo	Panel Resolutions	Color	Panel Voltage	Input Signals	Command & Control	Other
HX-4096 203mm x 154mm		up to 4096 x 2160 60Hz & 120Hz V-by-One eDP LVDS	up to 10-Bit	3.3v 5v 10v 12v 18v	HDMI x3 DVI-D Link x1 Displayport x1 VGA x1 (on DVI-I) 3G-HD-SDI*	OSD Buttons IR Remote Ethernet RS-232	PiP, PbP 12V DC Input PWM, DPMS
HX-1920v3 179mm x 120mm		up to 1920 x 1200 LVDS	up to 10-Bit	3.3v 5v 12v 18v	HDMI x1 DVI-D x1 VGA x1 Component 3G-HD-SDI*	OSD Buttons IR Remote Ethernet RS-232	PiP Image flip Screen Marker 12V DC Input PWM, DPMS
HE-1920v2 179mm x 120mm		up to 1920 x 1200 LVDS	up to 8-Bit	3.3v 5v 12v 18v	DVI-I x1 VGA x2 Component x2 Composite x1 S-Video x1	OSD Buttons IR Remote RS-232	PIP Image flip 12/24V DC In PWM, DPMS
HLR-1920 108mm x 92mm		up to 1920 x 1200 LVDS	up to 8-Bit	3.3v 5v 12v 18v	HDMI x1 Displayport x1 VGA x1	OSD Buttons IR Remote RS-232	12V DC In PWM, DPMS
HE-1400v2 108mm x 92mm		up to 1440 x 900 LVDS, TTL	up to 8-Bit	3.3v 5v 12v	DVI-D x1 VGA x1	OSD Buttons IR Remote RS-232	12/24V DC Input PWM, DPMS
HDD-1920 92mm x 60mm		up to 1920 x 1200 LVDS	up to 8-Bit	3.3v 5v 12v	HDMI header	OSD Buttons IR Remote RS-232	12V DC Input PWM, DPMS

\* Requires optional add-on board, see Accessories

Accessories : Pg 48-51

## SVX-4096

Part No : 4175500XX-3



**The SVX-4096 is an advanced controller supporting LCD & OLED panels up to 4096 x 2160 resolution**

### Features:

- » Up to 4096 x 2160 input, 10 bit / Up to 4096 x 2160 LCD panels, 10 bit
- » HDMI 2.0, HDMI 1.4, DisplayPort 1.2, DVI-I Dual Link
- » V-by-One, eDP, LVDS panel connection @60Hz (& 120Hz with IE-2000)
- » Full frame memory buffer for enhanced image control
- » Ethernet, RS-232, Infra-red remote control, External buttons

### Panel Connection

**V-by-One:** up to 4096 x 2160 @60Hz  
(8 channel)

add IE-2000 for 120Hz

**eDP (HBR/HBR2)** up to 4096 x 2160 @60Hz

**LVDS (8 channel)** up to 4096 x 2160 @60Hz

**Panel resolutions** 4096 x 2160, 3840 x 2160,  
2560 x 1440/1600  
1920 x 1200, 1920 x 1080

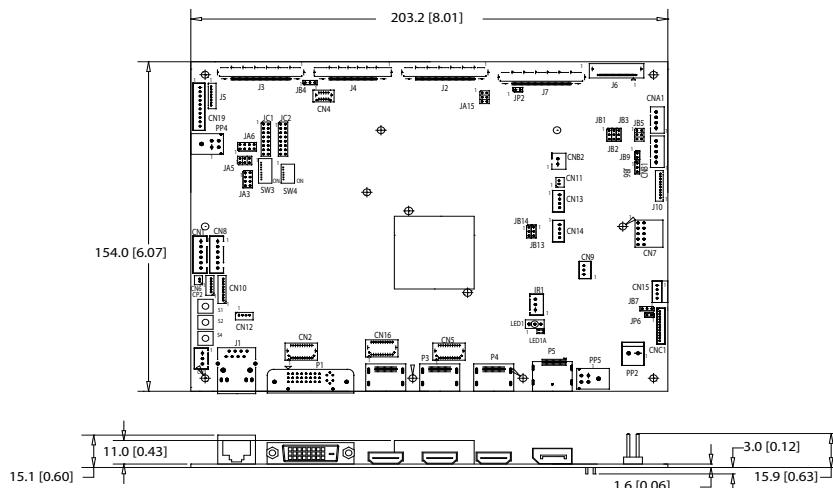
### Input Signal

**HDMI 2.0** 60Hz up to 4096 x 2160  
75Hz up to 1600 x 1200

**HDMI 1.4** 30Hz up to 4096 x 2160  
60Hz up to 2560 x 1600  
75Hz up to 1600 x 1200

**Displayport 1.2** 60Hz up to 4096 x 2160  
75Hz up to 1600 x 1200

**DVI-I Dual Link** (includes VGA) 30Hz up to 4096 x 2160  
60Hz up to 2560 x 1600  
75Hz up to 1600 x 1200



## Functions:

**Display:** On Screen Display (OSD)

**Controls:** External buttons, Infra-Red, Serial, RS-232, Ethernet

**Image Control:** Brightness, Contrast, Color Temperature, Image position, Saturation, Hue, Sharpness, Up/Down scaling to fit input to panel resolution

**Other:** System information, Scaling to fill screen and fill to aspect ratio, Programmable hotkeys, Factory reset, Up to quad Picture in Picture (PiP), Picture by Picture (PbP), Ambient light sensor support\*, Enable frame buffer for FRC image enhancement, OSD menu transparency, DDC-Cl support\*

## Accessories:

IE-2000, for 120Hz panels	P/N 4175600XX-3
Inverter interface board	[subject to panel]
IR remote control	P/N 559000106-3
OSD digital button board	Kit 67110-3
OSD membrane kit - Ver	Kit 67134-3
OSD membrane kit - Hor	Kit 67135-3
Audio Add-on board	P/N 416940020-3

## Specifications - other:

**Colors:** 10 bit input / 10 bit panel support

**Panel Power:** 3.3V, 5V, 10V, 12V, 18V

**Input Power:** 12VDC /24 VDC +/- 5%, 10W

**Inverter Support:** DPMS enable (3.3V or 5V), PWM

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

**Status indicator:** Dual color LED support

**MTBF:** 100,000 hours

RoHS compliant: Yes

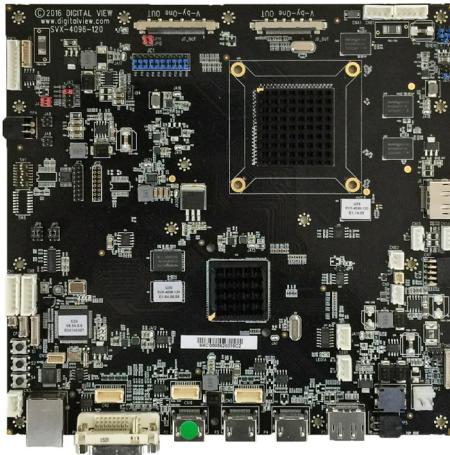
## On the Website

[www.digitalview.com/products/svx-4096-lcd-controller](http://www.digitalview.com/products/svx-4096-lcd-controller)



# SVX-4096-120

Part No : 4175900XX-3



**The SVX-4096-120 is a full function controller supporting 60Hz and 120Hz LCD panels up to 4096 x 2160 resolution**

## Features:

- » Up to 4096 x 2160 input, 10 bit / Up to 4096 x 2160 120Hz LCD panels, 10 bit
- » HDMI 2.0, HDMI 1.4, DisplayPort 1.2 (& pass-through output), DVI-I Dual Link
- » V-by-One panel connection @60Hz/120Hz
- » Full frame memory buffer for enhanced image control
- » Ethernet, RS-232, Infra-red remote control, External buttons

## Panel Connection

**V-by-One:** up to 4096 x 2160  
(8 & 16 channel) @60Hz & 120Hz

**Panel resolutions** 4096 x 2160, 3840 x 2160,  
2560 x 1440/1600  
1920 x 1200, 1920 x 1080

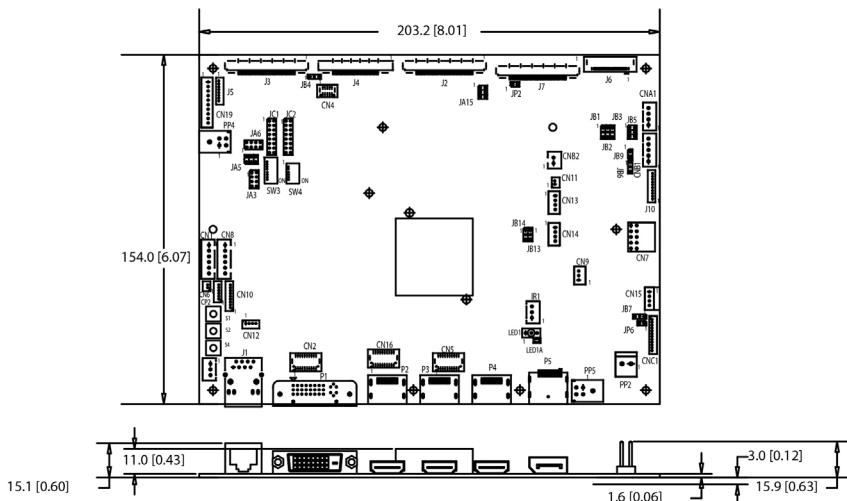
## Input Signal

**HDMI 2.0** 60Hz up to 4096 x 2160  
75Hz up to 1600 x 1200

**HDMI 1.4** 30Hz up to 4096 x 2160  
60Hz up to 2560 x 1600  
75Hz up to 1600 x 1200

**Displayport 1.2** 60Hz up to 4096 x 2160  
75Hz up to 1600 x 1200

**DVI-I Dual Link  
(includes VGA)** 30Hz up to 4096 x 2160  
60Hz up to 2560 x 1600  
75Hz up to 1600 x 1200



## Functions:

**Display:** On Screen Display (OSD)

**Controls:** External buttons, Infra-Red, Serial  
RS-232, Ethernet

**Image Control:** Brightness, Contrast, Color Temperature, Image position, Saturation, Hue, Sharpness, Up/Down scaling to fit input to panel resolution, Image flip.

**Other:** System information, Scaling to fill screen and fill to aspect ratio, Programmable hotkeys, Factory reset, Picture in Picture (PiP), Picture by Picture (PbP), Ambient light sensor support\*, Enable frame buffer for FRC image enhancement, OSD menu transparency, DDC-Cl support\*

## Accessories:

Inverter interface board	[subject to panel]
IR remote control	P/N 559000106-3
OSD digital button board	Kit 67110-3
OSD membrane kit - Ver	Kit 67134-3
OSD membrane kit - Hor	Kit 67135-3
3G-SDI adaptor	[TBA]
Audio Add-on board	P/N 416940020-3

## Specifications - other:

**Colors:** 10 bit input / 10 bit panel support

**Panel Power:** 3.3V, 5V, 10V, 12V, 18V

**Input Power:** 12VDC /24 VDC +/- 5%, 10W

**Inverter Support:** DPMS enable (3.3V or 5V), PWM

**Plug & Play:** PDC 1.2/b compatible

**Status indicator:** Dual color LED support

**MTBF:** 100,000 hours

RoHS compliant: Yes

**Warranty: 3 Years**

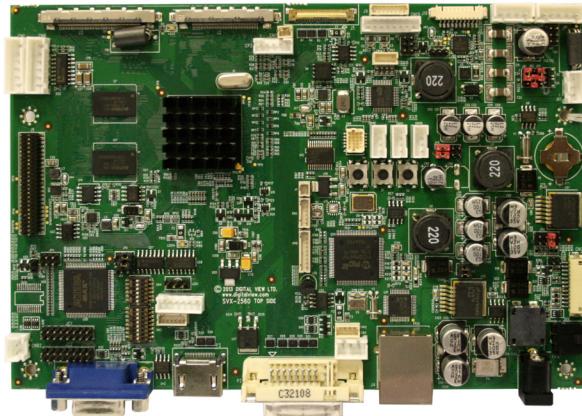
## On the Website

[digitalview.com/products/svx-4096-120-lcd-controller](http://digitalview.com/products/svx-4096-120-lcd-controller)



# SVX-2560

Part No : 4174700xx-5



**The SVX-2560 is an advanced controller for LCD panels up to 2560 x 1600 resolution**

## Features

- » Up to 2560 x 1600 input, 10 bit / Up to 2560 x 1600 LCD panel connectivity, 10 bit
- » HDMI, Displayport, DVI-D Dual Link, VGA, Component
- » LVDS, eDP panel connection @60Hz refresh rate
- » Full frame memory buffer for enhanced image control
- » Ethernet, RS-232 (Serial), Infra-red remote, External buttons

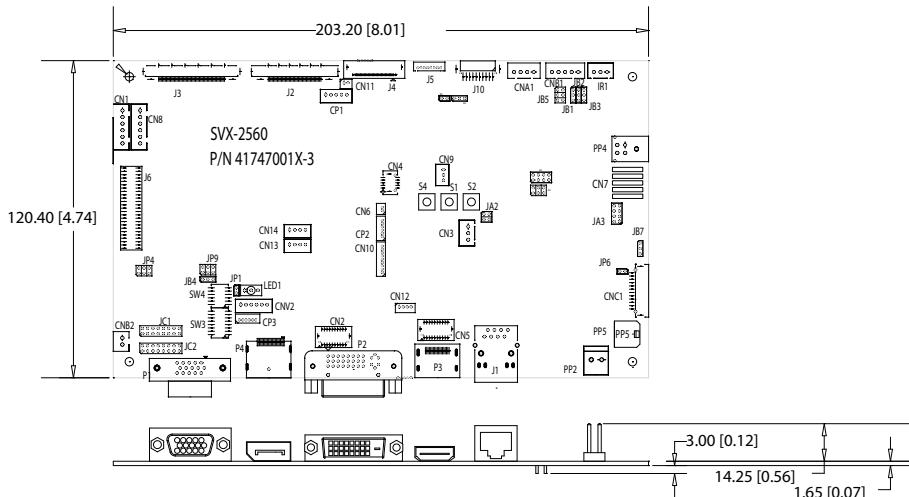
## Panel Connection

**LVDS (4 channel)** up to 2560 x 1600 @60Hz  
**eDP (HBR/HBR2)** up to 2560 x 1600 @60Hz

**Panel resolutions** 2560 x 1440/1600  
 Most standard & custom resolutions up to 1920 x 1200

## Input Signal

<b>HDMI 1.4</b>	60Hz up to 2560 x 1600 75Hz up to 1280 x 1024
<b>DVI-D Dual Link</b>	60Hz up to 2560 x 1600 75Hz up to 1280 x 1024
<b>Displayport 1.2</b>	60Hz up to 2560 x 1600 75Hz up to 1280 x 1024
<b>ARGB (VGA)</b>	60Hz up to 1920 x 1200 75Hz up to 1280 x 1024
<b>Component</b>	720p, 1080i, 1080p
<b>3G-SDI</b>	Option: HD-3000S add-on



## Functions

**Display:** On Screen Display (OSD)

**Controls:** External buttons, Infra-Red, Serial, RS-232, Ethernet

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

**Other:** System Information, OSD position, Scaling to fill screen and fill to aspect ratio, OSD timeout, Factory reset, Picture in Picture variable position with 18 size selections and Picture by Picture, Programmable hot keys. Support for options such as ambient light sensor.

## Accessories

Inverter Interface Board	P/N 416040010-3
IR Remote Control	P/N 559000106-3
OSD Button Board	Kit 67110-3
OSD Membrane Kit Hor	Kit 67134-3
OSD Membrane Kit Ver	Kit 67135-3
Power Input Cable	P/N 426013800-3
Power Supply	Kit 80100-3
AVD-1000 analog video	Kit 71300-3
3G-SDI Adaptor	[TBA]

## Specifications - other

**Colors:** 10 bit input / 10 bit panel support

**Panel Power:** 3.3V, 5V, 12V, 18V

**Input Power:** 12VDC /24 VDC +/- 5%, 10W

**Inverter Support:** DPMS enable (3.3V or 5V), PWM

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

**Status indicator:** Dual color LED support

**MTBF:** 100,000 hours

**RoHS compliant:** Yes

## On the Website

[www.digitalview.com/products/svx-2560-lcd-controller](http://www.digitalview.com/products/svx-2560-lcd-controller)



## SVX-1920v3

Part No : 4174800xx-5



**The SVX-1920v3 is an advanced controller supporting LCD panels up to 1920 x 1200 resolution. It replaces the SVX-1920**

### Features:

- » Up to 1920 x 1200 input, 10 bit / Up to 1920 x 1200 LCD panels, 10 bit
- » Analog RGB (VGA), HDMI, DVI-D, Component
- » LVDS panel connection @60Hz refresh rate
- » Full frame memory buffer for enhanced image control
- » Ethernet, RS-232 (Serial), Infra-red remote control, External buttons

### Panel Connection

**LVDS (2 channel)** up to 1920 x 1200 @60Hz  
\*add IE-1010 for 120Hz

**Panel resolutions** Most standard & custom resolutions up to 1920 x 1200

### Input Signal

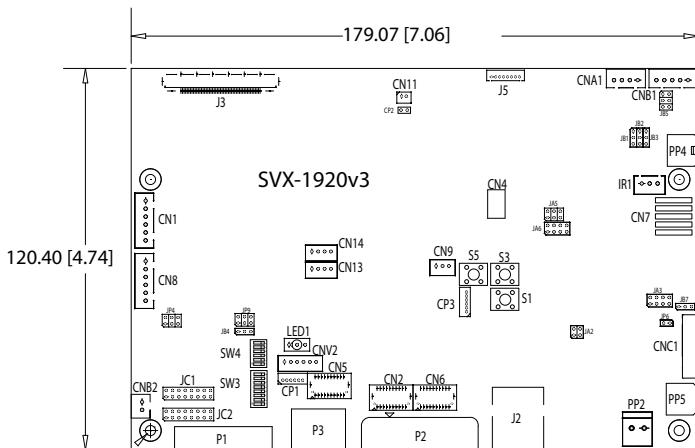
<b>HDMI 1.4</b>	60Hz up to 1920 x 1200
	75Hz up to 1280 x 1024

<b>DVI-D</b>	60Hz up to 1920 x 1200
	75Hz up to 1280 x 1024

<b>ARGB (VGA)</b>	60Hz up to 1920 x 1200
	75Hz up to 1280 x 1024

<b>Component</b>	720p, 1080i, 1080p
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<b>3G-SDI</b>	*available as an option with HD-3000S add-on board
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## Functions:

#### Display: On Screen Display (OSD)

**Controls:** External buttons, Infra-Red, Serial, RS-232, Ethernet

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

**Other:** System Information, OSD position, Scaling to fill screen and fill to aspect ratio, OSD timeout, Factory reset, Image flip, Picture in Picture variable position with 18 size selections and Picture by Picture, Programmable hot keys. Support for options such as ambient light sensor

## Accessories

3G-SDI Adaptor HD-3000S P/N 4160164xx-3  
Inverter Interface Board P/N 416040010-3

IR Remote Control	P/N 559000106-3
OSD Button Board	Kit 67110-3
OSD Membrane Kit Hor	Kit 67134-3
OSD Membrane Kit Ver	Kit 67135-3
Power Input Cable	P/N 426013800-3
Power Supply	Kit 80100-3
AVD-1000 analog video	Kit 71300-3

## Specifications - other:

**Colors:** 10 bit input / 10 bit panel support

**Panel Power:** 3.3V, 5V, 12V, 18V

**Input Power:** 12VDC /24 VDC +/- 5%, 10W

**Inverter Support:** DPMS enable (3.3V or 5V),  
PWM

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

**Status indicator:** Dual color LED support

**MTBF:** 100,000 hours

RoHS compliant: Yes

**Warranty:** 3 Years

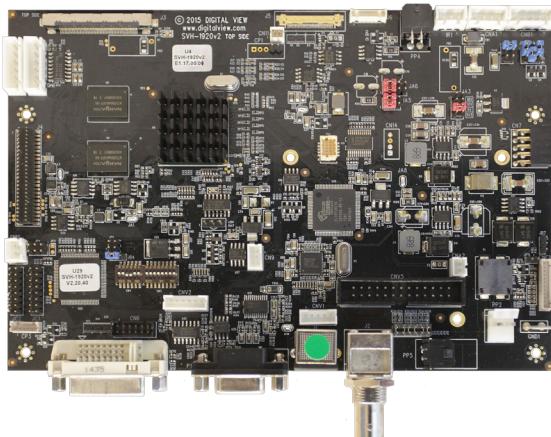
## On the Website

[digitalview.com/products/svx-1920y3-lcd-controller](http://digitalview.com/products/svx-1920y3-lcd-controller)



## SVH-1920v2

Part No : 4175200xx-3



**The SVH-1920v2 is an advanced controller supporting LCD panels up to 1920 x 1200 resolution. It replaces the SVH-1920**

### Features:

- » Up to 1920 x 1200 input, 10 bit / Up to 1920 x 1200 LCD panels, 10 bit
- » DVI-I (DVI-D & VGA2), Analog RGB (VGA) / Component, S-Video, Composite
- » LVDS panel connection @60Hz refresh rate
- » Full frame memory buffer for enhanced image control
- » RS-232 (Serial), Infra-red remote control, External buttons

### Panel Connection

**LVDS (2 channel)** up to 1920 x 1200 @60Hz  
\*add IE-1010 for 120Hz

**eDP (HBR)** up to 1920 x 1200 @60Hz

**Panel resolutions** Most standard & custom resolutions up to 1920 x 1200

### Input Signal

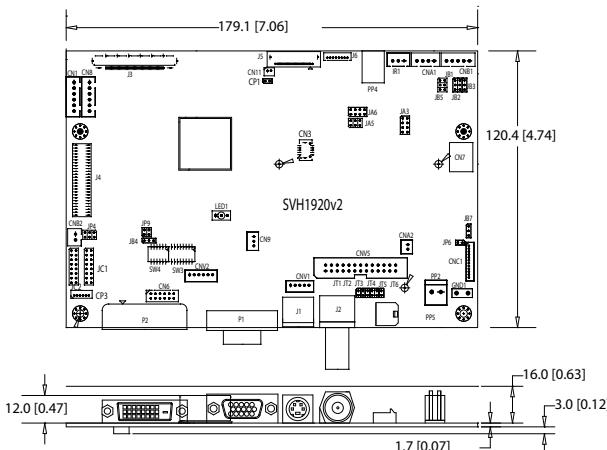
**DVI-D Single Link** 60Hz up to 1920 x 1200  
75Hz up to 1280 x 1024

**ARGB (VGA)** 60Hz up to 1920 x 1200  
75Hz up to 1280 x 1024

**Component** 720p, 1080i, 1080p

**Video** PAL / NTSC / SECAM

**HD-SDI** \*available as an option with HD-1000/HD-2000 add-on boards



## Functions:

**Display:** On Screen Display (OSD)

**Controls:** External buttons, Infra-Red, Serial RS-232

**Image Control:** Brightness, Contrast, Color Temperature, Image position, Saturation, Hue, Sharpness, Up/Down scaling to fit input to panel resolution

**Other:** 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 (PiP) variable position & any input combination (18 sizes), Picture by Picture, Programmable hot keys, Serial port protocol, Ambient light sensor support

## Accessories

OSD Digital Button Board	Kit 67110-3
OSD Vertical Membrane	Kit 67135-3
OSD Horizontal Membrane	Kit 67134-3
Inverter Interface Board	P/N 416040010-3
Audio Amplifier	P/N 416940020-3
IR Remote Control	P/N 559000106-3
IE-1010, for 120Hz panels	P/N 4172900xx-3
HD-1000 HD-SDI 1 ch	P/N 4160134xx-3
HD-2000 HD-SDI 2 ch	P/N 4160133xx-3

## Specifications - other:

**Colors:** 10 bit input / 10 bit panel support

**Panel Power:** 3.3V, 5V, 12V, 18V

**Input Power:** 12VDC /24 VDC +/- 5%, 10W

**Inverter Support:** DPMS enable (3.3V or 5V), PWM

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

**Status indicator:** Dual color LED support

**MTBF:** 100,000 hours

**RoHS compliant:** Yes

**Warranty:** 3 Years

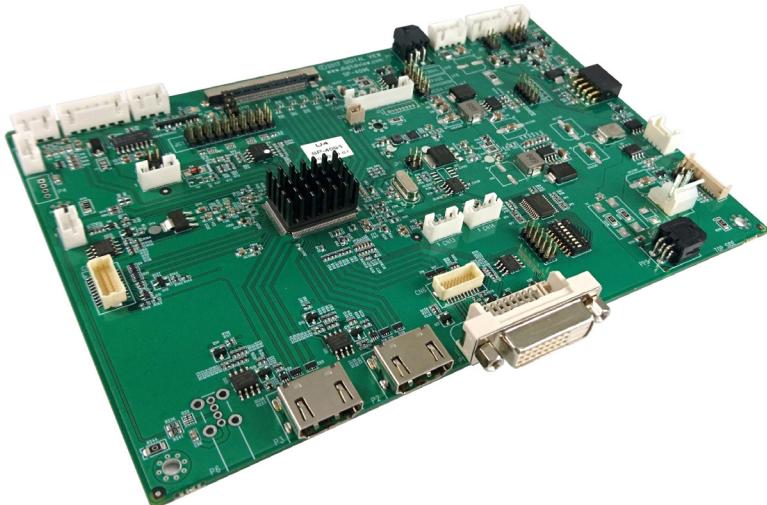
## On the Website

[digitalview.com/products/svh-1920v2-lcd-controller](http://digitalview.com/products/svh-1920v2-lcd-controller)



## SP-4096 (coming soon)

Part No : 4176100xx-3



**The SP-4096 controller for LCD panels up to 4096 x 2160 with HDMI, DVI-I & ARGB inputs, and input source failover.**

#### Features:

- » Up to 4096 x 2160 input, 10 bit / Up to 4096 x 2160 LCD panels, 10 bit
- » HDMI (x2), DVI-I, ARGB (VGA)
- » V-by-One panel connection @60Hz refresh rate
- » H.264 built-in media player for input source failover
- » RS-232 (Serial), Infra-red remote control, External buttons

#### Panel Connection

V-by-One      up to 4096 x 2160 @60Hz

**Panel resolutions**    Most standard & custom resolutions up to 4096 x 2160

#### Input Signal

**HDMI 2.0**      60Hz up to 4096 x 2160

**DVI-I**      60Hz up to 1920 x 1200

**ARGB (VGA)**      60Hz up to 1920 x 1200

## Functions:

**Display:** On Screen Display (OSD)

**Controls:** External buttons, Infra-Red, Serial RS-232

**Main:** Backlight brightness, Contrast, Color Temperature, Saturation, Hue, Sharpness, Black level

**Other:** Input source select, Auto source seek, Auto picture setup, Auto color gain, Manual clock & phase, OSD timeout, OSD menu transparency, System Information, Image scaling - Up/Down scaling to fit input to panel resolution & aspect ratio. Load factory defaults.

**Media failover:** H.264 from USB

## Accessories

IE-2000 for 120Hz panels 41775600xx-3

OSD Digital Button Board Kit 67110-3

OSD Vertical Membrane Kit 67135-3

OSD Horizontal Membrane Kit 67134-3

Inverter Interface board P/N 416040010-3

IR Remote Control P/N 559000106-3

## Specifications - other:

**Colors:** 10 bit input / 10 bit panel support

**Panel Power:** 3.3V, 5V, 10V, 12V, 18V

**Input Power:** 12VDC /24 VDC +/- 5%, 10W

**Inverter Support:** DPMS enable (3.3V or 5V), PWM

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

**Status indicator:** Dual color LED support

**MTBF:** over 100,000 hours

**RoHS compliant:** Yes

**Warranty:** 3 Years

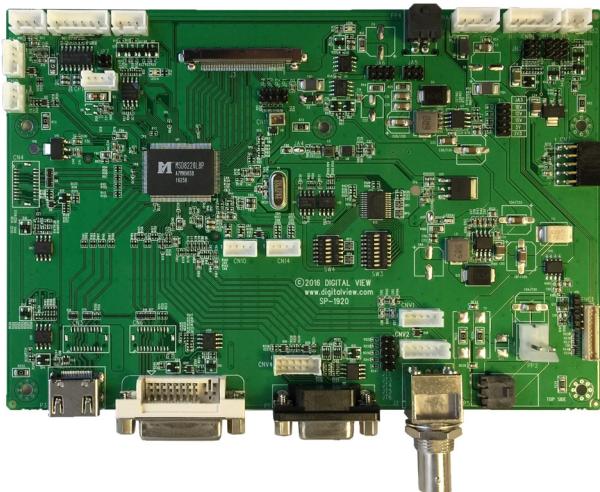
## On the Website

[digitalview.com/products/sp-4096-lcd-controller](http://digitalview.com/products/sp-4096-lcd-controller)



# SP-1920

Part No : 4176000xx-3



**The SP-1920 controller for LCD panels up to 1920 x 1200 with HDMI, DVI, ARGB & Composite inputs and H.264 media player for input failover.**

#### Features:

- » Up to 1920 x 1200 input, 8 bit / Up to 1920 x 1200 LCD panels, 10 bit
- » HDMI (x2), DVI, Analog RGB (VGA), Composite, Component
- » LVDS panel connection @60Hz refresh rate
- » H.264 built-in media player for input source failover
- » RS-232 (Serial), Infra-red remote control, External buttons

#### Panel Connection

**LVDS (2 channel)** up to 1920 x 1200 @60Hz

**Panel resolutions** Most standard & custom resolutions up to 1920 x 1200

#### Input Signal

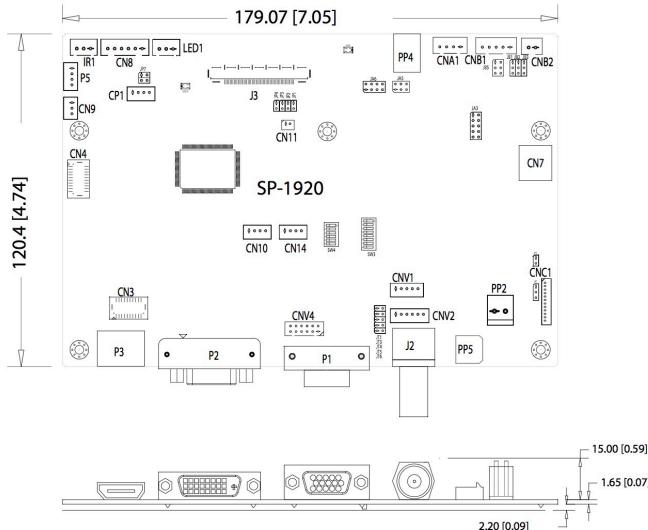
**HDMI** 60Hz up to 1920 x 1200

**DVI** 60Hz up to 1920 x 1200

**ARGB (VGA)** 60Hz up to 1920 x 1200

**Composite** PAL, NTSC

**Component** PAL, NTSC  
480p, 576p, 720p, 1080i,  
1080p



## Functions:

**Display:** On Screen Display (OSD)

**Controls:** External buttons, Infra-Red, Serial, RS-232

**Main:** Backlight brightness, Contrast, Color Temperature, Image positioning, Saturation, Hue, Sharpness, Black level

**Other:** Input source select, Auto source seek, Auto picture setup, Auto color gain, Manual clock & phase, OSD timeout, OSD menu transparency, Image orientation, System Information, Image scaling - Up/Down scaling to fit input to panel resolution & aspect ratio. Load factory defaults.

### Media failover: H.264 from USB

## Specifications - other:

**Colors:** 10 bit input / 10 bit panel support

**Panel Power:** 3.3V, 5V, 10V, 12V, 18V

**Input Power:** 12VDC /24 VDC +/- 5%, 10W

**Inverter Support:** DPMS enable (3.3V or 5V), PWM

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

**Status indicator:** Dual color LED support

**MTBF:** over 100,000 hours

RoHS compliant: Yes

## On the Website

[digitalview.com/products/sp-1920-lcd-controller](http://digitalview.com/products/sp-1920-lcd-controller)

## Accessories

OSD Digital Button Board Kit 67110-3  
OSD Vertical Membrane Kit 67135-3  
OSD Horizontal Membrane Kit 67134-3  
Inverter Interface board P/N 416040010-3  
IR Remote Control P/N 559000106-3

# ALR-1920

Part No : 4172700xx-3



**The ALR-1920 is a compact controller for LCD panels up to 1920 x 1200 with HDMI, Displayport & ARGB inputs.**

#### Features:

- » Up to 1920 x 1200 input, 8 bit / Up to 1920 x 1200 LCD panels, 8 bit
- » HDMI, Displayport, Analog RGB (VGA)
- » LVDS panel connection @60Hz refresh rate
- » RS-232 (Serial), Infra-red remote control, External buttons

#### Panel Connection

**LVDS (2 channel)** up to 1920 x 1200 @60Hz

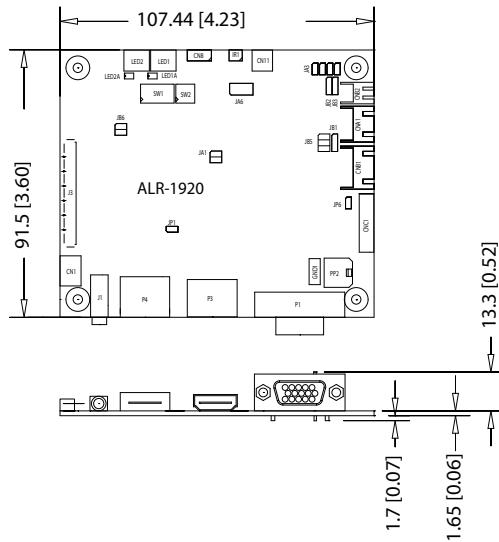
**Panel resolutions** Most standard & custom resolutions up to 1920 x 1200

#### Input Signal

<b>HDMI</b>	60Hz up to 1920 x 1200
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<b>Displayport</b>	60Hz up to 1920 x 1200
--------------------	------------------------

<b>ARGB (VGA)</b>	60Hz up to 1920 x 1200
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## Functions:

### Display: On Screen Display (OSD)

**Controls:** External buttons, Infra-Red, Serial, RS-232

**Image Control:** Brightness, Contrast, Sharpness, Clock, Phase, Color temperature, Image position, Gamma, Sharpness

**Other:** Auto picture setup, Auto RGB calibration, Auto source seek, OSD timeout, OSD position, OSD menu rotation, OSD transparency, Select input source, Volume control, Load factory defaults

## Accessories

OSD Digital Button Board Kit 67110-3  
OSD Vertical Membrane Kit 67135-3  
OSD Horizontal Membrane Kit 67134-3  
Inverter Interface board P/N 416040010-3  
IR Remote Control P/N 559000106-3

## Specifications - other:

**Colors:** 8 bit input / 8 bit panel support

**Panel Power:** 3.3V, 5V, 12V, 18V

**Input Power:** 12VDC /24 VDC +/- 5%, 10W

## Inverters

## PWM

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

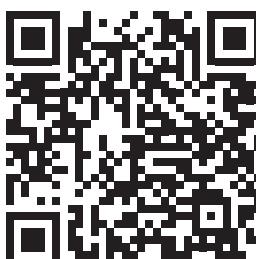
### Status indicator: Dual color

**MBIF:** over 100,000 members

RoHS compliant:  
Warranty: 3 Years

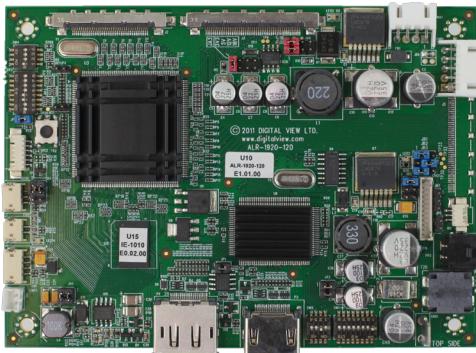
## On the Website

[digitalview.com/products/alr-1920-lcd-controller](http://digitalview.com/products/alr-1920-lcd-controller)



# ALR-1920-120

Part No : 41731003x-3



**The ALR-1920-120 is a compact controller for 60Hz\* & 120Hz LCD panels up to 1920 x 1200 resolution.**

#### Features:

- » Up to 1920 x 1200 input, 8 bit / Up to 1920 x 1200 LCD panels, 120Hz 10 bit
- » HDMI, Displayport
- » LVDS panel connection @60Hz & 120Hz refresh rate
- » RS-232 (Serial), Infra-red remote control, External buttons

#### Panel Connection

LVDS (4 channel) up to 1920 x 1200 @120Hz

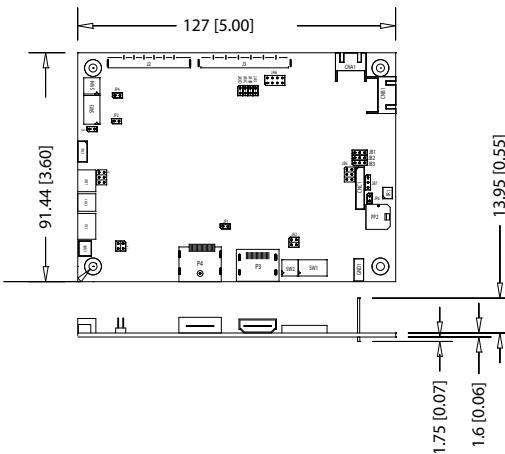
#### Input Signal

HDMI 60Hz up to 1920 x 1200

**Panel resolutions** Most standard & custom resolutions up to 1920 x 1200

Displayport 60Hz up to 1920 x 1200

\*Alternate firmware version



## Functions:

**Display:** On Screen Display (OSD)  
**Controls:** External buttons, Infra-Red, Serial RS-232  
**Image Control:** Auto configuration, Brightness, Contrast, Color temperature, Gamma, Sharpness.  
**Other:** Auto source seek, OSD timeout, OSD position, OSD menu rotation, OSD transparency, Select input source, Volume control, Load factory defaults

## Specifications - other:

**Colors:** 8 bit input / 10 bit 120Hz panel support  
**Panel Power:** 3.3V, 5V, 12V, 18V  
**Input Power:** 12VDC /24 VDC +/- 5%, 10W  
**Inverter Support:** DPMS enable (3.3V or 5V), PWM  
**Plug & Play:** DDC 1, 2/b compatible  
**Status indicator:** Dual color LED support  
**MTBF:** over 100,000 hours  
**RoHS compliant:** Yes  
**Warranty:** 3 Years

## Accessories

OSD Digital Button Board	Kit 67110-3
OSD Vertical Membrane	Kit 67135-3
OSD Horizontal Membrane	Kit 67134-3
Inverter Interface board	P/N 416040010-3
IR Remote Control	P/N 559000106-3

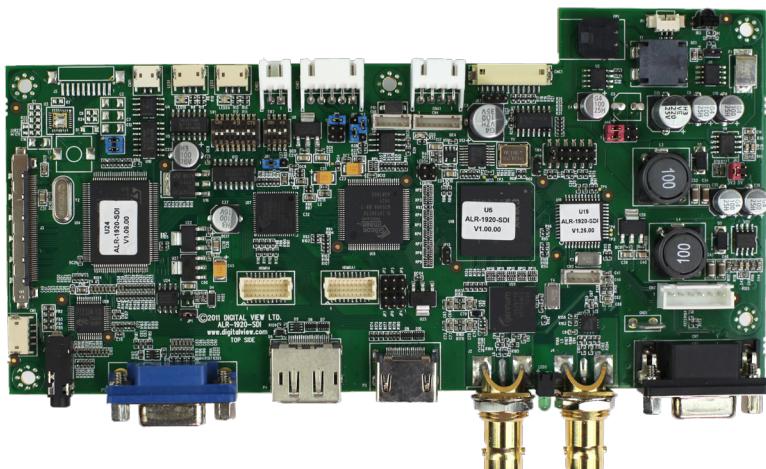
## On the Website

[digitalview.com/products/ALR-1920-120-LCD-Controller](http://digitalview.com/products/ALR-1920-120-LCD-Controller)



# ALR-1920-SDI

Part No : 4172800xx-3



**The ALR-1920-SDI provides the functionality of the ALR-1920 controller with the addition of 3G-SDI input.**

#### Features:

- » Up to 1920 x 1200 input, 8 bit / Up to 1920 x 1200 LCD panels, 8 bit
- » 3G-SDI / HD-SDI, HDMI, Displayport, Analog RGB (VGA)
- » LVDS panel connection @60Hz refresh rate
- » RS-232 (Serial), Infra-red remote control, External buttons

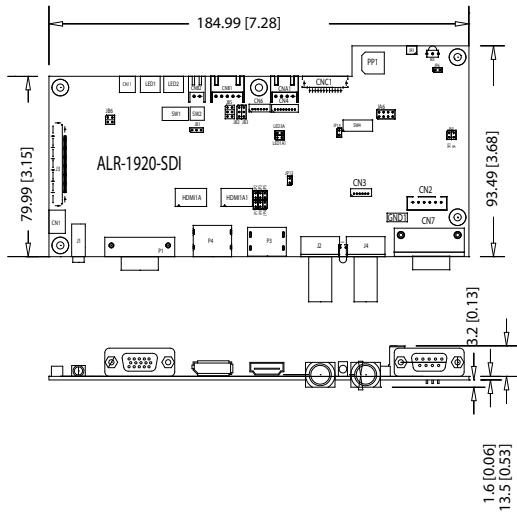
## Panel Connection

**LVDS (2 channel):** up to 1920 x 1200 @60Hz

**Panel resolutions:** Most standard & custom resolutions up to 1920 x 1200

## Input Signal

<b>HDMI</b>	60Hz up to 1920 x 1200
<b>Displayport</b>	60Hz up to 1920 x 1200
<b>ARGB (VGA)</b>	60Hz up to 1920 x 1200
<b>3G-SDI / HD-SDI</b>	60Hz up to 1920 x 1200



## Functions:

## Display: On Screen Display (OSD)

**Controls:** External buttons, Infra-Red, Serial  
RS-232

**Image Control:** Auto configuration, Brightness, Contrast, Clock, Phase, Color temperature, Image position, Gamma, Sharpness.

**Other:** Auto picture setup, Auto RGB calibration, Auto source seek, OSD timeout, OSD position, OSD menu rotation, OSD transparency, Select input source, Volume control, Load factory defaults

## Accessories

OSD Digital Button Board	Kit 67110-3
OSD Vertical Membrane	Kit 67135-3
OSD Horizontal Membrane	Kit 67134-3
Inverter Interface board	P/N 416040010-3
IR Remote Control	P/N 559000106-3

## Specifications - other:

**Colors:** 8 bit input / 8 bit panel support

**Panel Power:** 3.3V, 5V, 12V, 18V

**Input Power:** 12VDC +/- 5%, 10W

**Inverter Support:** DPMS enable (12V or 5V), PWM

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

**Status indicator:** Dual color LED support

**MTBF:** over 100,000 hours

RoHS compliant: Yes

## On the Website

[digitalview.com/products/alr-1920-sdi-lcd-controller](http://digitalview.com/products/alr-1920-sdi-lcd-controller)



## ALR-1400v2

Part No : 4175800xx-3



**The ALR-1400v2 is a compact LCD controller supporting LCD panels up to 1440 x 900 resolution with TTL and LVDS connection**

### Features:

- » Up to 1366 x 768 input, 8 bit / Up to 1440 x 900 LCD panels, 8 bit
- » DVI-D, Analog RGB (VGA)
- » LVDS & TTL panel connection @60Hz refresh rate
- » RS-232 (Serial), External buttons

### Panel Connection

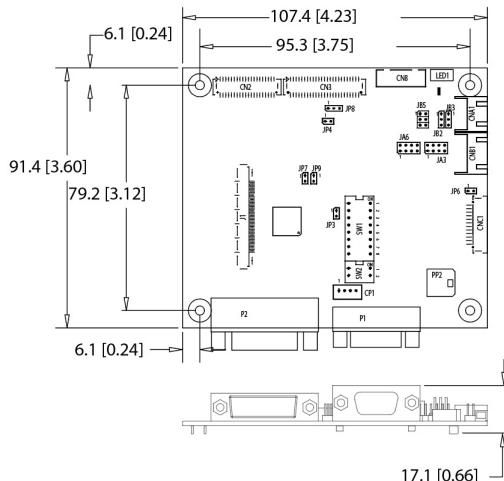
<b>LVDS (2 channel)</b>	up to 1440 x 900 @60Hz
<b>TTL</b>	up to 1440 x 900 @60Hz

<b>Panel resolutions</b>	Most standard & custom resolutions up to 1440 x 900
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### Input Signal

<b>DVI-D</b>	60Hz up to 1366 x 768
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<b>ARGB (VGA)</b>	60Hz up to 1366 x 768
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## Functions

**Display:** On Screen Display (OSD)

**Controls:** External buttons, Serial RS-232

**Image Control:** Brightness, Contrast, Sharpness, Clock, Phase, Color temperature, Image position, Gamma.

**Other:** Auto image adjust, Color auto adjust, Auto source seek, Input source select, Aspect ratio, OSD timeout, OSD menu position, OSD menu transparency.

## Accessories

OSD Digital Button Board Kit 67110-3  
OSD Vertical Membrane Kit 67121-3  
OSD Horizontal Membrane Kit 67134-3  
Inverter Interface Board P/N 416040010-3

## Specifications - other:

**Colors:** 8 bit input / 8 bit panel support

**Panel Power:** 3.3V, 5V, 12V, 18V

**Input Power:** 12VDC /24 VDC +/- 5%, 10W

**Inverter Support:** DPMS enable (3.3V or 5V), PWM

**Plug & Play:** PDC 1.2/b compatible

**Status indicator:** Dual color LED support

**MTBF:** over 100,000 hours

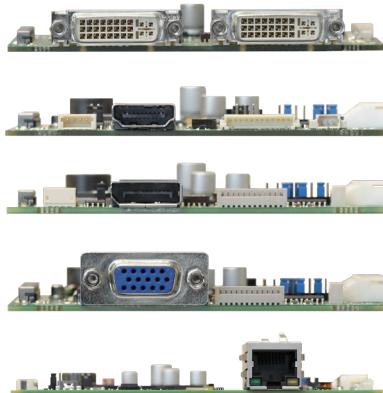
RoHS compliant: Yes

## On the Website

[digitalview.com/products/alr-1400v2-lcd-controller](http://digitalview.com/products/alr-1400v2-lcd-controller)



## DD-1920 Family



New 4mm  
thin model  
with HDMI

**The DD-1920 family are single input format controllers for LCD panels up to 1920 x 1200 resolution**

### Features:

- » Models supporting inputs: DVI, HDMI, Displayport, VGA, HD-BaseT
- » Up to 1920 x 1200 input, 8 bit / Up to 1920 x 1200 LCD panels, 8 bit
- » LVDS panel connection @60Hz refresh rate
- » RS-232 (Serial), Infra-red remote control, External buttons

### Panel Connection

**LVDS (2 channel)** up to 1920 x 1200 @60Hz

**Panel resolutions** Most standard & custom resolutions up to 1920 x 1200

**Input Signal** 60Hz up to 1920x1200

**DD-1920-Dual-DVI** DVI x 2

**DD-1920-HDMI** HDMI

**DD-1920-DP** Displayport

**DD-1920-VGA** VGA

**DD-1920-HDBT** HD-BaseT

**DD-1920-HDMI-T** Micro HDMI

Model	Part No.	Size (L x W x H) mm
DD-1920-Dual-DVI	4173900xx-3	107.4 x 73.6 x 13.55
DD-1920-HDMI	4173001xx-3	91.44 x 62.69 x 13.8
DD-1920-DP	4174900xx-3	93.02 x 63.77 x 13.8
DD-1920-VGA	4174300xx-3	91.44 x 62.69 x 13.8
DD-1920-HDBT	4175000xx-3	107.44 x 91.44 x 13.8
DD-1920-HDMI-T	4175700xx-3	91.4 x 91.4 x 4.0

## Functions:

**Display:** On Screen Display (OSD)  
**Controls:** External buttons, Infra-Red, Serial RS-232  
**Image Control:** Brightness, Contrast, Color temperature, Gamma, Sharpness  
**Other:** Auto source seek, OSD timeout, OSD position, OSD menu rotation, OSD transparency

## Accessories

OSD Digital Button Board	Kit 67110-3
OSD Vertical Membrane	Kit 67135-3
OSD Horizontal Membrane	Kit 67134-3
Inverter Interface board	P/N 416040010-3
IR Remote Control	P/N 559000106-3

## Specifications - other:

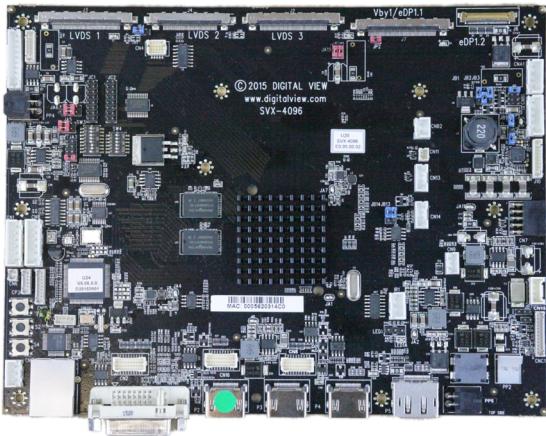
**Colors:** 8 bit input / 8 bit panel support  
**Panel Power:** 3.3V, 5V, 12V  
**Input Power:** 12VDC +/- 5%, 10W  
**Inverter Support:** DPMS enable (3.3V or 5V), PWM  
**Plug & Play:** DDC 1, 2/b compatible  
**Status indicator:** Dual color LED support  
**MTBF:** over 100,000 hours  
**RoHS compliant:** Yes  
**Warranty:** 3 Years

## On the Website

[digitalview.com/products/dd-1920-dual-dvi-lcd-controller](http://digitalview.com/products/dd-1920-dual-dvi-lcd-controller)  
[digitalview.com/products/dd-1920-hdmi-lcd-controller](http://digitalview.com/products/dd-1920-hdmi-lcd-controller)  
[digitalview.com/products/dd-1920-dp-lcd-controller](http://digitalview.com/products/dd-1920-dp-lcd-controller)  
[digitalview.com/products/dd-1920-vga-lcd-controller](http://digitalview.com/products/dd-1920-vga-lcd-controller)  
[digitalview.com/products/dd-1920-hdbt-lcd-controller](http://digitalview.com/products/dd-1920-hdbt-lcd-controller)  
[digitalview.com/products/dd-1920-hdmi-t-lcd-controller](http://digitalview.com/products/dd-1920-hdmi-t-lcd-controller)

# HX-4096

Part No : 4175501xx-3



**The SVX-4096 is an advanced controller supporting LCD & OLED panels up to 4096 x 2160 resolution**

## Features:

- » Up to 4096 x 2160 input, 10 bit / Up to 4096 x 2160 LCD panels, 10 bit
- » HDMI 2.0, HDMI 1.4, Displayport 1.2, DVI-I Dual Link
- » V-by-One, eDP, LVDS panel connection @60Hz/120Hz
- » Full frame memory buffer for enhanced image control
- » Ethernet, RS-232, Infra-red remote control, External buttons

## Panel Connection

**V-by-One (8 channel)** up to 4096 x 2160 @60Hz  
add IE-2000 for 120Hz

**eDP (HBR/HBR2)** up to 4096 x 2160 @60Hz

**LVDS (8 channel)** up to 4096 x 2160 @60Hz

**Panel resolutions** 4096 x 2160, 3840 x 2160,  
2560 x 1440/1600  
1920 x 1200, 1920 x 1080

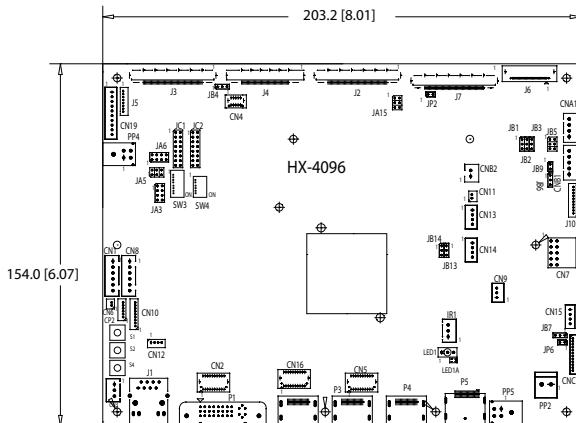
## Input Signal

**HDMI 2.0** 60Hz up to 4096 x 2160  
75Hz up to 1600 x 1200

**HDMI 1.4** 30Hz up to 4096 x 2160  
60Hz up to 2560 x 1600  
75Hz up to 1600 x 1200

**Displayport 1.2** 60Hz up to 4096 x 2160  
75Hz up to 1600 x 1200

**DVI-I Dual Link** 30Hz up to 4096 x 2160  
60Hz up to 2560 x 1600  
75Hz up to 1600 x 1200



## Functions

**Display:** On Screen Display (OSD)

**Controls:** External buttons, Infra-Red, Serial RS-232, Ethernet

**Image Control:** Brightness, Contrast, Color Temperature, Image position, Saturation, Hue, Sharpness, Up/Down scaling to fit input to panel resolution

**Other:** System information, Scaling to fill screen and fill to aspect ratio, Programmable hotkeys, Factory reset, Picture in Picture (PiP), Picture by Picture (PbP), Ambient light sensor support, Enable frame buffer for FRC image enhancement, OSD menu transparency, DDC-CI support

## Accessories

IE-2000, for 120Hz panels	P/N 4175600XX-3
Inverter interface board	[subject to panel]
IR remote control	P/N 559000106-3
OSD digital button board	Kit 67110-3
OSD membrane kit - Ver	Kit 67134-3
OSD membrane kit - Hor	Kit 67135-3
3G-SDI adaptor, HD-3000	P/N 416016040-3
Audio Add-on board	P/N 416940020-3

Note: Suitability for use in critical applications must be independently tested and verified by the user.

## Harsh Environment Features

## Ceramic Capacitors

## Locking Connectors for Vibration Tolerance

Operating Compliance from -40°C to 80°C

## Humidity Resistant Silicon Conformal Coating

## Specifications - other

**Colors:** 10 bit input / 10 bit panel support

**Panel Power:** 3.3V, 5V, 10V, 12V, 18V

**Input Power:** 12VDC /24 VDC +/- 5%, 10W

## Invert

## PWM

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

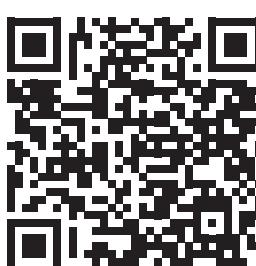
### Status indicator: Dual color

**MTBF:** over 100,000 h

RoHS compliant:

#### On the Website

[digitalview.com/products/by-4006-led-controller](http://digitalview.com/products/by-4006-led-controller)



# HX-1920v3

Part No : 4174801xx-3



**The HX-1920v3 is an advanced controller supporting LCD panels up to 1920 x 1200 resolution. It replaces the SVX-1920**

#### Features:

- » Up to 1920 x 1200 input, 10 bit / Up to 1920 x 1200 LCD panels, 10 bit
- » Analog RGB (VGA), HDMI, DVI-D, Component
- » LVDS panel connection @60Hz refresh rate
- » Full frame memory buffer for enhanced image control
- » Ethernet, RS-232 (Serial), Infra-red remote control, External buttons

#### Panel Connection

**LVDS (2 channel)** up to 1920 x 1200 @60Hz  
\*add IE-1010 for 120Hz

**Panel resolutions** Most standard & custom resolutions up to 1920 x 1200

#### Input Signal

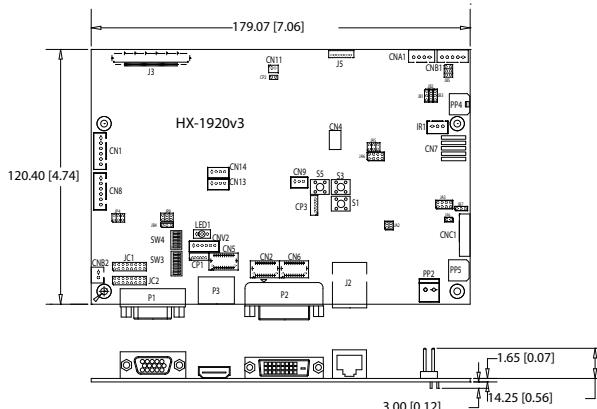
**HDMI 1.4** 60Hz up to 1920 x 1200  
75Hz up to 1280 x 1024

**DVI-D** 60Hz up to 1920 x 1200  
75Hz up to 1280 x 1024

**ARGB (VGA)** 60Hz up to 1920 x 1200  
75Hz up to 1280 x 1024

**Component** 720p, 1080i, 1080p

**3G-SDI** \*available as an option with HD-3000S add-on board



## Functions:

## Display: On Screen Display (OSD)

**Controls:** External buttons, Infra-Red, Serial RS-232, Ethernet

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

**Other:** System Information, OSD position, Scaling to fill screen and fill to aspect ratio, OSD timeout, Factory reset, Image flip, Picture in Picture variable position with 18 size selections and Picture by Picture, Programmable hot keys. Support for options such as ambient light sensor

## Accessories

3G-SDI Adaptor HD-3000S P/N 4160164xx-3  
Inverter Interface Board P/N 416040010-3

IR Remote Control	P/N 559000106-3
OSD Button Board	Kit 67110-3
OSD Membrane Kit Hor	Kit 67134-3
OSD Membrane Kit Ver	Kit 67135-3
Power Input Cable	P/N 426013800-3
Power Supply	Kit 80100-3
AVD-1000 analog video	Kit 71300-3

## Harsh Environment Features

- » Ceramic Capacitors
- » Locking Connectors for Vibration Tolerance
- » Silicon Conformal Coating
- » Operating Compliance from -40°C to 80°C

## Specifications - other:

**Colors:** 10 bit input / 10 bit panel support

**Panel Power:** 3.3V, 5V, 12V, 18V

**Input Power:** 12VDC /24 VDC +/- 5%, 10W

Invert

## PWM

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

### Status indicator: Dual color

**MTBF:** over 100,000 h

RoHS compliant:

#### On the Website

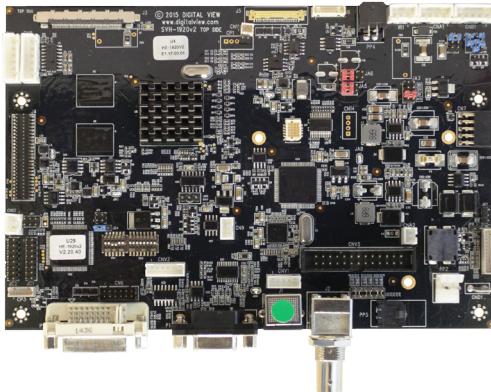
[digitalview.com/products/bx-1020v3-led-controller](http://digitalview.com/products/bx-1020v3-led-controller)



Note: Suitability for use in critical applications must be independently tested and verified by the user.

# HE-1920v2

Part No : 4175201xx-3



**The HE-1920v2 is an advanced controller supporting LCD panels up to 1920 x 1200 resolution. It replaces the SVH-1920**

#### Features:

- » Up to 1920 x 1200 input, 10 bit / Up to 1920 x 1200 LCD panels, 10 bit
- » DVI-I (DVI-D & VGA2), Analog RGB (VGA) / Component, S-Video, Composite
- » LVDS panel connection @60Hz refresh rate
- » Full frame memory buffer for enhanced image control
- » RS-232 (Serial), Infra-red remote control, External buttons

#### Panel Connection

**LVDS (2 channel)** up to 1920 x 1200 @60Hz  
\*add IE-1010 for 120Hz

**eDP (HBR)** up to 1920 x 1200 @60Hz

**Panel resolutions** Most standard & custom resolutions up to 1920 x 1200

#### Input Signal

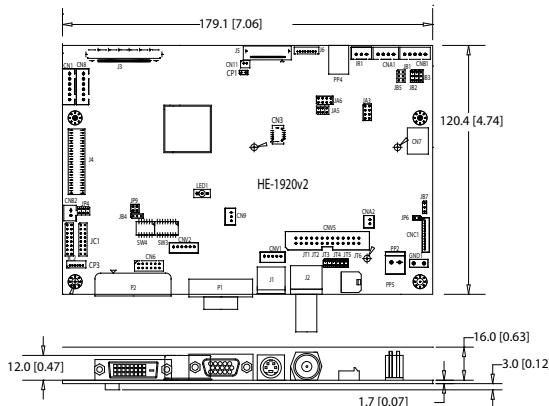
**DVI-D Single Link** 60Hz up to 1920 x 1200  
75Hz up to 1280 x 1024

**ARGB (VGA)** 60Hz up to 1920 x 1200  
75Hz up to 1280 x 1024

**Component** 720p, 1080i, 1080p

**Video** PAL / NTSC / SECAM

**HD-SDI** \*available as an option with HD-1000/HD-2000 add-on boards



## Functions

**Display:** On Screen Display (OSD)

**Controls:** External buttons, Infra-Red, Serial RS-232

**Image Control:** Brightness, Contrast, Color Temperature, Image position, Saturation, Hue, Sharpness, Up/Down scaling to fit input to panel resolution

**Other:** 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 (PiP) variable position & any input combination (18 sizes), Picture by Picture, Programmable hot keys, Serial port protocol, Ambient light sensor support

## Accessories

OSD Digital Button Board	Kit 67110-3
OSD Vertical Membrane	Kit 67135-3
OSD Horizontal Membrane	Kit 67134-3
Inverter Interface Board	P/N 416040010-3
Audio Amplifier	P/N 416940020-3
IR Remote Control	P/N 559000106-3
IE-1010, for 120Hz panels	P/N 4172900xx-3
HD-1000 HD-SDI 1 ch	P/N 4160134xx-3
HD-2000 HD-SDI 2 ch	P/N 4160133xx-3

Note: Suitability for use in critical applications must be independently tested and verified by the user.

## Harsh Environment Features

- » Ceramic Capacitors
- » Locking Connectors for Vibration Tolerance
- » Silicon Conformal Coating
- » Operating Compliance from -40°C to 80°C

## Specifications - other

**Colors:** 10 bit input / 10 bit panel support

**Panel Power:** 3.3V, 5V, 12V, 18V

**Input Power:** 12VDC +/- 5%, 10W

**Inverter Support:** DPMS enable (3.3V or 5V), PWM

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

**Status indicator:** Dual color LED support

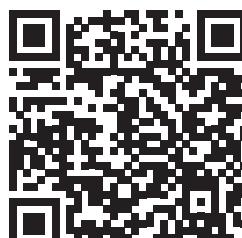
**MTBF:** over 100,000 hours

**RoHS compliant:** Yes

**Warranty:** 3 Years

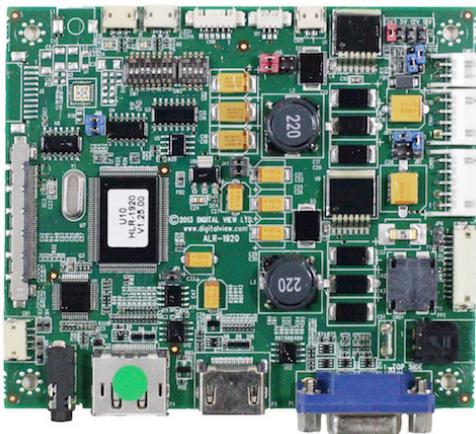
## On the Website

[digitalview.com/products/he-1920v2-lcd-controller](http://digitalview.com/products/he-1920v2-lcd-controller)



# HLR-1920

Part No : 4172700xx-3



**The HLR-1920 is a compact controller for LCD panels up to 1920 x 1200 with HDMI, Displayport & ARGB inputs**

#### Features:

- » Up to 1920 x 1200 input, 8 bit / Up to 1920 x 1200 LCD panels, 8 bit
- » HDMI, Displayport, Analog RGB (VGA)
- » LVDS panel connection @60Hz refresh rate
- » RS-232 (Serial), Infra-red remote control, External buttons

#### Panel Connection

**LVDS (2 channel)** up to 1920 x 1200 @60Hz

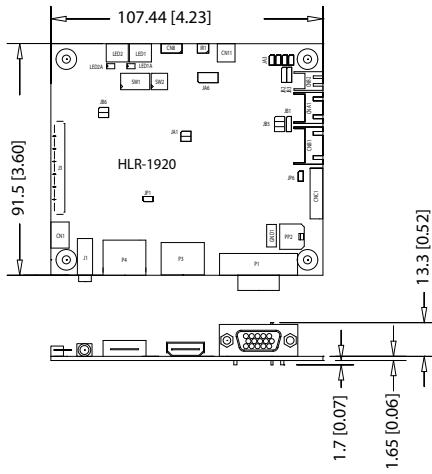
**Panel resolutions** Most standard & custom resolutions up to 1920 x 1200

#### Input Signal

**HDMI** 60Hz up to 1920 x 1200

**Displayport** 60Hz up to 1920 x 1200

**ARGB (VGA)** 60Hz up to 1920 x 1200



## Functions:

- Display: On Screen Display (OSD)
- Controls: External buttons, Infra-Red, Serial RS-232
- Image Control: Brightness, Contrast, Sharpness, Clock, Phase, Color temperature, Image position, Gamma, Sharpness
- Other: Auto picture setup, Auto RGB calibration, Auto source seek, OSD timeout, OSD position, OSD menu rotation, OSD transparency, Select input source, Volume control, Load factory defaults

## Accessories

- OSD Digital Button Board Kit 67110-3
- OSD Vertical Membrane Kit 67135-3
- OSD Horizontal Membrane Kit 67134-3

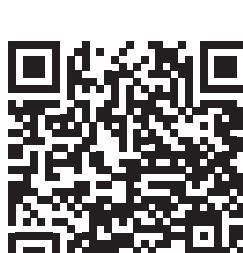
- Inverter Interface board P/N 416040010-3
- IR Remote Control P/N 559000106-3

## Harsh Environment Features

- Ceramic Capacitors
- Locking Connectors for Vibration Tolerance
- Silicon Conformal Coating
- Operating Compliance from -40°C to 80°C
- Colors: 8 bit input / 8 bit panel support
- Panel Power: 3.3V, 5V, 12V, 18V
- Input Power: 12VDC +/- 5%, 10W
- Inverter Support: DPMS enable (3.3V or 5V), PWM
- Plug & Play: DDC 1, 2/b compatible
- Status indicator: Dual color LED support
- MTBF: over 100,000 hours
- RoHS compliant: Yes
- Warranty: 3 Years

## On the Website

[digitalview.com/products/hlr-1920-lcd-controller](http://digitalview.com/products/hlr-1920-lcd-controller)



Note: Suitability for use in critical applications must be independently tested and verified by the user.

# HE-1400v2

Part No : 4176100xx-3



**The HE-1400v2 is a compact LCD controller supporting LCD panels up to 1440 x 900 resolution with TTL and LVDS connection**

#### Features:

- » Up to 1366 x 768 input, 8 bit / Up to 1440 x 900 LCD panels, 8 bit
- » DVI-D, Analog RGB (VGA)
- » LVDS & TTL panel connection @60Hz refresh rate
- » RS-232 (Serial), External buttons

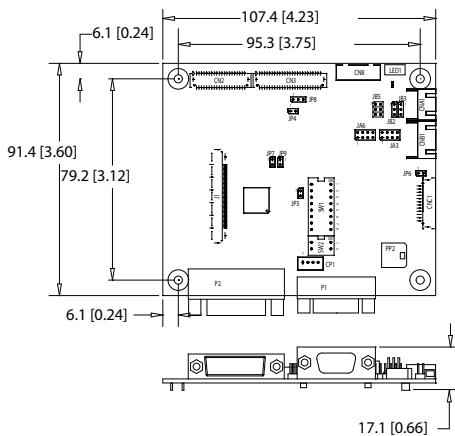
#### Panel Connection

LVDS (2 channel)	up to 1440 x 900 @60Hz
TTL	up to 1440 x 900 @60Hz

Panel resolutions	Most standard & custom resolutions up to 1440 x 900
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#### Input Signal

DVI-D	60Hz up to 1366 x 768
ARGB (VGA)	60Hz up to 1366 x 768



## Functions:

## Display: On Screen Display (OSD)

**Controls:** External buttons, Serial RS-232

**Image Control:** Brightness, Contrast, Sharpness, Clock, Phase, Color temperature, Image position, Gamma.

**Other:** Auto image adjust, Color auto adjust, Auto source seek, Input source select, Aspect ratio, OSD timeout, OSD menu position, OSD menu transparency.

## Accessories

OSD Digital Button Board  
OSD Vertical Membrane  
OSD Horizontal Membrane  
Inverter Interface Board

Kit 67110-3  
Kit 67121-3  
Kit 67134-3  
P/N 416040010-3

## Harsh Environment Features

- » Ceramic Capacitors
- » Locking Connectors for Vibration Tolerance
- » Silicon Conformal Coating
- » Operating Compliance from -40°C to 80°C

## Specifications - other:

**Colors:** 8 bit input / 8 bit panel support

**Panel Power:** 3.3V, 5V, 12V, 18V

**Input Power:** 12VDC +/- 25%, 10W

**Inverter Support:** DPMS enable (3.3V or 5V),  
PWM

**Plug & Play:** PDC 1.2/b compatible

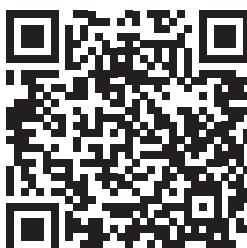
**Status indicator:** Dual color LED support

**MTBF:** over 100,000 hours

RoHS compliant: Yes

## On the Website

[digitalview.com/products/he-1400v2-lcd-controller](http://digitalview.com/products/he-1400v2-lcd-controller)



Note: Suitability for use in critical applications must be independently tested and verified by the user.

## HDD-1920

HDMI header - Part #: 4173003xx-3  
HDMI connector - Part #: 4173002xx-3  
Dual DVI - Part #: 4173902xx-3



**The HDD-1920 is a single input format controller for LCD panels up to 1920 x 1200 resolution**

### Features:

- » Modified version of DD-1920 for harsher environments
- » Up to 1920 x 1200 input, 8 bit / Up to 1920 x 1200 LCD panels, 8 bit
- » LVDS panel connection @60Hz refresh rate
- » RS-232 (Serial), Infra-red remote control, External buttons

### Panel Connection

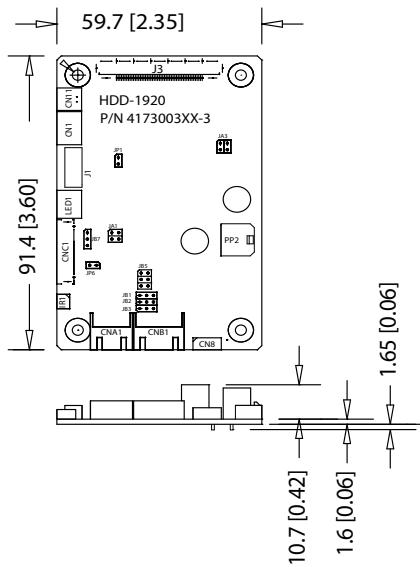
**LVDS (2 channel)** up to 1920 x 1200 @60Hz

**Panel resolutions** Most standard & custom\* resolutions up to 1920 x 1200

### Input Signal

**HDMI (header)** 60Hz up to 1600 x 1200

\* Contact us for custom engineering



## Harsh Environment Features

- » Tantalum Capacitors
- » Locking Connectors for Vibration Tolerance
- » Silicon Conformal Coating
- » Operating Compliance from -40°C to 80°C

## Specifications - other:

**Colors:** 8 bit input / 8 bit panel support

**Panel Power:** 3.3V, 5V, 12V

**Input Power:** 12VDC +/- 5%, 10W

**Inverter Support:** DPMS enable (3.3V or 5V), PWM

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

**Status indicator:** Dual color LED support

**MTBF:** over 100,000 hours

**RoHS compliant:** Yes

**Warranty:** 3 Years

## On the Website

[digitalview.com/products/hdd-1920-lcd-controller](http://digitalview.com/products/hdd-1920-lcd-controller)



## Functions

**Display:** On Screen Display (OSD)

**Controls:** External buttons, Infra-Red, Serial RS-232

**Image Control:** Brightness, Contrast, Color temperature, Gamma, Sharpness

**Other:** Auto source seek, OSD timeout, OSD position, OSD menu rotation, OSD transparency

## Accessories

OSD Digital Button Board Kit 67110-3

OSD Vertical Membrane Kit 67135-3

OSD Horizontal Membrane Kit 67134-3

Inverter Interface board P/N 416040010-3

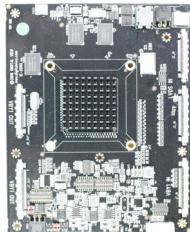
IR Remote Control P/N 559000106-3

Note: Suitability for use in critical applications must be independently tested and verified by the user.

# Accessories

Digital View provides a comprehensive range of accessories to complement most controllers. We provide solutions to enhance user interface, aid in remote problem solving, enable system differentiation and customization. More importantly, these accessories enable customers to build a better product solution.

Please see more information at [www.digitalview.com/products/lcd-controller-accessories](http://www.digitalview.com/products/lcd-controller-accessories)



## IE-2000, IE-1010

IE-1010 adds support for 10-bit, 120 Hz LCD panels up to 1920 x 1200 for controller models SVX-1920v3 and SVH-1920v2. In addition the IE-1010 supports image flip/invert function.

IE-2000 is designed for the SVX-4096 and adds support for 120Hz panels with V-by-One connectivity.

IE-1010 P/N 4172900xx-3

IE-2000 P/N 4175600xx-3



AVD-1000 | KIT-71300-3

HVD-1000 | KIT-71301-3

The AVD-1000 features two Composite video and two S-video inputs. It can also be custom assembled with four Composite inputs. There is also an HDMI output, type A connector, enabling stand-alone use. When used with a Digital View LCD controller, the OSD menu and Ethernet/RS-232 command set will provide input selection and other related functions.

The HVD-1000 is a Harsh Environment version.



## HD-1000 & HD-2000

High-Definition - Serial Digital Interface adaptors enable the Digital View SVH-1920 LCD controller to support single or dual HD-SDI connections, thus providing a highly featured alternative to expensive HD-SDI monitors or external adaptor devices. Fully compliant with the SMPTE 259M-C and SMPTE 292M standards.

Single Channel      HD-1000 P/N 4160134xx-3

Dual Channel      HD-2000 P/N 4160133xx-3



## HD-SDI to HDMI Adaptor

Adaptor for use with the HD-2000 and SVX-1920

Board Only P/N 4160167xx-3

Kit 70601-3



## HD-3000S & HD-3000

Single & Dual Channel HD-SDI Adapter

1. Supports 1.5Gbits & 3Gbits bit rate
2. Single channels input port supported
3. HD-SDI re-clock loop through output
4. HDMI (v1.3) x 1 output port
5. Stereo embedded audio support
6. On-board power on/off switch
7. AFD (Active Format Description) support
8. Fully compliant with SMPTE 292M, 259M-C, 424M, 425M.

Single Channel      HD-3000S P/N: 4160164xx-3

Dual Channel      HD-3000 P/N: 4160160xx-3



## HD-3000-SF

In addition to the standard BNC connectors, the HD-3000-SF also supports a standard SFP fiber module providing distance driving – so far verified over 1.5km.

HD-3000-SF

P/N 4160177xx-3



## DisplayMark II

DisplayMark II provides independent validation that a monitor is currently displaying the requested signal. Utilizing a combination of pattern recognition combined with signal validation, the DM-II add-on board provides positive confirmation on a timed or interrogation basis through either the serial or network port.



## GreenPower II | Ask for details

The small footprint design of the Green Power board can be used with any Digital View controller to power down the system with less than 0.1W power consumption when in standby mode.



## IP-60v2 | P/N 4160137xx-3

The IP-60 is a network device that allows you to control RS-232 enabled devices over a TCP/IP based Ethernet and the Internet using a web browser.

The IP-60 features an embedded Web Console Program (WCP) that allows developers to change command settings and make their own web pages.



## Status Monitor Board | Ask for details

This device monitors the tachometers of two fans, an onboard temperature sensor and the voltage output of two power supplies. This information is then reported to the LCD controller on the I2c bus and then the state of these parameters can be read over a network or from the serial port.



## Audio Add-on board | Ask for details

An easy to use accessory to add audio capability directly to your display system.



### Autobrite+ | KIT-70307-3

Designed to work with any Digital View controller, this board provides auto-adjustment to the controllers backlight level (value 10-100) to match the brightness coming into the sensor. Monitoring the levels every 10 seconds, the Autobrite+ communicates with the controller through the serial port while allowing parallel communication of serial commands to the controller through the board. The four available outputs allow support for additional controllers.



### IR/LED Board | P/N 416015300-3 (Kit 70221-3)

The IR board is one of those small accessories that sometimes gets overlooked but plays a valuable role. This board is designed to be integrated on the inside of an enclosure with suitable access holes. The IR receiver is used for the On Screen Display (OSD) menu of Digital View display interface controllers and works with the Digital View remote control. The LED is the controller power indicator.



### IR Remote Control | P/N 5590001xx-3

The Digital View Remote control unit is compatible with all DV controller products. It is provided with universal control buttons that enable the control of OSD functions plus TV and media playback on DV media products. The IR sensor and cable kit is required.

### IR Control Device

This new IR control device provides a method of having single button port selections from the IR remote. For example, #1 always selects the DVI port while #4 selects the Composite 1 port.

## COMING SOON

### Smart Chassis

Designed for larger panels, e.g. 55" to 98", used in indoor or outdoor digital signage applications the Digital View smart chassis makes integration, telemetry and display system control easy.

### USB Switcher

Working alongside Digital View LCD controllers the USB switcher mirrors input source switching to match touch panels with laptops and other input devices.



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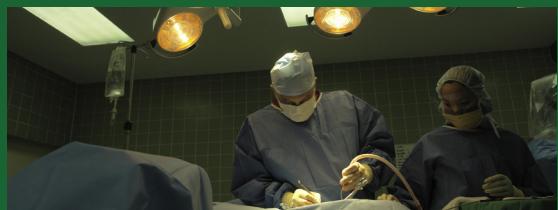
[www.digitalview.com](http://www.digitalview.com)

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Details subject to change without notice