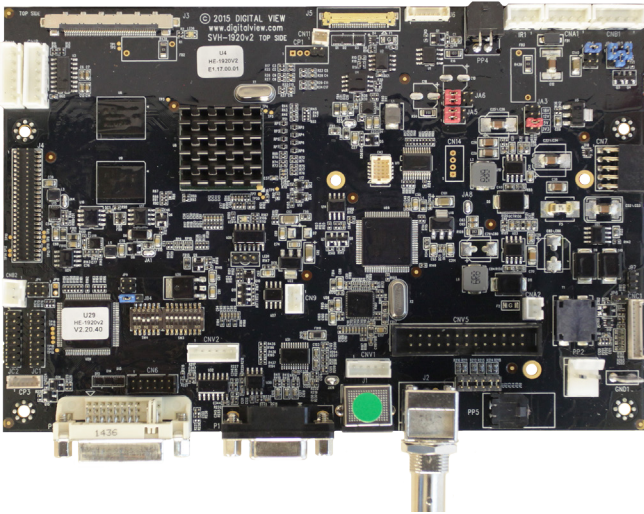


## HE-1920v2

### Harsh Environment LCD Controller



**Key Features :**

- > 10 bit color support
- > Updated LVDS connectors
- > eDP panel support
- > 18 PiP options
- > Harsh environment

The HE-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 WUXGA resolution. Featuring full screen image expansion of lower resolutions, image flip and invert function and onscreen PIP functions, the HE-1920v2 also supports an optional High-Definition Serial Digital Interface ( HD-SDI ) adaptor for professional and broadcast video applications.

The HE-1920v2 is part of DigitalView’s “Professional Class” video controller family featuring advanced capabilities, support and custom development paths for OEM clients.

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

\*Option: Custom Resolution Supported

Input	
<b>Analog RGB:</b>	60Hz at UXGA 74Hz 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
<b>DVI-D:</b>	60Hz at WUXGA 60Hz at UXGA
<b>Video:</b>	75Hz at SXGA, WXGA, XGA, SVGA, VGA NTSC / PAL / SECAM ( Interlaced ) Composite Video, S-Video, RGB Video SD Component ( YCrCb )

Options
HD-SDI Daughter board. IR Remote, 2W per channel Audio amplifier

Reliability
Calculated Mean Time Between Failures In excess of 200,000 hours. Warranty: 3 years.

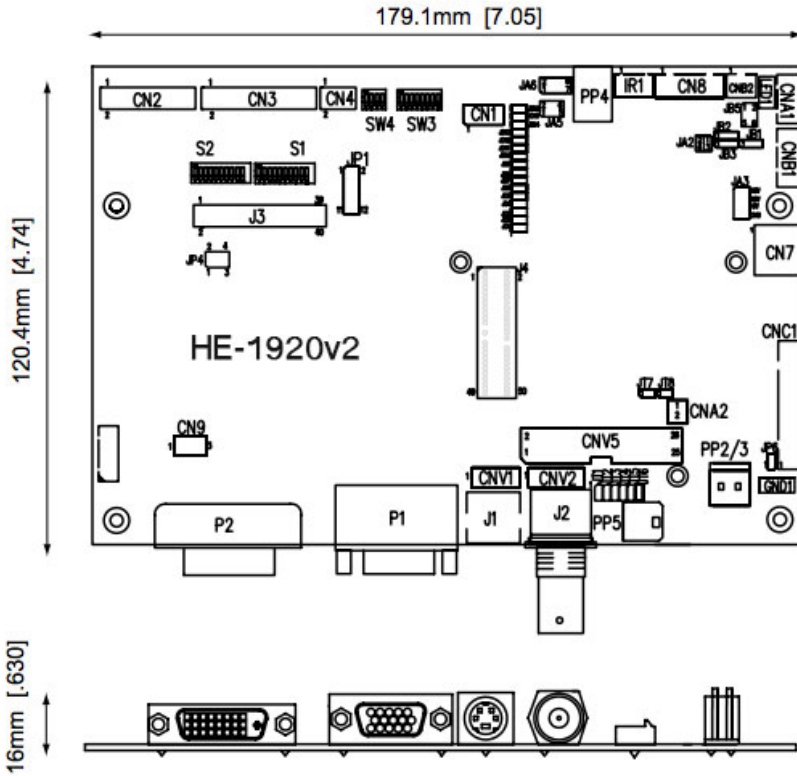
Features	
<b>Colors:</b>	Up to 8 bit per color, 16.7 million colors
<b>Functions :</b>	On Screen Display (OSD) menu
<b>Function Controls:</b>	External buttons, Infra-Red controls, Serial Port control
<b>Image Scaling :</b>	Up scaling to fit input to panel resolution
<b>Image Control :</b>	Auto configuration, Brightness, Contrast, Clock, Phase, Color temperature, Image position, Saturation, Hue, 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
<b>Power:</b>	+12VDC ±25%, 10W (controller only)
<b>Panel Power:</b>	Supports 3.3V, 5V & 12V & 18V panels
<b>Panel Signal:</b>	Dual Channel TTI & LVDS Support
<b>Inverter Support:</b>	DPMS Enable pin (3.3V or 5V), Analog or PWM brightness control, serial port controller brightness
<b>Plug &amp; Play:</b>	DDC 1,2/b compatible
<b>Status Indicator:</b>	Dual color LED support
<b>Operating Temp:</b>	-40°C to +80°C**
<b>Storage Temp:</b>	-40°C to +85°C
<b>Coating:</b>	Silicone resin conformal coating, ( MOD ) DEF-STAN 59/47 issue 4 & UL QMJU2 compliant.

\*Specifications subject to change

# HE-1920v2

## Harsh Environment LCD Controller

### Mechanical Drawing



### 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
- CNB2** Backlight status input connector
- CNC1** OSD Function Controls
- CNV1** Alternate Video-in
- CNV2** Component Video-in
- CNV5** Auxiliary Video-Input
- J1** S-Video in
- J2** Composite Video in
- J3** Panel Signal for LVDS Panel
- J4** HD-SDI Adaptor Board Interface connector
- IR1** Infra-Red Sensor Connector
- LED1** Dual color LED connector
- P1** VGA analog input
- P2** DVI-D input
- PP2/PP3** Power input ( alternative )
- PP4** External Panel Power Input
- PP5** Main Power input\*\*

### Ordering Options

HE-1920v2	P/N XXXXXXX-3
HD-SDI Adaptor ( HD-2000/HD-1000)	Kit 60110-3
OSD Digital Button Board	Kit 60110-3
OSD Vertical Membrane	Kit 60121-3
OSD Horizontal Membrane	Kit 60125-3
Inverter Interface board	P/N 416040010-3
IR Remote Control	P/N 559000104-3
Audio Amplifier	P/N 416940020-3

### 3D Drawings (SLDPRT)

Save time and effort for your system volumetric analysis design. Includes jpg file previews.

Please download at:  
[www.digitalview.com/products/he1920v2-lcd-controller](http://www.digitalview.com/products/he1920v2-lcd-controller)

### Available Resources

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

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

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