

**VP10 Video Processor**

- Digitizes computer-generated video sources
- Drives commercial AMLCD's and Inverters
- Adjustments and re-configuration in-the-field via utility software
- Supports up to 1920x1200 (WUXGA) displays
- Supports windowing, frame rate conversion, re-sizing, color conversions
- Unlimited zoom/shrink
- Standard Inputs: TMDS (2 channels), Analog VGA, Svideo, component, composite
- Standard Outputs: Parallel Digital or LVDS (single and dual channel)
- Non-Interlaced, Interlaced RGB I/O
- Dimensions (approx.): 4.9"x 5.9"
- RoHS compliant

The VP10 Video Processing Module provides direct connection from analog video sources to a wide range of commercial digital AMLCD display modules.

**Features:** Based on state-of-the-art image processing technology, the VP10 capabilities include:

- digitization of computer-generated video sources with separate syncs or sync-on-green
- non-interlaced and interlaced RGB inputs and outputs
- digitization and de-interlacing of consumer video formats, including NTSC and PAL (with optional mezzanine board)
- frame rate conversion
- independent horizontal and vertical scaling
- programmable image position within larger background area for both input and output
- incoming video gain and offset adjustments
- programmable power sequencing to panel
- fine phase clock adjustment for pixel sampling
- image can be reversed left to right
- image can be flipped top to bottom
- interfaces to most common inverters
- remote interface for both set-up and operational control

**One size fits all?** Your customers have a wide range of video formats and special video requirements. You want a single video adapter that you can configure to work across a wide range of applications, minimizing new design work and sparing requirements.

**Westar has the Solution!**

**VP10 customers receive Westar's powerful VP10 Configuration utility. This utility allows you to:**

- configure a VP10 for a unique application,
- change the Built-In Operating System (BIOS) to account for a new video requirement or a new target display,
- make adjustments to optimize the VP10 for a particular installation,
- and much more (see reverse side for more details)

*If this sounds confusing, don't worry, our support team will help you master the configuration utility, or we can set up the VP10 for you at the factory!*

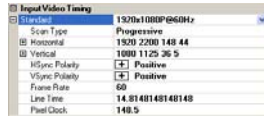
**VP10 Operation**

Typically, the VP10 operates as follows:

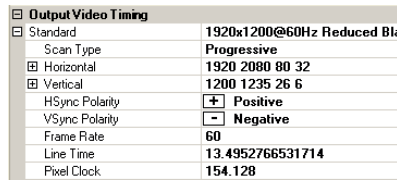
1. Upon power up, the VP10 configures itself based on its internal BIOS
2. When a valid video signal is detected, the VP10 applies power to the display per the power sequencing defined in the set-up BIOS.
3. When loss of video is detected, the display can: power down, drive a pre-defined color (blue-screen), or some other function as defined in the BIOS created with the configuration utility.

**How to get started**

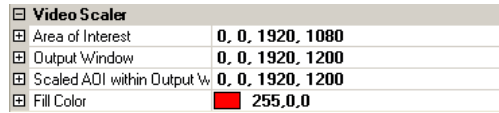
Please contact us at (636) 300-5164. We will discuss your requirements and respond with a quotation.



Step 1 Input Timing



Step 2 Output Timing



Step 3 Windowing and Scaling



Step 4 Power Sequence

Step	Function	Sets up...
1	Input	the input timing and electrical definitions
2	Output	the output timing and electrical definitions
3	Window/Scale	the areas of interest within the input image and the mapping to the output resolution, thereby defining windowing and scaling functions
4	Power Sequence	how to sequence power and video to the target display

**VP10 Configuration Utility:** The VP10 Configuration utility is supplied to VP10 customers. VP10configure is installed on Windows XP platforms, and connects to the VP10 via an available RS-232 serial cable.

The utility uses a 4-step process to set up the VP10 for your application.

<b>Physical Dimensions</b>	5.9" x 4.9" x 0.8"
<b>Temperature Range</b>	Operating: 0° C to +70° C; Storage: -40° C to +100° C
<b>Video Inputs</b>	Computer - Up to WUXGA resolutions @ 60Hz - Analog Input (162 MHz) DVI Input (165 MHz) - Standard and custom timing - Syncs (Digital Separate, Digital Composite, Analog Composite) - composite and Svideo in NTSC and PAL formats - component (Y, Pb, Pr)
<b>Video Outputs</b>	Parallel LVTTTL output in Single (24 bit panel) and Dual (48 bit) bus panels (up to 165 Mhz) LVDS output in Single LVDS outputs and Dual LVDS format (up to 87.5Mhz/link)
<b>Input Power</b>	+12 VDC, 1.5 Amp typical when driving XGA panel and inverter
<b>Control Interface</b>	RS-232
<b>Ordering Information</b>	VP10