Display Technologies
WESTAR
QinetiQ North America

Preliminary

EZscan[tm] Model II Universal Video Processor

Front View

Back View

I/O resolutions up to WUXGA

User-configurable as 1U rackmount or benchtop unit

EZscan[tm] II configuration utility supports user-defined:

- √ **input timing, Area-of-Interest, output timing**
- √ **border colors, image flips (left/right, top/bottom)**
- √ **Image rotation in 90 degree increments**

Dynamic controls via RS-232 and USB, including brightness, contrast, area-of-interest, etc.

Inputs: DVI-I standard (TMDS and Analog RGB), NTSC/PAL

Outputs: DVI-I standard (TMDS and Analog RGB), NTSC/PAL

Non-interlaced or interlaced (RS-170, RS-343) Analog RGB I/O

Features: Based on state-of-the-art image processing technology, the EZscan[tm] Model II capabilities include:

- conversion of computer-generated (DVI, RGB) and specialty (RS-343, RS-170, STANAG) video sources with separate syncs or sync-on-green
- digitization and de-interlacing of consumer video formats, including NTSC and PAL
- generation of monitor (DVI, RGB), TV (NTSC/PAL), and specialty (RS-343, RS170, STANAG) video
- frame rate conversion
- unlimited, independent horizontal and vertical scaling
- programmable image position within larger background area for both input and output
- incoming video gain and offset adjustments
- fine phase clock adjustment for pixel sampling
- image can be reversed left to right
- image can be flipped top to bottom
- image can be rotated in 90 degree increments
- remote interface for both set-up and operational control

Do you have a legacy video source that needs to be converted to a video format compatible with a new display or projector product?

Example: Your existing video source is 875 line RS-343. You need to convert to SXGA (1280 x 1024), where the original 1088 x 808 pixels of information in the source are mapped to a 1088 x 808 window within the SXGA output. Use Westar's EZscan[tm] Model II configuration utility to define the input timing, the output timing, and the area-of-interest (AOI) within the RS-343 source and where to map the AOI within the output resolution

Do you have a legacy display that needs to be interfaced to a standard PC video format?

Example: Your display requires 875 line RS-343. Your video source is a standard PC video card, generating SXGA (1280 x 1024) video. You want to map 1088 x 808 pixels of information in the source to a 875 line RS-343 interlaced output. Use Westar's EZscan[tm] Model II configuration utility to define the input timing, the output timing, and the area-of-interest (AOI) within the SXGA source and where to map the AOI to the RS-343 output

Unique Video Rotation Capability

EZscan[tm] Model II supports video rotation for the following applications: a) to drive displays mounted sideways, b) to rotate video from cameras mounted sideways, but viewed on standard monitors, and c) when video is rendered sideways for side-mounted projectors or displays, but then rotated back for viewing on standard monitors.

EZscan[tm] Model II Operation

After configuration, the EZscan[tm] Model II typically operates as follows:

1. Upon power up, the EZscan[tm] Model II configures itself based on its internal BIOS
2. Prior to detection of valid video, the EZscan[tm] Model II can drive a user-defined color to your display
3. When valid video is detected, the EZscan[tm] Model II converts the incoming video per the pre-defined settings contained in the BIOS
4. When video is lost, the EZscan[tm] Model II can drive a pre-defined color (blue-screen), or some other function as defined in the BIOS created with the configuration utility.

4 Research Park Drive, St. Charles, MO 63304 USA • http://www.westardisplaytechnologies.com • 636-300-5100 • FAX 636-300-5105 Oct 2010

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How to get started

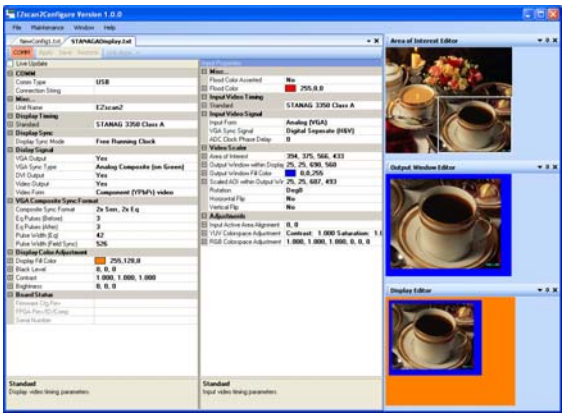
Please contact us at (636) 300-5164. We will discuss your specific application.

Ordering Identification

Simply specify EZscan Model II! The unit is delivered with rackmount ears. Contact the factory if your application requires a benchtop unit, and we will supply user-installable rubber feet.

EZscan[tm] Model II Specifications

Input Specifications (Subject to change without notice)		
	Video Type	Standard: Analog RGB (0.7 Volt levels, Interlaced or Non-Interlaced), TMDS, NTSC/PAL
	Pixel Rate	Up to 162 MHz
	Clocks per Line	Up to 4096 (2048 Active)
	Lines per frame	Up to 2048
	Sync Type	HV, Composite Sync, or Sync-on-Green
	Phase Adjustments	Sample clock can be adjusted to ensure center sampling
	Connectors	DVI-I connector for Analog RGB, TMDS (DVI to HD15 adapters included in delivery) RCA and S-Video connector for NTSC/PAL (cannot connect to RCA and S-Video simultaneously)
Output Specifications		
	Video Type	Standard: Analog RGB (0.7 Volt levels, Interlaced or Non-Interlaced), TMDS, NTSC/PAL
	Pixel Rate	Up to 162 MHz
	Clocks per Line	Up to 4096 (2048 Active)
	Lines per frame	Up to 2048
	Sync Type	HV, Composite Sync, or Sync-on-Green
	Connectors	DVI-I connector for Analog RGB, TMDS (DVI to HD15 adapters included in delivery) RCA and S-Video connector for NTSC/PAL (cannot connect to RCA and S-Video simultaneously)
Electro Mechanical		
	Input Power	IEC Connector, 100-240 VAC, 47-63 Hz, less than 60 Watts
	Control	RS-232, USB
	Size	Rackmount config: 19”W x 8”D x 1.75”H, Benchtop config: 17.4”W x 8”D x 2.12”H
	Weight	Less than 5 lbs.
	Certifications	CE, RoHS
Warranty		One year
Functional	Specialty Features	Interlaced to non-interlaced conversion, image rotation, image flip Windowing, Programmable border colors, Brightness and Contrast adjustments
	Color processing depth	10 bits per color
	Re-sizing limits	Virtually unlimited
Each EZscan Model II delivery includes:		EZscan Model II unit, (2) DVI to HD15 adapters, RS-232 serial cable, USB cable, power cable, rackmount ears, and configuration utility



The EZscan[tm] Model II Configure utility allows the user to set up input and output timing parameters and resolutions. The utility is provided free-of-charge to any EZscan Model II customer.

EZscan[tm] Model II Configure provides access to all programmable features of the unit, including area-of-interest control, background colors, image rotation, image flipping, etc.