

VectorVGA Pro Stroke to Raster Scan Converter

CUSTOMIZABLE

The VectorVGA Pro offers a wide range of custom options such as differential inputs, connector type, custom video input and output format and resolution, configurable gamma for RGB/Z input and video output, form factor, and much more. With the VectorVGA Pro converter you only pay for the features you need.

VIDEO QUALITY

The VectorVGA Pro utilizes a powerful FPGA to render 65 million samples per second, resulting in faithfully rendered vectors that are true to the original analog signals.

ON SITE INTEGRATION

Not sure about your exact specifications, what resolution you require, or how our converter fits into your legacy system? IST Engineers can walk you through your system requirements and provide on site installation and application support.



Features:

Accurately converts XYZ / XYRGB stroke signals (such as radar, sonar, HUD, vector) to raster video

Custom form factors and controls available to suit project-specific needs

Enables stroke video to be viewed on any low cost COTS display

Configurable to any custom resolution up to 1920 x 1080 (1600 x 1200)

Imaging Systems Technology is proud to introduce our new line of stroke to raster scan converter: the VectorVGA Pro. The VectorVGA Pro converts any stroke video signal from a legacy vector video source to standard raster video format that is viewable on any display.

The VectorVGA Pro converter enables you to view stroke video outputs from radar and sonar devices, spectrum analyzers, electronic warfare (EW) units, Heads Up Display (HUD) generators, and many other legacy vector sources using low cost off-the-shelf monitors. Rasterized stroke video output can be recorded using standard video recording devices.

VectorVGA Pro has all the features you need to rasterize your vector video stream, including adjustable input range and polarity, monochrome & color mode, integration time, and output resolution.

What sets the VectorVGA Pro apart from the competition is the fact that each system can be customized for your specific needs. No more spending hours reading long manuals and setting dozens of configuration options that don't apply to your system. Simply tell our engineers what you need and we will make sure your system is configured properly.

Our custom configuration means you only pay for what you need; you don't pay a premium for input and output options you'll never use. IST will provide the level of engineering support you require to ensure your system integration is a success.

The VectorVGA Pro generates high quality video by digitizing your legacy system's analog signals. After digitization by high speed analog to digital converters, the signals are rendered, frame-buffered, and output as standard format raster analog and digital video.

VectorVGA Pro Specifications

TECHNICAL SUPPORT

IST provides world class customer service to support our cutting edge technology.

QUALITY ASSURANCE

IST is an ISO 9001:2008 certified manufacturer and designer. We constantly strive to improve our processes to ensure the highest quality products and support.

CUSTOM SOLUTIONS

Our team of electrical and mechanical engineers can design and develop the solution that best fits your needs. We specialize in electronic design from specification to delivery, reverse engineering, advanced display research & development, and patent filing, litigation, and expert witness.

CONTACT

For more information on any of our products please visit us on the Web at:
www.VectorVGA.com
www.TeamIST.com
Or call our sales team at 419.536.5741 x 106

Signal Inputs

X AND Y POSITION INPUTS

Typical

Single-ended ± 0.5 V to ± 10.0 V
Single-ended 0-0.5 V to 0-10.0 V
Offset $\pm 50\%$
DIP switch signal inversion
5k Ω impedance
Custom Available

RGB (Z) INTENSITY INPUTS

Typical

Single-ended 0-1.0 V to 0-10.0 V
Black level offset $\pm 50\%$
DIP selected Monochrome/Color
DIP selected TTL input polarity
5k Ω impedance
Custom Available

Signal Outputs

VIDEO OUTPUT

DVI-A / DVI-D / HDMI / HD-15 VGA
Analog and Digital
Available Resolutions
640 x 480 (VGA)
800 x 600 (SVGA)
1024 x 768 (XGA)
1280 x 720 (720p)
Custom up to 1920 x 1080
(1600 x 1200)

Additional Specifications

FRAME BUFFER

65 MHz Sampling Rate
DIP selectable integration time

CONTROLS

Panel XYRGB (Z) range knob
Panel XYRGB (Z) offset knob
Panel configuration DIP switches
Custom Available

POWER REQUIREMENTS

5 VDC @ 2 A

CONNECTORS

BNC for XYRGB (Z)
BNC for TTL AUX / BLANK inputs
DVI-I video output
2.1 mm power connector
Custom Available

XY INPUT BANDWIDTH

5 MHz -3 dB

SIZE & WEIGHT

18 cm x 26 cm x 10 cm (W x L x H)
1 kg
Custom Available

RGB (Z) INPUT BANDWIDTH

10 MHz -3 dB

ENVIRONMENT

10°C to 40°C
<95% Non-Condensing Humidity

Available Custom Options and Services

System Design Consulting

Professional Installation

System Integration

Hardware / Firmware Customization

Differential input signals

Input signal termination / impedance / range

Custom form factor and controls

Customer case, 1U server rack, bare board, fixed

adjustments, remote adjustment RS232 USB

Ethernet

Custom resolution up to 1920 x 1080 (1600 x 1200)

TTL Gen Lock input

Custom video timing / format

Stroke / raster video combining

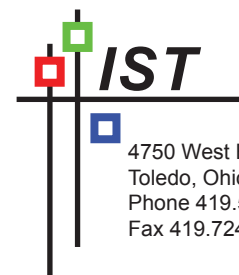
Custom input & output gamma (default 2.2)

Custom integration period and modes

Stroke beam diameter

XY / RGB delay

Contact us with your needs!



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