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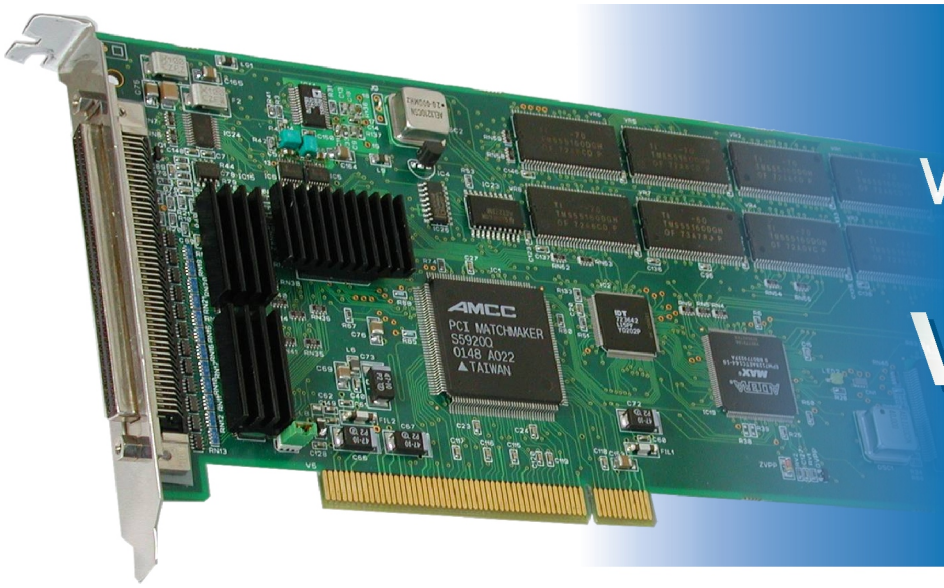

Video Test Generator

VTG-3116

PCI Interface

Test Signal Generator for Digital Displays

The VTG-3116 PCI board is a digital video signal generator designed for testing, evaluating and servicing different types of Flat Panel Displays in manufacturing, research & development. It can supply the necessary signals for displaying test pictures on LCD, EL and Plasma Displays or other equipment using digital video inputs, colour or monochrome.

Excellent tools for testing

VTG software comes with a set of commonly-used timings and test patterns. For user's special needs it is simple to edit and modify them and save for further use. It offers complete single pixel control in any timing and pattern including text with bitmap and vector fonts. It is easy to build test sequences for manufacturing, burn-in, quality control and service routines. Also multiple generators can be controlled in one PC.

Unigraf VTG Software and Hardware offer quick, easy and powerful tools designed precisely for various types of video testing applications of today and tomorrow.

Easy & Efficient Interfacing Control

The large variation in the interface signaling required by different types of displays is solved by versatile Digital Interface Adapter bus. Different DIA & VIA-adapters, supporting various display interfaces, can be connected to the VTG-3116. The DIA adapters mount directly to the VTG card and the VIA adapters are connected to the card by a cable. New adapters can be developed as the interfaces and standards improve and change.

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High performance UniLink 100 pin Interface controlled by powerful programmability and software support

- Single-Ended double pixel output mode up to 330MHz Pixel Frequency
- Differential ultra clean output mode up to 200MHz Pixel Frequency
- WinVTG.exe User Interface for Windows™ (95, 98, NT, 2000,XP)
- DLL for application programming
- Bitmap support for multiple file formats: .BMP .GIF .JPEG .PCD .PCX .PNG .TIF
- ATE support, VESA DPMS and DDC
- Unlimited number of permanent programmable patterns, timings, colors, palettes, signal formats and sequences

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Video Test Generator VTG-3116

BASIC SPECIFICATIONS

(Some features can be extended with the use of a suitable Interface Adapters)

Pixel Frequency

Single-Ended double pixel output mode up to 330MHz Pixel Frequency

Differential mode up to 200MHz Pixel Frequency

Step: 0,01 Mhz

Accuracy ±50 ppm

Graphics Display Memory Size

Resolutions	2048 x 2048 x 8 bit colors out of 16.7 million true color

Horizontal Timing

Scan Range	1 - 1000 kHz
Period	256 - 4096 pixels
Sync Pulse	2 - 2048 pixels
Back Porch	0 - 2048 pixels
Display Resolution	16 - 4080 pixels, active
Adjust Step	1 pixel for all dot clocks

Vertical Timing

Scan Range	10 - 200 Hz
Period	4 - 4500 lines
Sync Pulse	1 - 4095 lines
Back Porch	0 - 4095 lines
Display Resolution	1 - 4200 lines, active
Adjust Step	1 line for all parameters

Outputs

Digital Video	2 x24 bit (3 x 8 bit, RGB)pixels 24 bits differential to 200MHz TTL-level, 50 termination
Colors	256 simultaneous colors out of 16.7 million 24 bit palette
H&Vsync	TTL-level, 50 termination
Blank	Composite blanking signal, TTL-level, 50 termination
Pixel Clock	TTL-level, 50 termination
Connector	DHP-100 Dsub Half Pitch

Display Data Format

Scan Modes	Single- or dual-scan
Pixel Clocking	Data on rising edge, on falling edge or on both edges (DDR) 1, 2 or 4 pixels per clock Clock, Blank, Hsync } Polarity and Phase delay adjustment

ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

System Requirements and Software

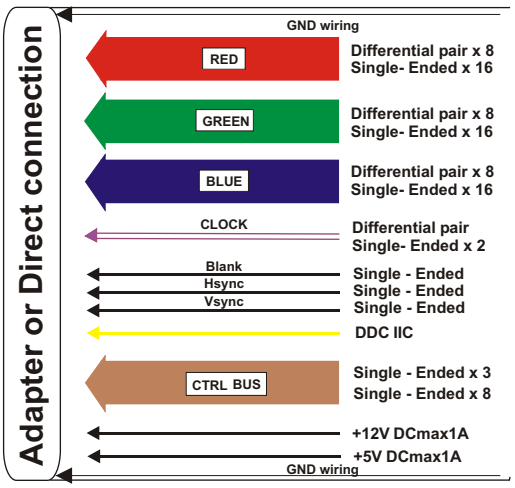
- Windows™ operating system (95, 98, NT, 2000,XP)
- WinVTG .exe User Interface
- Windows DLL software library
- Visual Basic and C++ sample programs
- PCI-bus
- Power: +5V/3A max, +12V/10mA
  (+ output connector supply for +5V max1A and +12V max2A)
- EMI: meets EN 55011, Class B
- Dimensions: 272 mm x 107 mm

VTG Interface Adapters and Direct Interface Adapters

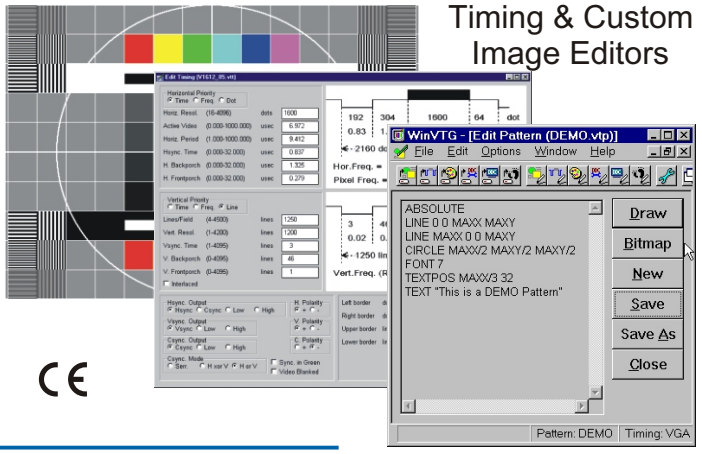
(DIA Adapters mount directly to the VTG card & VIA mount by cable)

- DIA-DVI, serial differential & analog adapter
- DIA-LVDS, serial differential adapter
- DIA-TV, HD& SDTV outputs
- VIA-TTL, parallel adapter with 100 pin cable
- VIA-TMDS, serial differential adapter with 100 pin cable
- VIA-LVDS,serial differential adapter with 100 pin cable

UniLink Configuration



Timing & Custom Image Editors



CE

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ISO 9001 CERTIFICATED FIRM

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