Video Pattern Generator

2316/2325

Video Pattern Generator
Model 2316/ 2325
Analog 165 / 250 MHz

KEY FEATURES
- Video pixel rate up to 250 MHz
- Large graphic display size up to 4096 ×2048(optional)
- All timing parameters are fully programmable in one-pixel resolution
- Satisfactory color display performance up to 256 colors
- Factory-installed standard pattern & timing library
- Screen drawing includes blinking function and motion picture
- Analog RGB and optional Digital TTL, LVDS, and Panel Link video outputs
- Power saving mode test capability
- Remote programming and control from PC
- Optional memory card expansion for unlimited data storage
- Standard RS-232 interface
- ESD protection circuit
- Portable, small size, and compact
- CE marking

The Chroma 2325 series offer high performance, low cost solutions for testing high resolution CRT display monitors, projectors, and video printers. Designed with precision phase lock loop (PLL) frequency synthesizer circuit (25PPM accuracy), it is capable of generating sophisticated video graphic display with 256 colors selection on every pixel. All horizontal and vertical timing parameters are fully programmable in one-pixel resolution. It supports the analog RGB and optional digital TTL, LVDS, and Panel Link video outputs for the testing need of both LCD and CRT monitor.

The instrument is designed to generate video graphic patterns and timing formats which has been programmed into a memory card from PC or any Chroma 2225 series video pattern generators. Also, the operation can be programmed and controlled from PC through RS-232 interface.

It offers factory-installed selections of universal timing, pattern, and icon formats. Standard test patterns such as SMPTE, High-Voltage Regulation, X-Hatch, Color Delay, Interlace Check, etc. are built-in a pattern library. These patterns are easily called and displayed on the monitor screen for test or demo purpose. The screen drawing, including blinking function and motion picture, makes you operate more easily and friendly. It also has the power-saving mode test capability for testing your monitor's compliance with the standard of display power management.

In test application , the user can program and display various timing/pattern combinations on the monitor in an automatic sequencing mode or in a manual control mode. The instrument can be easily operated using the front panel keypad or from the optional remote control keypad. Also the user has instant on/off control of individual R, G, B, or Reverse pattern using front panel one operation.

Compact in design and fully field tested, the Chroma 2325 series meet the trend of modern extremely demanding CRT monitor industry where every pixel of monitor is critical. The Chroma 2316/2325 offer the most cost effective solution and keep you leading in the production testing, repair and service applications of CRT and LCD monitor industry.

ORDERING INFORMATION
2316 : Video Pattern Generator 165MHz
2325 : Video Pattern Generator 250MHz
A222502 : NTSC/PAL TV Module
A225003 : Remote Keypad
A225009 : Memory Card (2MB in JEIDA Standard)
A225010 : Memory Card (4MB in JEIDA Standard)
A232501 : LCD Module

A232501 LCD Module

A225003

INQUIRY ONLINE
Visit www.chromaate.com
to inquire more details

SPECIFICATIONS

PIXEL RATE

Model	2316	2325
Range	3.126-165MHz	3.126-250MHz
Accuracy	25PPM(typical), 1PPM (after calibration)	

GRAPHIC DISPLAY
2048 x 2048, 4096 x 2048 (Optional)
SCAN MODE: Non-interlace, Interlace video & sync
ANALOG OUTPUT
Video: R, G, B (75 ohms loading)
Sync on Green: On/off programmable
Video Level: 0-1.0V programmable
Sync Level: 0-0.5V programmable
White Level (DC offset): 0 -1.2V Programmable
Black Level: 7.5 or 0 IRE
Separate Sync: Hs, Vs, Xs (Xs can be Hs, Vs or Composite Sync)(TTL levels)
Color: 256 colors (1 pixel resolution)
TTL OUTPUT
Pixel Rate: Up to 80MHz
Sync: Hs, Vs, Xs
Color: 64 colors
HORIZONTAL TIMING
Total Pixels: 128-8192 pixels
Resolution: 1 pixel
Sync Width: 16-8191 pixels
Resolution: 1 pixel
Sync Position: Leading edge in blanking period

VERTICAL TIMING
Total Pixels: 6-4096 lines (non-interlace), 6-2047 lines (interlace)
Sync Width: 1-4095 lines (non-interlace), 1-2046 lines (interlace)
Resolution: 1 line
Sync Position: Leading edge in blanking period
COMPOSITE SYNC
H+V, H Exclusive or V, RS343A Waveform with Equalization & Serration Pulse
DATA STORAGE DEVICE
Flash Memory (Read Only): 100 timing + 100 patterns
NVRAM (R/W): 300 timing + 100 patterns + 100 programs
Memory Card (R/W): Unlimited data storage
Disk on PC: Unlimited data storage
AC INPUT
90-132/180-250Vac, 47-63Hz auto range
DIMENSION (W X H X D)
318 x 100 X 320 mm / 12.5 X 3.9 X 12.6 inches

All specifications are subject to change without notice.