

1.0 OUTLINE

The VG-819 generates a wide selection of video timing and test patterns quickly and easily. A 5 to 240 MHz wide dot clock range enables evaluation of CRT monitors up to 130 KHz horizontal scanning rate.

The VG-819 can also be used for production and R&D applications of flat panel displays including plasma displays, LCD etc.

2.0 FEATURES

- * Dot (pixel) clock range is 5 to 240 MHz.
- * Up to 30 different complex test patterns are built in, such as SMPTE, high voltage regulation test, paring, 256 colors simultaneous display, Ramp pattern etc.
- * Very fast pattern display speed.
- * Built in RS-232 and GPIB interfaces for compute control.
- * Independent programming of horizontal/vertical and dot clock frequencies.
- * Front panel EEPROM in ZIF socket for easy program storage and recall using front panel keys.
- * Analog, TTL and ECL outputs.
- * Panel ROM structure is compatible with the VG-814, VG-815, VG-829, VG-812 AND VG-813.

12.0 Ratings and Accessories

12.1 Feature Specification

- 1) Dot (pixel) frequency : 5 MHz to 240.00 MHz
- 2) Horizontal scan frequency : 10 KHz to 130 KHz
- 3) Number of vertical lines : maximum 4096 lines
- 4) Graphics video memory : 2048 x 2048 dots
- 5) Analog video output level : 0.30 to 1.20 volts (75 ohms)
- 6) Sync output level (Hs/Vs/Cs): 1.50 to 2.20 volts (75 ohms)
(factory adjustment 2.0 volts)
- 7) Equalizing pulse : On/Off selection
- 8) Serration : On/Off selection
- 9) Sync on video signal : On/Off on R,G,B selection
- 10) Scanning mode : non-interlace
interlace & sync
interlace & video
- 11) Analog output : R,G,B,Hs,Vs,Cs
- 12) TTL output : R,G,B,RHT,GHT,BHT,Hs,Vs,Cs,
CLK,HD,VD,+5 volt, GND
- * TTL video outputs are specified up to 120 MHz
- 13) ECL output : R,G,B,RHT,GHT,BHT,Hs,Vs,Cs,
CLK,Vtt,GND(plus the
complementary outputs of each)
- 14) Output patterns : character
cross hatch
dot
circle
color bar
gray scale
multi burst
window
corner marker
edge marker
diagonal
option patterns
- 15) Output control using front panel keys : On/Off of R,G,B and
RHT, GHT, BHT

12.2 Other Specifications

1) Power Source

* Input voltage	: 85 to 130 volts AC 170 to 250 volts AC
* Frequency	: 50 to 60 Hz
* Power consumption	: 250 VA max.

2) Dimensions & weight

* Dimensions	: 430(w) x 120(h) x 395(d) mm
* Weight	: 9.0 Kg

3) Environmental conditions

* Operating temperature	: +5 to +40 deg. C
* Storage temperature	: -10 to +60 deg. C
* humidity	: 20% to 90% (non condensing)

12.3 Standard Accessories

1) Operation Manual	: 1 set
2) AC Power cable	: 1 pce
3) BNC cable (3C2W, black)	: 5 pcs
4) 3.0A fuse (slow blow type)	: 2 pcs
5) EPROM (# 6335, Std. Timings)	: 1 pce
6) EEPROM (blank)	: 1 pce
7) Frame ground cable	: 1 pce
8) 24 pin connector (TTL)	: 1 pce
9) 36 pin connector (ECL)	: 1 pce