VG-827 Portable Video Signal Generator

Up to 150 MHz, Analog/Digital Supported A4 Portable Model

VG-827 is a compact, lightweight and low-cost portable video signal generator that maintains compatibility with analog output types of VG series (panel ROM), and made into A4 sized unit by the gate array developed by us. The unit supports horizontal timing accuracy to be set as accurate as one dot. The video output types of RGB analog, RGB digital up to 8 bits, low voltage digital serial outputs (panel link or LVDS) are provided, thus it proves to be an exceptionally useful tool for R & D, inspection and testing, etc. of display units, whether it is a CRT, LCD or PDP.

¥Features

¥ High cost performance

Lightweight and low-cost portable video signal generator that maintains compatibility with analog output types of VG series (panel ROM), and made into A4 sized unit which is achieved by Astro's unique gate array. Provided with digital 1/2 clock mode (parallel output of two dot data for EVEN and ODD by 1 clock), dot clocks ranging from 5 to 75 MHz (1/1 clock mode), and from 10 to 150 MHz (1/2 clock mode) can be supported.
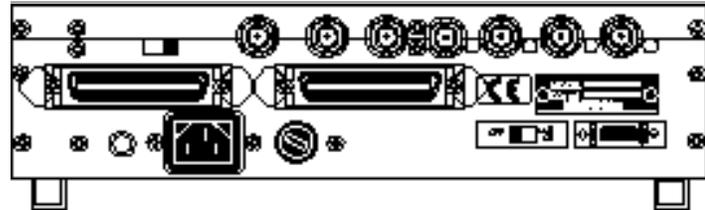
¥ Registration via on-screen menu

By using an optional remote box (RB-649), manus can be displayed on any timing display unit, and program data can be edited and registered on a panel ROM via the on-screen menus.

¥ Low voltage digital serial output

Low voltage digital serial output is provided to reduce EMI in transmitting signals. Either of panel link output or LVDS output can be selected.

¥Background view

SPECIFICATIONS

Output specifications	Dot clock frequency	Analog 5.00 to 150.00 MHz Digital 1/1 clock mode 5.0 to 75.0MHz (in unit of 1 dot)
		1/2 clock mode 10.0 to 150.0MHz (in unit of 2 dots)
		Serial output Performance of installed devices (Please contact us.)
	Horizontal frequency	10 to 130KMHz, 8192 dots Max.
	Vertical scan lines	Max. 8192
	Video memory	2048 dots x 2048 dots x 2
Analog output	Output signals	R, G, B, HS, VS, CS (HS, VS and CS can be driven by TTL)
	Video signal output level	0.30 to 1.20 V Setup value can be switched between On and OFF using RS343A ratio.
	Sync signal output level (HS, VS, CS)	2V or higher (75 Ω)
	Identification pulse	ON/OFF selectable
	Serration pulse	OFF/0.5H/1H/XOR selectable
	Composite video sync signal	ON/OFF selectable only for G (level using RS343A ratio)
	Scan	Non-interlace, interlace & Sync, interlace & Video
	Digital clock output (BNC)	CLK (ECL amplitude, AC couple output)
Digital output	Parallel output	8-bit for each of R.G.B., HS, VS, CS, DISP, CLK, SW0, SW1 (5/3.3 V switchable) (57 connector 50 pin x 2)
	Serial output	Panel link 8-bit for each of R.G.B., HS, VS, CS, DISP, CLK, SW0, SW1 (Dedicated connector)
		LVDS 8-bit for each of R.G.B., HS, VS, CS, DISP, CLK, SW0, SW1
External interface		RS-232C Remote box (RB-614C, RB-649)
General specification	Voltage	100 to 240 V (50/60 Hz)
	Power consumption	80 W Max.
	Operating temperature range	5 to 40°C
	Storage temperature range	-10 to 50°C
	Operating humidity range	30 to 90 % (no condensation)
	Dimensions	295(W) x 78(H) x 210(D) mm (excluding projected parts)
	Weight	3.5 Kg