

VG-828D Programmable Video Signal Generator



Supports all video signals whether analog or digital up to 250MHz!
Supports HDCP!

VG-828D is a Programmable Video Signal Generator capable of standard generating output including analog (RGB / color difference of synchronized 2 value / 3 value), parallel RGB digital up to maximum 8 bits, low voltage serial digital (panel link or LVDS), and NTSC / PAL. It is the most advanced model loaded with compatible features for operation with existing or conventional models, whether analog or digital. By using the standard program management software supporting Windows, timing and patterns can easily be set and registered. Also features are provided to allow users to freely create patterns, and register natural pictures with 1,677 million colors. Additionally, an optional HDCP function can also be used. These efficient features provide output, independent of display devices, thus can be used in the development, production, and inspection of video related units.



Background view



Features

- ✦ Analog signals for RGB/color difference (switching; various standards supported), 2-level synchronization/3-level synchronization (switching; various standards supported) can be used. NTSC/PAL (switching) composite and Y/C output are provided.
- ✦ Parallel RGB and low-voltage serial (either of panel link or LVDS) digital signals are outputted.
- ✦ By using a special cable, terminal D can be supported.
- ✦ Memory card is employed for registration of program data. When using a memory card, conditional output data can be individually set for analog and digital signals, and conventional panel ROM can also be utilized. Extensive features are available only when memory card is installed.
- ✦ Panel link output supports dual link (max260MHz).
- ✦ Sync ON/OFF can be manually selected with a panel key.
- ✦ Output video level can be manually set in real time.
- ✦ USB/RS-232C is employed for PC interface.

specifications

Output specifications	Dot clock frequency	Analog 5.00 to 250.00 MHz, Digital 1/1 clock mode 5.0 to 100.0 MHz, 1/2 clock mode 10.0 to 200.0 MHz, Serial output Performance of installed devices (Please contact us.)
	Horizontal timing	10 to 130 KHz, 8192 dots Max. (Accuracy can be set for all the area in unit of 1 dot.)
	Vertical timing	15.5 to 200.0 Hz, Max. 8192
	Video memory	4096 dots x 4096 dots x 24 bits (RGB 8 bits for each)
Analog output	Output signals	R, G, B/Y, R-Y, B-Y, HS, VS, CS (HS, VS and CS can be driven by TTL)
	Video signal output level	0.30 to 1.00V (75 Ω)
	Setup level	0.00 to 0.25V (75 Ω)
	Composite video sync signal level	0.0 to 0.50V (75 Ω)
	Sync signal output level (HS, VS, CS)	2V or higher (75 Ω)
	Identification pulse	ON/OFF selectable
	Serration pulse	OFF/0.5HTH/XOR selectable
	Scan	Progressive, interlace & Sync, interlace & Video
	NTSC/PAL output signal	Composite, S terminal
	D terminal supported	Output ID signal for D terminal, Supports D terminal using a special cable.
Digital output	Parallel output	8-bit for each of R,G,B., HS, VS, CS, DISP, CLK, SW0, SW1 (5/3.3V switchable) (Half pitch 68 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 (Dedicated connector)
External interface		USB, RS-232C, Remote box (RB-614C, RB-649)
General specification	Voltage	AC100 to 120V/200 to 240V (50/60 Hz)
	Power consumption	200W Max.
	Operating temperature range	5 to 40°C
	Storage temperature range	-10 to 50°C
	Operating humidity range	30 to 80 %RH (no condensation)
	Dimensions	430(W) x 88(H) x 430(D) mm (excluding projected parts)
	Weight	Approx. 8 Kg