

VG-826A

Portable Video Signal Generator for LCD/Flat Panels



A4-sized Portable Unit Supporting up to 75 MHz Digital Outputs

VG-826A is a lightweight and low-price portable video signal generator designed to be used for development and production of LCD modules. This model maintains compatibility with analog output types of existing VG series (panel ROM), and made into A4 sized unit which is achieved by the incorporation of Astro's unique gate array. Provided with up to 8 bits of RGB digital outputs and low-voltage digital serial outputs (panel link or LVDS), it supports XGA-class (in the 1/1 clock mode) and SXGA-class (in the 1/2 clock mode) timings.

✧Features

✧ 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 the gate array developed by us. Provided with digital 1/2 clock mode (parallel output of two dot data for EVEN and ODD by 1 clock), thus 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 menu.

✧ Low voltage digital serial output

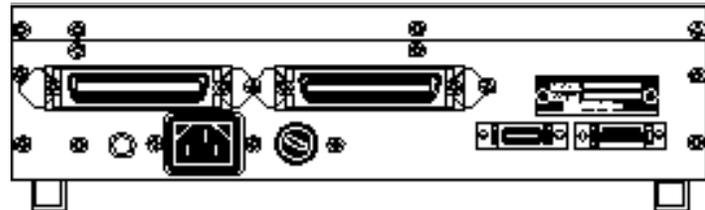
Low voltage digital serial output is provided to reduce EMI in transmitting signals. Either of panel link output or LVDS output can be selected.

✧ Compatibility with conventional models

The panel ROM configured and registered with conventional VG-852, VG-825, VG-827 (for digital outputs), VG-828 (for digital outputs) can be used. The output patterns are also commonly used (with some restrictions).



✧Background view



SPECIFICATIONS

| | | | |
|-------------------------------------|---|---|---|
| Output specifications | Dot clock frequency | Parallel output 1/1 clock mode | 5.0 to 75.0MHz (in unit of 1 dot) |
| | | Parallel output 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 130KHz, 8192 dots Max. | |
| | Vertical scan lines | Max. 8192 | |
| | Video memory | 2048 dots x 2048 dots x 2 | |
| | Parallel output (57 connector 50 pin x 2) | 8-bit for each of R.G.B., HS, VS, CS, DISP, CLK, SW0, SW1 (5/3.3V switchable) | |
| Serial output (Dedicated connector) | Panel link | 8-bit for each of R.G.B., HS, VS, CS, DISP, CLK, SW0, SW1 | |
| | 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 | |