

VG51C

FLAT PANEL DISPLAY INSTRUMENTS

FPD TEST SIGNAL GENERATOR



General

The VG51C is a digital signal generator designed for flat panel displays (FPDs). It is equipped with parallel RGB output and low-voltage digital serial output (as an option) for digital interfaces used in display equipment such as LCDs and PDPs, and supports high resolution of UXGA and above.

Features

- Supports a wealth of timings as well as parallel RGB output and digital serial output formats (TMDS, LVDS, GVIF).
- Outputs a large number of signal patterns provided as standard. In addition, user-created natural pictures and patterns can be read from a Compact Flash (CF) card and output.
- Parallel output of RGB at 8 bits per signal from 5 to 200 MHz (5 to 100 MHz during single link, 10 to 200 MHz during dual link) supports dot clock.
- Equipped with marker display, screen scrolling, text character superimposition functions, and flicker functions.

Specifications

- Type of outputs
 - Parallel output
 - Standards conformance
Shibasoku original
 - Dot clock frequency
5 to 100 MHz (single link)
10 to 200 MHz (dual link)
 - Data format
R/G/B, 8 bits each
 - Transmission sync signals
HS, VS, DE, CLK
 - Outputs level
3.3, 5 V (selectable)
 - Connector type
Half-pitch 68 pins
 - Number of outputs
1(2)
 - Other features
HS/VS/DE polarity reversal, CLK phase adjustment, bit shift, DE control

- TMDS format (options)
 - Standards conformance
DDWG DVI Revision 1.0
 - Dot clock frequency
25 to 165 MHz
 - Data format
R/G/B, 8 bits each
 - Outputs level
500 mV differential output
 - Connector type
DVI 29 pins (analog output not supported)
 - Number of outputs
1
 - Other features
Bit shift
- LVDS format (options)
 - Standards conformance
JEIDA digital monitor interface standards Ver.1.0
 - Dot clock frequency
32.5 to 112 MHz (single link)
65 to 224 MHz (dual link)
 - Data format
R/G/B, 8 bits each
 - Outputs level
345 mV differential output
 - Connector type
MDR 36 pins
 - Number of outputs
1
 - Other features
Bit shift
- GVIF format (options)
 - Standards conformance
Shibasoku original
 - Dot clock frequency
8 to 42 MHz (signal link)
 - Data format
R/G/B, 8 bits each
 - Outputs level
400 mV differential output
 - Connector type
VG51A0D02:MX-U8-2PH × 1
VG51A0D03:MX-U8-2PH × 1
C2956-MX-U5-7PL-B5 × 1
 - Number of outputs
2
 - Other features
Output ON/OFF, bit shift, DE control

Specifications

● Other Features

- Marker cursor function
 Marker cursor can be displayed at any position within the effective screen (while control box is in use, can be moved using arrow keys).
- Scrolling function
 Scroll directions Up, Down, Right, Left, Up+Right, Up+Left, Down+Right, Down+Left
 Frame steps 1, 2, 4, 8, 16, 32, 64 frames selectable
 Amount of scroll movement 0 to 16 dots/line in both H and V directions
- Character function Characters can be displayed in ASCII code
- Flicker function
 Flicker mode POSI/NEGA, BLACK, WHITE, USER
 Flicker frame rate 1 to 128 frame (1 frame step)
- Memory function Main unit status can be stored in 4 groups of 100 items.
 100 statuses can be saved to or loaded from memory card as 1 sequence (SEQ).
 High-speed status switching is possible in sequence units using high-speed memory card.
- Image memory
- Total image memory 4 k x 8 k x 24 bits
 (Max. display size: 4096 dots x 4000 lines)
- Others
- Card interface For Type I CF memory card
- RS-232C interface D-sub 9 pins female
- Control / remote box interface D-sub 25 pins female

● Test signals

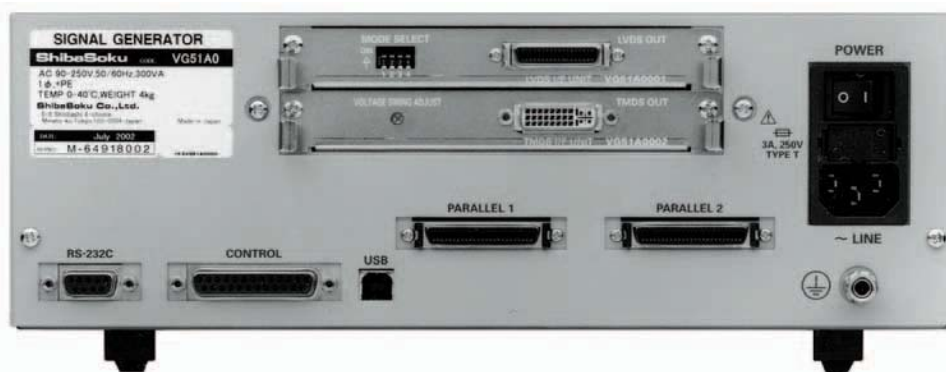
| | | |
|--------------|--------------|-----------------------|
| Color Window | Raster Check | Stair step Crosshatch |
| Dot ROM | Circle CF | Burst Block |

● Options

| | |
|-----------|------------------|
| VG51A0001 | LVDS output unit |
| VG51A0002 | TMDS output unit |
| VG51A0D02 | GVIF output unit |
| VG51A0D03 | GVIF output unit |
| VG51A0004 | Control box |
| VG51A0005 | Remote box |

● General specifications

| | |
|-----------------------------|---|
| Power supply | AC 90 to 250 V, 50/60 Hz |
| Operating temperature range | 0°C to 40°C |
| Relative humidity | 25% to 90%RH (non-dewung) |
| Dimensions | 300 (W) x 100 (H) x 270 (D) mm |
| Weight | Approx. 4 kg |
| Accessories | Power cord x 1 3P-2P adapter x 1 User's manual x 1 Remote control software (CD-R) x 1 Cable with D-sub 9 pins connector x 1 |



VG51C.2.01.YO