

VG-849 Programmable Video Signal Generator

NEW

Further evolutionary changes unveil a new generation of video signal generators. HDMI TV dedicated VG-849 arrives!



VG-849 is the most significant analog/digital output type programmable video signal generator. Supports analog RGB/YPbPr signal switching and conforms to HDTV system timing.

SDTV standard signals like NTSC/PAL/SECAM are also supported. Standard unit offers TMDS signal digital output with added HDCP function. Dual link output (to 300MHz) is possible with custom modification. Can support an ultra-high-density display surpassing QXGA (2048 x 1536). HDMI (High-Definition Multimedia Interface, interface standards for next generation TV).



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Features

¥Wideband Dot Clock

A Dot clock with 5 – 300 MHz analog output, 25 – 300 MHz (DVI dual link) * supports a wide range including broadband. 1KHz accuracy allows more precise settings.

¥HDMI supported

HDMI function is provided for transmitting high-resolution (HDTV) video and multi-channel audio without compression that could result in quality deterioration. Complies with "HDCP (High-bandwidth Digital Contents Protection), h a method of coding digital image signals.

¥Ethernet adopted for outside interface

Ethernet and RS-232C have been adopted for external interface. By supporting Ethernet, the signal generator is now capable of performing batch control of multiple VG units.

¥Rich output system

BNC, mini-D-Sub15Pin, D-terminal, DVI-I, VBS, and S-terminal are provided for analog output while a DVI connector and an HDMI connector are provided for digital output.

¥Equipped with scroll and simple animation imaging functions

Equipped with a 1-dot level horizontal and vertical display pattern scroll function. It can also be used to store multiple animation images with respect to resolution and display them by moving a display start coordinate control.

¥Editing via PC Card is possible

An ATA compliant Compact Flash Card has been adopted as a recording medium. Program Bitmap data editing can be saved directly to the PC without using VG.

¥Corresponding full color output

16,770k, 24-bit color (RGB, 8-bit each) simultaneous chromospheres are possible. Capable of outputting natural image Bitmap data as a pattern.

Specifications

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|-----------------------|---|--|
| Output Specifications | Dot Clock Frequency / step | Analog : 5 – 300MHz / 1KHz steps Digital DVI : 25 – 165MHz / 1KHz steps Digital HDMI : 25 – 81MHz / 1KHz steps |
| | Horizontal Timing Frequency setting accuracy | 1dot level for all the area(analog output only) |
| | Frequency / dot | 10 – 30KHz / 8192dots max. |
| | Vertical timing Frequency Scanning Line | 15.6 – 200Hz / 8192 max. |
| | Image memory / simultaneous chromospheres bitmap | 4k ~ 4k ~ 24bits / 16.770.000 colors |

VG-849

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| | Window plane / character plane | Window setting with a register – 1 of 16,770k colors |
| Analog output (BNC,Dsub-15 D terminal,DVI-I) | Output signal | R EG EB/Y ER-Y EB-Y |
| | Output impedance | 75 Ω fixed |
| | Video peak level | 0.3 – 1.2V |
| | setup level | 0 – 0.25V |
| | Composite synchronization signal level | 0.6V(0 – 1.0V at 3 value output) |
| | Pedestal level | GND |
| | Level adjustment | Video (RGB independent) |
| | Output control | Video : OFF/R EG EB/Y ER-Y EB-Y Sync : OFF/2 value/3 value |
| | Synchronization signal output signal | HS,VS : More than 2V (75 Ω terminals) CS : -0.3V(-0.3V at 3 value output)(75 Ω terminals) |
| | (BNC)output level | ON / OFF,NEGA / POSI |
| (BNC) VBS,S-terminal output | Output control | NTSC,PAL,SECAM |
| | Output signal | Image level , SYNC level and timing complied with each standard (Timing,level fixed) |
| | | Frequency property depends on property of IC. |
| | Output impedance | 75 Ω fixed |
| | CS pulse setting Equivalent pulse | ON / OFF enabled |
| | Serration | OFF / 0.5H / 1H /XOR enabled |
| Inside generation audio | | 0(OFF) – 20KHz (variable)Analog output and HDMI output, Two types |
| DVI output(DVI-I connector) | | Single link 25MHz – 165MHz |
| HDMI output (Type A connector) | | Image : Dot clock 25–81MHz(RGB,YCbCr) Audio : 32KHz,44,1KHz,48KHz(2ch)Analog : 2ch (supporting digital audio, analog audio input terminal) |
| External input audio | | Digital : COAX,TOSLINK |
| Power | Power voltage | AC100 – 120V , 200–240V |
| | Frequency | 50 – 60Hz |
| | Power consumption | MAX 130W |
| Appearance | Outside dimension | 350(W) ~88(H) ~430(D) (13.8" ~3.5" ~17") (Excluding projections) |
| | Weight | 8.0Kg(17.6lb) |
| Environment | Operetion temperature | +5 to 40 (41 degF to 104 degF) |
| | Storage temperature | -10 to +60 (41 degF to 104 degF) |
| | Humidity | 30–80%(non-condensing) |