

VG-876/VG-879

DIGITAL VIDEO GENERATOR

Options

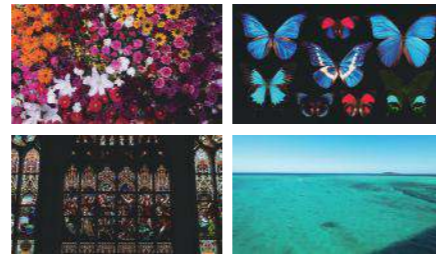
8K and 4K HDR Picture Library **VT-7009** New

- 10 and 12-bit versions of 8K (7680 x 4320) and 4K (3840 x 2160) images.
- Each image supports HDR-SMPTE ST 2084 (1000 nits, 4000 nits) and HLG formats, as well as SDR.
- Supports ITU-R BT.2020 (Rec.2020) color space.
- 14 various image of natural scenes and scale patterns.
- Includes a reference manual that indicates proper evaluation of luminance, color, gradation and solidity.



Ultra-high definition/ wide-color-gamut standard test images **VT-7007**

- 8K (7680 x 4320) and 4K (3840 x 2160) with ITU-R BT.2020 compliant (12-bit)
- 2K (1920 x 1080) with ITU-R BT.709 compliant (10-bit)
- 10 images available.



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 ■ Source: Institute of Image Information & TV Engineers
 ■ It is necessary to obtain permission from ITE before using VT-7007 in exhibitions, etc.
<http://www.ite.or.jp/content/mta>

HDMI High-Bit-Rate Audio **VT-8500-0006** HDMI COMPLIANCE TEST

- Audio Standard**
- DTS-HD Master Audio
 - DTS-HD High Resolution Audio
 - Dolby Digital Plus
 - DSD (One Bit Audio)
 - DTS Express (DTS-HD LBR)
 - DTS Digital Surround
 - Dolby TrueHD

Note) AAC/AC3 (Dolby Digital) is supported as standard audio.

SP-8871 Image Conversion Tool

- Convert BMP, JPEG and TIFF files to VGD format (VG readable format). This software is necessary, in order to output 10 and 12-bit image programs.
- Save sequential image files to one image file for short video play back functions. (one second with 4K/60p, 4 seconds with 1080/60p)



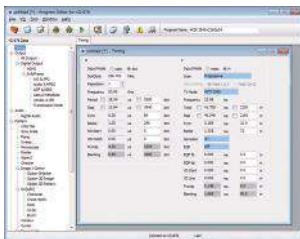
HDMI 2.0b Test tool

By using PC software (SP-8870), HDMI 2.0b CTS sink test is available.



Included

Application Software (SP-8870)



This is a standard accessory for timing and pattern editing and program execution. It gives the user the ability to make their own 3D data using BMP pictures.

General Specifications

Power Requirements	AC100-240V (50/60Hz)
Power Consumption	VG-876: 200W MAX VG-879: 260W MAX
Operating Temperature Range	5 to 40°C
Operating Humidity Range	20 to 80%RH (No Condensation)
Dimensions	430(W)×177(H)×310(D)mm (Excluding Protrusions)
Weights	VG-876: Approx. 7kg (full interface) VG-879: Approx. 9.3kg (full interface)

■ The terms HDMI and **HDMI** High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC.
 ■ V-by-One[®] HS Logo are trademarks of THine Electronics. ■ Dimensions, specifications etc. in this catalog may change without notice for improvement.

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VG876/879-IB4210E-1000-1

HDMI[®]
HIGH-DEFINITION MULTIMEDIA INTERFACE

V-by-One[®]
HS

ASTRO

DIGITAL VIDEO GENERATOR

VG-876 / VG-879

HDMI 2.0b COMPLIANCE TEST

HDR

8K

4K

VG-876

VG-879

- Select from HDMI 2.0b, V-by-One[®] HS, 12G-SDI, DisplayPort 1.2a, and Analog.
- Supports 8K/120p, 4K/120p and 1080/240p.
- Maximum 4 slot-type interface units can be installed.
- HDMI 2.0b test features of 6G, HDR, YC_BC_R 4:2:0, HDCP 2.2 and 3D.

Simple operation by selecting pre-installed timings and patterns.
7-inch display allows viewing of the menu and other program information. (VG-879)
The user can customize and save original timings and patterns.



Interfaces

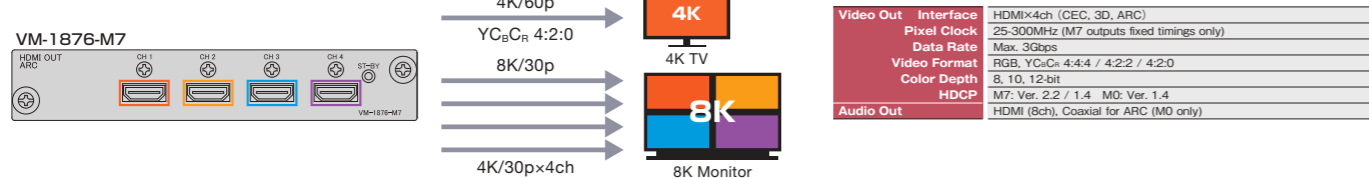
HDMI 6G Unit (VM-1876-M8) HDCP 2.2 HDR

HDMI 2.0b based modules. 4K/60p YCbCr 4:4:4 output is available. HDCP 2.2 and 1.4 are selectable.



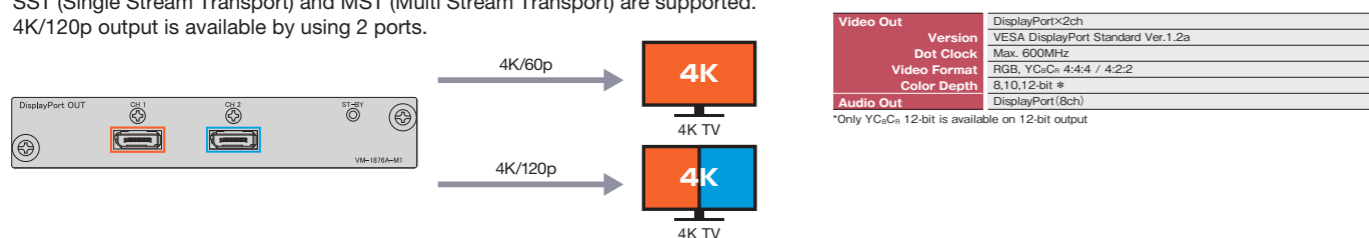
HDMI Unit (VM-1876-M7) HDCP 2.2 / VM-1876A-M0) HDR

HDMI 2.0b based modules. 4K/60p YCbCr 4:2:0 output is available. M7 supports HDCP 2.2 and 1.4 (Following sink capability). M0 support HDCP 1.4 only.



DisplayPort Unit (VM-1876A-M1)

DisplayPort Ver.1.2a based. 4K/60p is transmitted by a single channel. SST (Single Stream Transport) and MST (Multi Stream Transport) are supported. 4K/120p output is available by using 2 ports.



Interfaces

SDI Unit

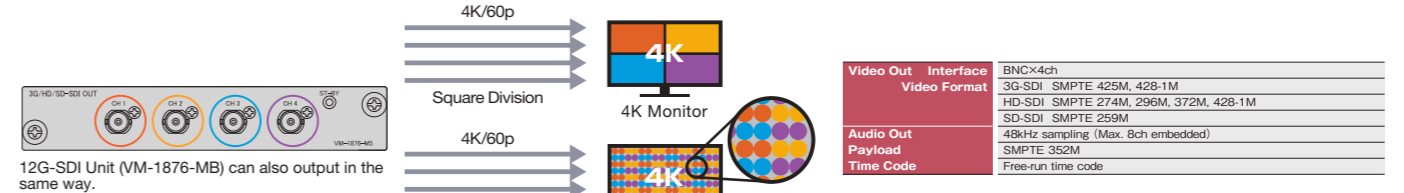
12G-SDI Unit (VM-1876-MB) To be installed in VG-879 only

4K/60p is transmitted by one channel of 12G-SDI, two channels of 6G-SDI or four channels of 3G-SDI. The Payload is editable. Eight channels of audio and time code packet can be embedded.



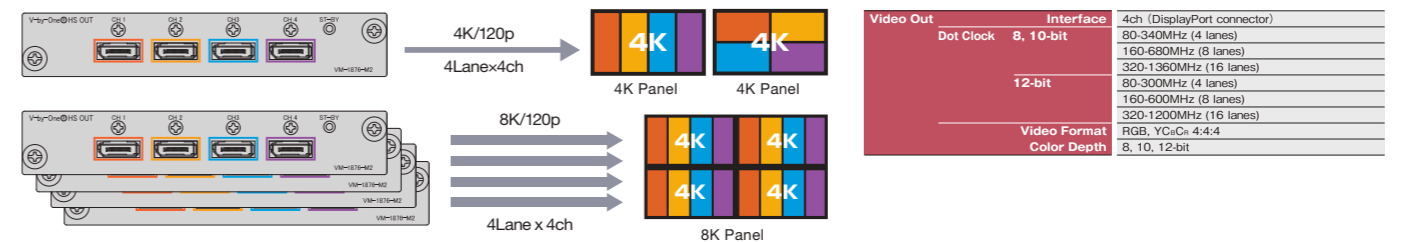
SDI Unit (VM-1876-M5) To be installed in VG-876 only

3G-SDI, HD-SDI and SD-SDI supported. 4K is transmitted by Square Division or 2-sample interleave division.



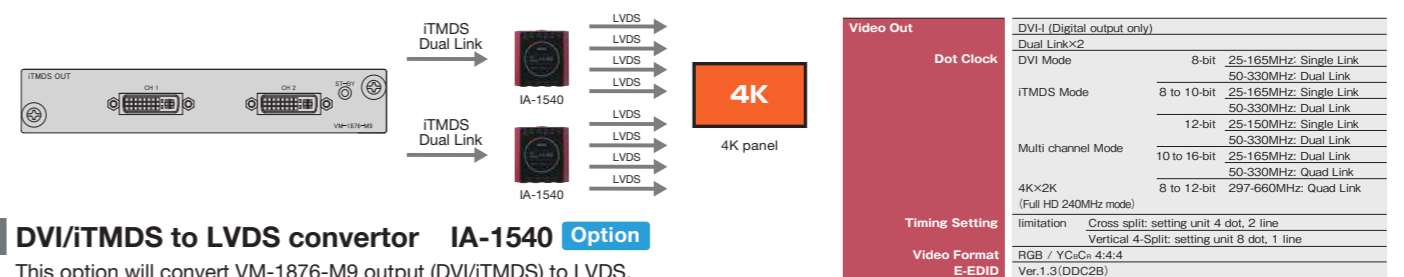
V-by-One® HS Unit (VM-1876-M2)

4K/120p and 8K/30p are transmitted by one unit. 8K/120p (4 pcs of 4K/120p) is transmitted by 4 slot units in one VG-876/879. This unit requires custom cables, please contact your local agent for details.



iTMDS Unit (VM-1876-M9)

Able to support 4K/60p by one unit, 4K/120p (Cross split, Vertical 4-Split) by two units. LVDS output is possible by using IA-1540.



DVI/iTMDS to LVDS convertor IA-1540 Option

This option will convert VM-1876-M9 output (DVI/iTMDS) to LVDS. DVI single input to LVDS quad output.

Analog Unit (VM-1876-MA)

VGA, COMPOSITE, COMPONENT and Analog Audio output are available. Supports NTSC/PAL (COMPOSITE only) output.



Synchronizing Unit (VM-1876-MX)

8K/120p timing is output by synchronizing four units of VG-876/879. Please install one video interface and one synchronizing unit in each VG-876/879.

