

Digital Video Signal Generator

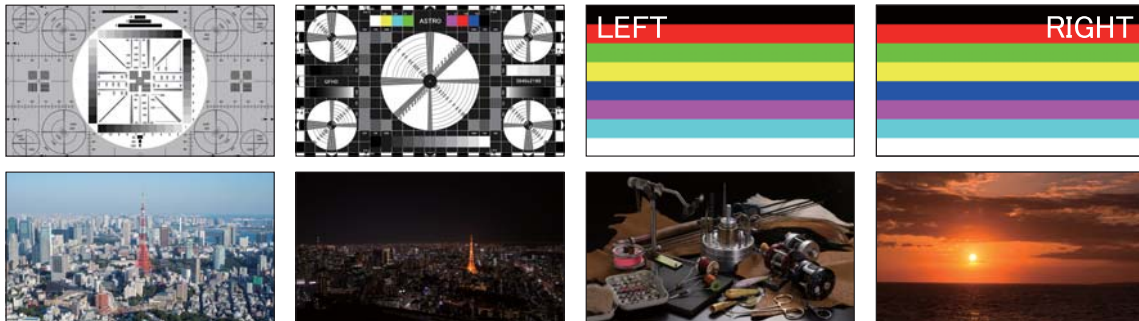
VG-876



Provisional ver.1.0

Main Features

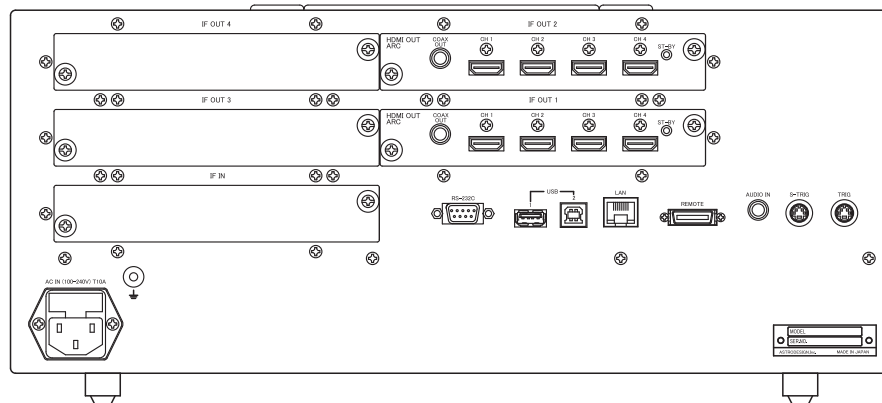
- Max.4 modules (HDMI, DisplayPort, V-by-One HS, 3G-SDI) selectable.
- HDMI 2.0 4K 50/60 (2160p) output (TBD).
- Max.8K/30p output by 4 module unit.
- Program data and operation are compatible with VG-870 series.
- Pre-installed 4K test patterns and 3D patterns. Optional 4K natural pictures.



Specifications

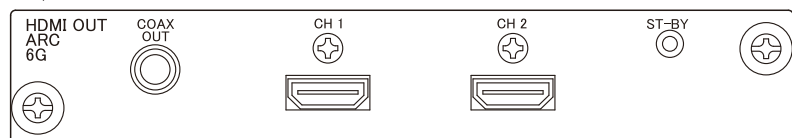
Video	Dot clock	Max. 1360 MHz
	H timing	Max. 300 KHz/8192 dots
	V timing	Max. 240 Hz/8192 lines
	Colors	8, 10, 12, 16 bit
Audio	Channel number	8 ch
	Sampling frequency	32, 44.1, 48, 88.2, 96, 176.4, 192 KHz
	Bit depth	16, 20, 24 bit

Rear View



Interface unit

HDMI 2.0 4K 50/60 (2160p) unit (TBD)
(VM-1876-M6)

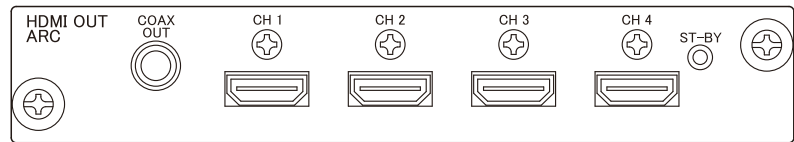


Video	Connector	HDMI x 2 ch
	Timing format	HDMI 2.0 50/60 (2160p) (TBD)
Audio	Output	HDMI: 8 ch, COAX: 1 ch (for ARC)
	Internal	Sine wave, Compressed audio (AAC/AC3)

Specifications

HDMI 300MHz unit (VM-1876-M0)

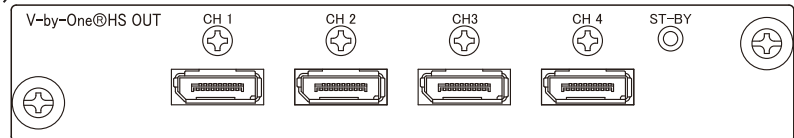
- 4K/60p (RGB/YCbCr 4:4:4) output from 4 channels
- AAC/AC3 (Dolby Digital) compressed audio supported (High bit rate audio is supported by option.)



Video	Connector	HDMI x 4 ch
	Dot clock	25 to 300 MHz (TMDS Clock: 25 to 300MHz)
	Colors (Max)	RGB each 12 bit
Audio	Output	HDMI: 8 ch, COAX: 1 ch (for ARC)
	Internal	Sine wave, Compressed Audio (AAC/AC3)

V-by-One®HS unit (VM-1876-M2)

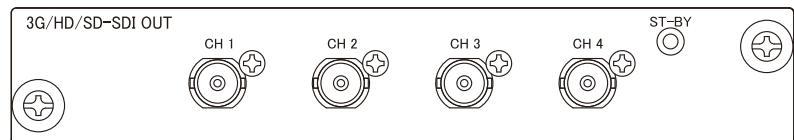
- 4Lane x 4ch output.
One unit can output 4K/120p and 8K/30p.



Video	Connector	4 ch (4 lanes per one channel)
	Dot clock	8 bit/10 bit: 20 to 85 MHz, 12 bit: 20 to 75 MHz (per lane)
	Colors	8, 10, 12 bit
	Format	RGB

SDI unit (VM-1876-M5)

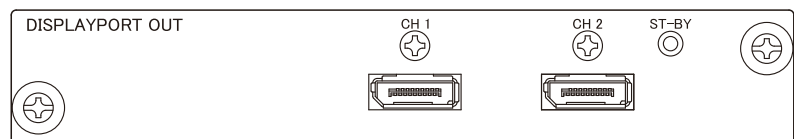
- 3G-SDI, HD-SDI (Single /Dual Link), SD-SDI are supported by 4 SDI channels.
- 4K supported by quad link.



Video	Connector	SDI x 4 ch
	Format	SMPTE 259M (SD-SDI standard) SMPTE 274M, 296M, 372M, 428.1M (HD-SDI standard) SMPTE 425M, 428.1M (3G-SDI standard)
	Colors	10, 12 bit
Audio	Output	48 KHz sampling frequency. Max 8 ch embedded
Others	Payload	SMPTE 352M (Standard or 4 bytes code setting)
	Time code	Free-run time code (Drop frame can be set when using 1/1.001 frequency.)

DisplayPort unit (VM-1876-M1)

- DisplayPort Ver1.2a supported.
4K/60p output from one channel.
- Multistream function (2 different timings can be output.)



Video	Connectors	DisplayPort x 2 ch (Ver1.2a)
	Dot clock	25 to 600 MHz (per channel)
	Format	RGB, YCbCr 4:4:4/4:2:2
	Lane	1, 2, 4 Lanes (per channel)
	Colors	8, 10, 12 bit
	Multistream	Max 2 streams
Audio	Output	8 ch
	Internal	Sine wave, Compressed Audio (AAC/AC3)