



ASTRODESIGN Video Signal Generator Comparison Table

Jan. 2021

| |  |  |  |  |  |  |  |  |  |
|--|---|---|---|--|---|---|---|---|---|
| Application | R&D | R&D | QC, Production | R&D, QC, Production | QC, Production | R&D, QC, Production | R&D | R&D, QC, Production | QC, Production |
| Slot type | 4 slots | 4 slots | 2 slots | | | | 3 slots | 3 slots | |
| HDMI Ver. | 2.1 (VM-1876-MD) | 2.0 (VM-1876-M8) | 2.0 (VM-1876-M8) | 2.1 | 2.0 | | 1.4 | 1.4 | 1.4 |
| Max. Resolution (HDMI) | 8K/60p (YCbCr420) FRL | 4K/60p (YCbCr444) | 4K/60p (YCbCr444) | 8K/60p (YCbCr420) FRL | 4K/60p (YCbCr444) | | 4K/60p (YCbCr420) | 4K/60p (YCbCr420) | 2K |
| SDI | 12G-SDI (VM-1876-MB) Up to 4K60p | 3G-SDI (VM-1876-M5) | 3G-SDI (VM-1876-M5) | | | 12G-SDI 8K60p(2SI) by 4CH 4K120p(2SI) by 2CH | 3G-SDI (VM-1821) | 3G-SDI (VM-1821) | |
| DisplayPort | Ver1.2a (VM-1876A-M1) | Ver1.2a (VM-1876A-M1) | Ver1.2a (VM-1876A-M1) | | | | Ver1.1a (VM-1820A, 1826) | Ver1.1a (VM-1820A, 1826) | Ver1.1a |
| V-by-One® HS | VM-1876-M2 (16-lane/board) (4K120p/board) | VM-1876-M2 (16-lane/board) (4K120p/board) | VM-1876-M2 (16-lane/board) (4K120p/board) | | | | VM-1825 (8-lane/board) (4K120p by 2 boards) | VM-1825 (8-lane/board) (4K120p by 2 boards) | |
| 8K/120p | V-by-One® HS (64-lane) by 4 units synchronize. | V-by-One® HS (64-lane) by 4 units synchronize. | | | | 12G-SDI (8CH) by 2 units synchronize (2SI) | | | |
| DVI | VM-1876-M9 | VM-1876-M9 | VM-1876-M9 | | | | VM-1814, 1824, 1824-A | VM-1814, 1824, 1824-A | |
| iTMDS | VM-1876-M9 | VM-1876-M9 | VM-1876-M9 | | | | VM-1824, 1824-A | VM-1824, 1824-A | |
| LVDS | VM-1876-M9 + IA-1540 converter | VM-1876-M9 + IA-1540 converter | VM-1876-M9 + IA-1540 converter | | | | VM-1815 | VM-1815 | |
| Analog | VM-1876-MA | VM-1876-MA | VM-1876-MA | | ✓ | | VM-1811, 1812 | VM-1811, 1812 | ✓ |
| PC Control (Command) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| PC Control (SP-8870) | ✓ | ✓ | ✓ | | ✓ | | ✓ | ✓ | ✓ |
| VT-8500-0006 HBR Audio | Option (HDMI) | Option (HDMI) | Option (HDMI) | | | | Option (HDMI) | Option (HDMI) | |
| VT-8500-0021 MPEG-4 AAC Audio | Option (HDMI) | Option (HDMI) | Option (HDMI) | | | | | | |
| SP-8871 Image conversion tool | ✓ | ✓ | ✓ | | ✓ | | ✓ | ✓ | |
| VT-7009 HDR libraries | ✓ | ✓ | ✓ | ✓ | | | | | |
| VT-7010 HDR libraries 8K Monoscope | ✓ | ✓ | ✓ | ✓ | | | | | |
| VT-7007 ITE's 2K,4K,8K image libraries | ✓ | ✓ | ✓ | ✓ | | | | | |
| VT-7012 Dolby Vision test pattern | ✓ | ✓ | ✓ | | | | | | |
| VT-7013 HDR10+ libraries | ✓ | ✓ | ✓ | | | | | | |