

## Overview:

This Signal Generator is a portable test tool that is able to generate SD/HD/3G SDI and HDMI 2.0 test patterns in a full range of resolutions up to 4K@ 60Hz (4:4:4). The unit assists users in validating the capabilities and proper operation of their sink devices. The user may select from various test pattern, resolutions, refresh rates, color spaces and other related parameters. When used with the 500831 Signal Analyzer, a useful set of cable connectivity/quality tests, and device compatibility tests can be performed to help identify problems. The device is an exceptional tool at an attractive price for any AV engineer/developer, Integrator and installer.

The Signal Generator is a portable device which can be used anytime you need it and anywhere, making it an invaluable tool. The unit supports an internal rechargeable Lithium-ion battery, allowing the device to be operated autonomously for up to 5 hours per charge.

## Applications:

- Testing AV sink devices
- Testing AV transmission infrastructure



## **Key Features:**

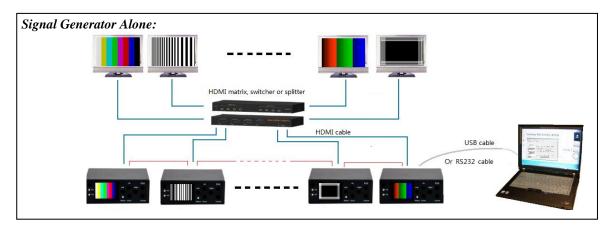


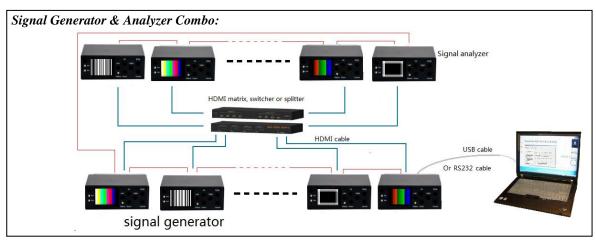
- **Portable Signal Generator** for autonomous operation anytime and anywhere!
- Supports up to 5 hours of operation on a single charge via an internal rechargeable Lithium-ion battery
- Supports HDMI up to 4K/60 & 3D, and 3G-SDI
- Supports RGB4:4:4, YUV4:2:2, YUV4:2:0 & Deep Color
- Supports 33 preset patterns & 32 preset resolutions
- 3" LCD panel for pattern preview & menu settings
- Supports 7 audio sample rates
- Supports HDCP on/off, for testing HDCP 2.2 & 1.4
- Supports EDID management
- Locally or remotely managed via RS232 or USB
- Supports an RS232 cascade for management
- Free Windows management software

| Specifications                         |   |
|--|---|
| Environment                            | HDMI 2.0 and 3G-SDI   |
| Devices                                | Testing projectors, monitors, and TV displays. Plus cable infrastructure when paired with 500831.   |
| HDMI Signal Support                    | Up to HDMI 2.0/DVI  |
| SDI Signal Support                     | SD-SDI, HD-SDI and 3G-SDI   |
| HDCP Support & Control                 | Supports HDCP 2.2 and 1.4, with On/Off control.   |
| Video Bandwidth                        | Up to 18.0GHz (6.0GHz per channel).   |
| Color Depth                            | 24bits,30bits,36 bits,48bits  |
| Color Space                            | RGB444,YUV444,YUV422,YUV420 (HDMI 2.0 only)   |
| Resolution/Refresh Rate Presets        | 32 preset resolutions: 4K/30, 4K/25, 4K/24, HDMI2.0 4K/60, HDMI2.0 4K/60, 720P-3D, 1080P-3D,  |
|  | Auto modes: one auto mode.  |
| User Defined Resolutions/Refresh Rates | 10 configurable presets.  |
| Supported Patterns                     | 33 preset patterns (32 2D pattern and one 3D pattern)   |
| Audio Bit Depth                        | 16bit,20bit,24bit   |
| Audio Sample Rate                      | 32K,44K,48K,88K,96K,176K,192K   |
| Vertical Frequency Range               | ≤ 120Hz   |
| Connectors                             | One (1) HDMI connector for HDMI video-out. One SDI (BNC) connector for SDI video-out. One (1) S/PDIF connector for digital audio-in. One (1) 3.5mm connector for analog audio-in. One (1) RS232 DB9 connector for management. One (1) RS232 terminal block for cascading management port. One (1) USB connector for management One (1) 2.1mm locking power connector. |
| Power Source                           | One (1) 110/240VAC to 5VDC @ 1A power supply, with interchangeable blades for US, UK and EU. One (1) built-in (non-serviceable) rechargeable Lithium-ion battery supporting up to 5 hours of usage per charge. (Unit supports a power switch on rear. Battery charge duration may vary.)  |
| Power Consumption                      | 2W  |
| Temperature                            | Operating: 0° to 40°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing  |
| Enclosure                              | Metal   |
| Dimensions                             | 6.38" x 1.73" x 3.74" (162mm x 44mm x 95mm)   |
| Weight                                 | 1.14lbs (0.52kg)  |
| Compliance                             | Regulatory: FCC, CE, RoHS Flammability: 94V0  |
| Warranty                               | 2 years   |
| Order Information                      | 500830 HDMI 2.0/3G-SDI Signal Generator (UPC: 627699008300).  |
| Companion Product (sold separately)    | 500831 HDMI 2.0/3G-SDI Signal Analyzer.   |



## **Typical Application**







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HDMI 2.0/3G-SDI Signal Generator

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