

### 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

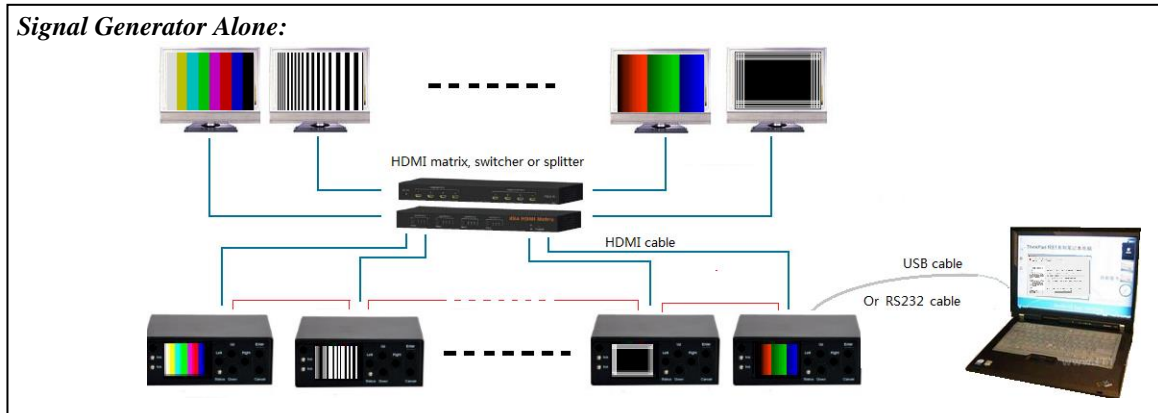
### Key Features:

- **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	6.69 x 1.97" x 4.29" (170mm x 50mm x 109mm), not including connectors
Weight	2.80lbs (1.27kg), shipping weight
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**

*Signal Generator Alone:*



*Signal Generator & Analyzer Combo:*

