

HDMI 2.0/12G-SDI Signal Generator

500830-V2



Overview

The HDMI 2.0/12G-SDI Signal Generator (model: 500830-V2) is a portable test tool that can generate HD/3G/12G 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

- Broadcast studios
- Television studios
- IT departments
- Datacentres
- AV testing environments

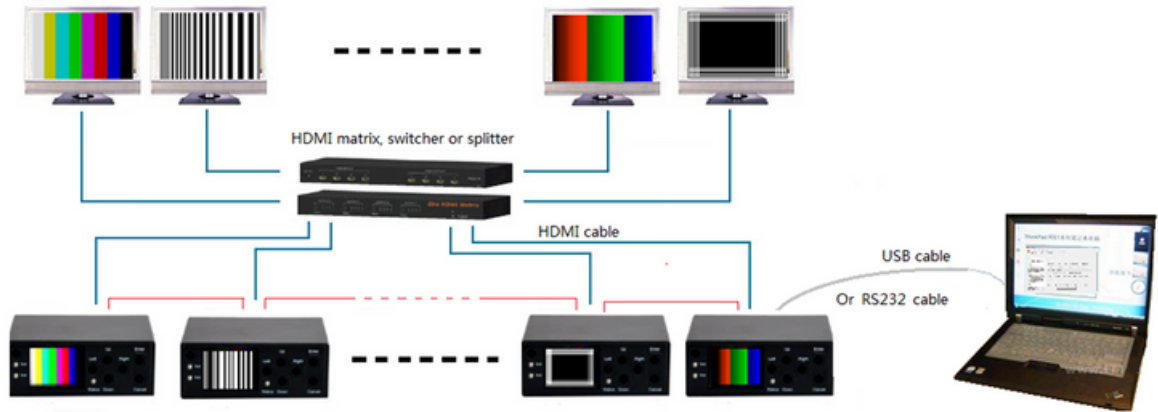
Key Features

- Supports HDMI up to 4K/60 & 3D, and 12G-SDI
- Supports RGB4:4:4, YUV4:4:4, YUV4:2:2, YUV4:2:0 & Deep Color
- Supports 37 preset patterns & 43 preset resolutions
- 3" LCD panel for pattern preview & menu settings
- Supports up to 7 audio channels
- Supports HDCP on/off, for testing HDCP 1.4 & 2.3
- Supports EDID management
- Locally or remotely managed via RS232 or USB
- Free Windows management software

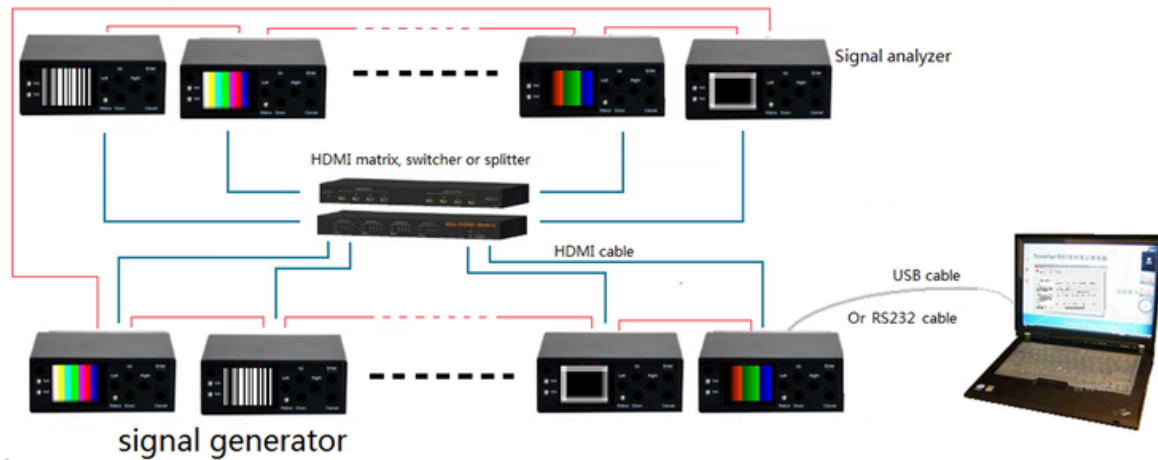
Specification	
Environment	HDMI 2.0 and 12G-SDI
Devices	Testing projectors, monitors, and TV displays. Plus cable infrastructure when paired with 500831.
HDMI Signal Support	Up to HDMI 2.0/DVI
SDI Signal Support	HD-SDI, 3G-SDI and 12G-SDI
HDCP Support & Control	Supports HDCP 1.4 and 2.3, with Enable/Disable control
Video Bandwidth	Up to 18.0GHz (6.0GHz per channel)
Color Depth	24bits, 30bits, 36bits and 48bits
Color Space	RGB444, YUV444, YUV422, YUV420 (HDMI 2.0 only)
Resolution/Refresh Rate Presets	43 preset resolutions: VESA, 480p, 720p, 1080i, 1080p, 2160p, 4K, 720P-3D, 1080P-3D, ... Auto modes: one auto mode
User Defined Resolutions/Refresh Rates	10 configurable presets
Supported Patterns	37 preset patterns (36 2D pattern and one 3D pattern)
Audio Bit Depth	16bit, 20bit and 24bit
Audio Sample Rate	32KHz, 44KHz, 48KHz, 88KHz, 96KHz, 176KHz and 192KHz
Vertical Frequency Range	≤ 60Hz
Connectors	One (1) HDMI connector for HDMI video-out One (1) SDI (BNC) connector for SDI video-out One (1) 3.5mm connector for analog audio-in One (1) RS232 DB9 connector for management One (1) RS232 DB9 Connector for cascading management port One (1) USB connector for management One (1) 2.1mm barrel jack power connector
Power Source	One (1) 110/240VAC to 12VDC @ 3A 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	11W
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-V2 HDMI 2.0/12G-SDI Signal Generator (UPC: 627699018309)
Companion Product	500831 HDMI 2.0/3G-SDI Signal Analyzer (sold separately)

Typical Application

Signal Generator Alone:



Signal Generator & Analyzer Combo:



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