**Overview:**

This Signal Analyzer is a portable test tool that is able to analyze 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 source devices. When used with the 500830 Signal Generator, 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 Analyzer 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 source devices
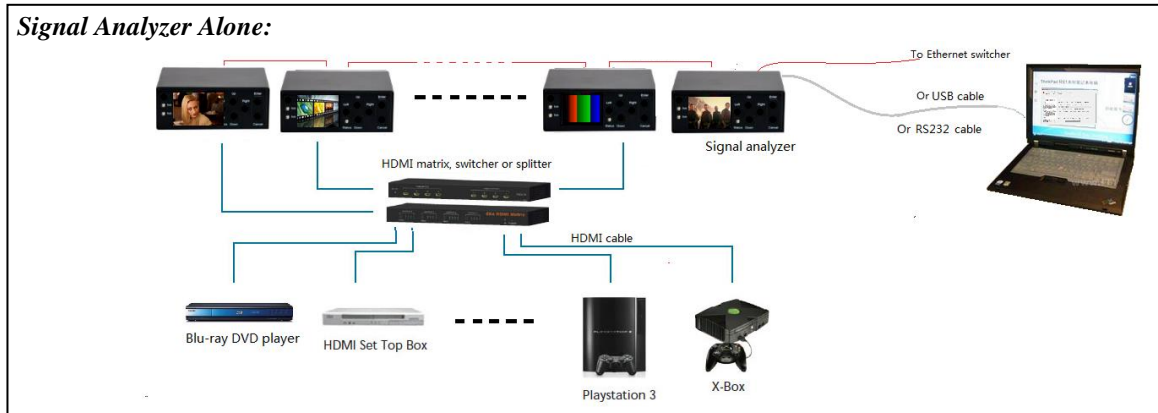- Testing AV transmission infrastructure

**Key Features:**

- **Portable Signal Analyzer** – 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 an HDMI cable test function
- Displays AV signal characteristics
- 3" LCD panel for pattern preview & menu settings
- Supports 7 audio sample rates
- VU meter supported on LCD
- Supports 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 DVD & blu-ray players, media players, and TV set-top boxes. Plus cable infrastructure when paired with 500830. |
| HDMI Signal Support | Up to HDMI 2.0/DVI. |
| SDI Signal Support | SD-SDI, HD-SDI and 3G-SDI |
| HDCP Support | HDCP 2.2 and 1.4. |
| 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) |
| 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-in.<br>One SDI (BNC) connector for SDI video-in.<br>One (1) S/PDIF connector for digital audio-out.<br>One (1) 3.5mm connector for analog audio-out.<br>One (1) RS232 DB9 connector for management.<br>One (1) RS232 terminal block for cascading management port.<br>One (1) USB connector for management<br>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.<br>One (1) built-in (non-serviceable) rechargeable Lithium-ion battery supporting up to 5 hours of usage per charge.<br>(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<br>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 | 500831  HDMI 2.0/3G-SDI Signal Analyzer  (UPC: 627699008317). |
| Companion Product (sold separately) | 500830  HDMI 2.0/3G-SDI Signal Generator. |

_____

## Typical Application



*Signal Analyzer Alone:*

To Ethernet switcher

Or USB cable

Or RS232 cable

Signal analyzer

HDMI matrix, switcher or splitter

HDMI cable

Blu-ray DVD player

HDMI Set Top Box

Playstation 3

X-Box



*Signal Generator & Analyzer Combo:*

Signal analyzer

HDMI matrix, switcher or splitter

HDMI cable

USB cable

Or RS232 cable

signal generator

**MuxLab Inc.**
2321 Rue Cohen, Montreal, Quebec, Canada, H4R 2N7
Tel: (514) 905 0588 Fax: (514) 905 0589
Toll Free:1 877 689-5228
E-mail: info@muxlab.com
www.muxlab.com