



# HDMI 2.0/12G-SDI Signal Analyzer

500831-V2



## Overview

The HDMI 2.0/12G-SDI Signal Analyzer (model: 500831-V2) is a portable test tool that is able to analyze 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 source devices. When used with the 500830-V2 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

- 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 an HDMI cable test function
- Display AV signal characteristics
- 3" LCD panel for pattern preview & menu settings
- Supports up to 7 audio samples rates
- Supports HDCP 1.4 & 2.3
- Supports EDID management
- Locally or remotely managed via RS232 or USB
- Free Windows management software

## Specification

<b>Environment</b>	HDMI 2.0 and 12G-SDI
<b>Devices</b>	Testing DVD * blu-ray players, media players and TV set-top boxes. Plus cable infrastructure when paired with 500830-V2.
<b>HDMI Signal Support</b>	Up to HDMI 2.0/DVI
<b>SDI Signal Support</b>	HD-SDI, 3G-SDI and 12G-SDI
<b>HDCP Support &amp; Control</b>	Supports HDCP 1.4 and 2.3
<b>Video Bandwidth</b>	Up to 18.0GHz (6.0GHz per channel)
<b>Color Depth</b>	24bits, 30bits, 36bits and 48bits
<b>Color Space</b>	RGB444, YUV444, YUV422, YUV420 (HDMI 2.0 only)
<b>Audio Channel</b>	Up to 7 Audio Channels
<b>Audio Bit Depth</b>	16bit, 20bit and 24bit
<b>Audio Sample Rate</b>	32KHz, 44KHz, 48KHz, 88KHz, 96KHz, 176KHz and 192KHz
<b>Vertical Frequency Range</b>	≤ 60Hz
<b>Connectors</b>	<ul style="list-style-type: none"> <li>One (1) HDMI connector for HDMI video-in</li> <li>One (1) SDI (BNC) connector for SDI video-in</li> <li>One (1) 3.5mm connector for analog audio-out</li> <li>One (1) RS232 DB9 connector for management</li> <li>One (1) RS232 DB9 Connector for cascading management port</li> <li>One (1) USB connector for management</li> <li>One (1) 2.1mm barrel jack power connector</li> </ul>
<b>Power Source</b>	<p>One (1) 110/240VAC to 12VDC @ 3A power supply, with interchangeable blades for US, UK and EU.</p> <p>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.)</p>
<b>Power Consumption</b>	11W
<b>Temperature</b>	<p>Operating: 0° to 40°C    Storage: -20° to 85°C</p> <p>Humidity: Up to 95% non-condensing</p>
<b>Enclosure</b>	Metal
<b>Dimensions</b>	6.69 x 1.97" x 4.29" (170mm x 50mm x 109mm), not including connectors
<b>Weight</b>	2.80lbs (1.27kg), shipping weight
<b>Compliance</b>	Regulatory: FCC, CE, RoHS      Flammability: 94V0
<b>Warranty</b>	2 years
<b>Order Information</b>	500831-V2 HDMI 2.0/12G-SDI Signal Analyzer (UPC: 627699018316)
<b>Companion Product</b>	500830-V2 HDMI 2.0/3G-SDI Signal Generator (sold separately)

# Typical Application

