



SL-881 6G Handheld HDMI/MHL Audio and Video Generator/Analyzer

The SL-881 6G Handheld HDMI/MHL Audio and Video Generator/Analyzer (SL-881 AVG) is designed for testing source, sink, or repeater devices, and is compliant to the latest HDMI® 2.0a and MHL® 3.x specifications.

The SL-881 AVG can be used either to generate audio and video test patterns, or when equipped with optional features operate as a generator/analyzer to validate HDMI 2.0a Compliance Test Specification (CTS) test IDs for Status and Control Data Channel (SCDC) signals.

With its 4.3 inch color touch screen display and user friendly GUI, the SL-881 AVG is easy to use and is designed to expedite HDMI 2.0a- and MHL 3.x-compliant product development.



SL-881 AVG – Top View

KEY FEATURES & BENEFITS

UHD (6G, HDMI 2.0a) Audio and Video Pattern Generator

- Generates audio and video patterns for HDMI 2.0a and MHL 3.x, and analyzes video timings
- Features one HDMI input, two HDMI outputs, and one MHL micro-USB output
- Supports High Dynamic Range (HDR)

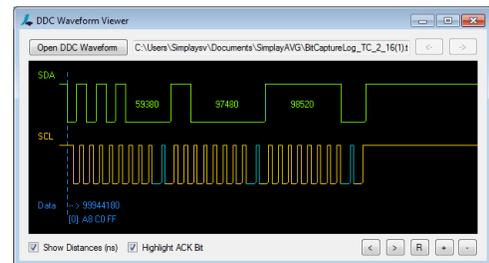
Portable Device

- Handheld size
- Rechargeable Li-Poly battery, up to 4-hour life-cycle
- 4.3 inch Color Touch Screen Display
- Selects, controls, and monitors testing

OPTIONAL FEATURES*

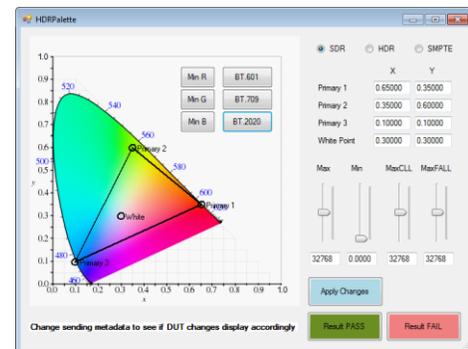
SCDC

- Verifies Status and Control Data Channel (SCDC) Compliance tests for HDMI 2.0a devices and systems
- DDC Waveform Viewer for SCDC Compliance tests



DDC Waveform Viewer

- Verifies High Dynamic Range (HDR) for HDMI 2.0a devices and systems
- HDR Debug test for HDMI 2.0a Sink devices



HDR Debug Test

DDC Real-time Monitor

- Monitors external DDC bus between source and sink devices
- Monitors input and output ports' DDC bus activities

EDID Editor

- Reads EDID from TV
- Edits EDID contents
- Programs EDID into HDMI input port

Cable Loop-back Test

- Test cable quality using HDMI input and output port

Console Control Mode

- Uses a console interface to control the SL-881 AVG platform

SPECIFICATIONS

Feature	Description	HDMI Output (1)	HDMI Output (2)	MHL Output	HDMI Input
Connector	Connector Type	Type A	Type A	Micro-USB	Type A
HDMI Version	2.0a	2.0a (6 Gb/s)	2.0a (3 Gb/s)		2.0a (6 Gb/s)
MHL Version	1.x, 2.x, 3.x			✓	✓
Resolution	Up to 102 standard timing (480p/576p/720p/1080i/1080p/1080p 100Hz/1080p120Hz/.../4k30/4k60)	✓	✓		✓
HDMI Max Resolution	4K x 2K UHD at 50/60 Hz	✓	✓		✓
MHL Max Resolution	4K x 2K at 30 Hz			✓	✓
Max TMDS Data Rate	6 Gb/s per channel	✓		✓	✓
Color Space	RGB/YC444/YC422	✓	✓	✓	✓
Color Depth	YC4:2:0	✓	✓		✓
Color Depth	24, 30, and 36 bit per pixel	✓	✓	✓	✓
Patterns	Up to 30 patterns	✓	✓	✓	✓
HDCP	HDCP 1.4 and HDCP 2.2	✓	✓	✓	✓
3D (CEA-861E;VESA)	Top-bottom, Left-right, FramePacking	✓	✓	✓	✓
DVI	Supports DVI mode	✓	✓		✓
Audio Sample Rate	32 kHz/44.1 kHz/48 kHz	✓	✓	✓	✓
Audio Bit Rate	16, 20, 24, 32	✓	✓	✓	✓
Audio Format	PCM/LPCM	✓	✓	✓	✓
Audio Channel	2	✓	✓	✓	✓
Audio Range	20 Hz – 20 kHz	✓	✓	✓	✓
Audio Content	Loads audio file from SD card	✓	✓	✓	✓
Audio Amplitude	0dB sine wave	✓	✓	✓	✓

SCDC Compliance Testing Items*

Source

HF1-27, HF1-17, HF1-19, HF1-20, HF1-23, HF1-29, HF1-53

Sink

HF2-11, HF2-34, HF2-44, HF2-45, HF2-47, HF2-48, HF2-49, HF2-50, HF2-12, HF2-16,
HF2-54, HDR Debug Test

Color Touch Screen Display

Screen	4.3 inch touch screen
Size (cm)	9.85 × 5.7
Size (in)	3.88 × 2.2
Color	24-bit RGB

Administration

Interfaces

USB Mini-B Peripheral	Connects to PC when running PC application
SD card	Updates firmware, supplies audio and EDID contents, up to 32 GB

Dimensions/Weight

Dimensions	
Size (cm)	18.2 × 11.1 × 6.2
Size (in)	7.2 × 4.4 × 2.4
Weight (g)	500

Power

AC Voltage	AC 100 – 240 V
Frequency	50 – 60 Hz
Power	5 V 3 A
Battery	Rechargeable Li-Poly 3200 mA, up to 4-hour life-cycle

*Notes: Requires the purchase of PC control Software license.

Specifications are based on hardware and firmware revisions available as of August 2015, and are subject to change without notice. HDMI, the HDMI logo and High-Definition Multimedia Interface, MHL, the MHL logo and Mobile High-Definition Link interface are trademarks or registered trademarks of HDMI/MHL Licensing LLC.

Simplay Labs

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