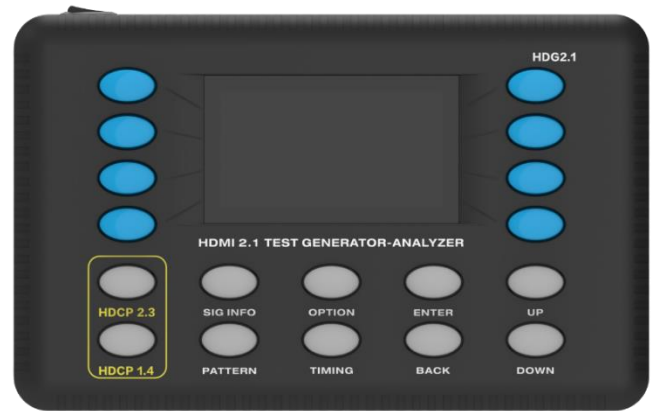


DVDO

DVDO-8KSGA-1

8K HDMI Signal Generator & Analyzer



DVDO-8KSGA-1 is a portable 8K HDMI signal generator and analyzer designed to verify that HDMI systems comply with HDMI 2.1 and HDCP 2.3 specifications.

It includes an HDMI input and HDMI output to test both source and display devices. It also includes separate optical audio input and output, allowing to route the audio signals separately.

DVDO-8KSGA-1 can output video signals with 64 different resolutions up to 8K@50/60Hz as well as 33 test patterns. It offers test and control functions for all HDMI parameters including color space, color depth, HDCP, EDID, HDR, CEC control, etc...

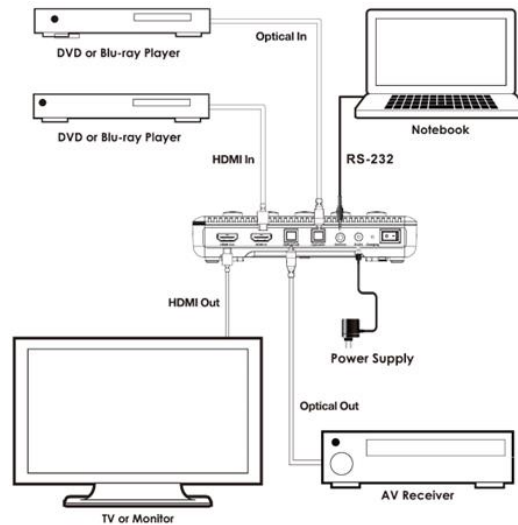
Features

- Outputs resolutions up to 8K@50/60Hz 4:2:0 10-bit and 40Gbps video bandwidth as specified in HDMI 2.1
- Up to 64 video resolutions and 33 patterns
- Color space: RGB/YCbCr444/YCbCr422/YCbCr420
- Color depth: 8/10/12-bit
- Built-in HDR test function in HDMI 2.1
- HDMI audio source can be from the internal audio or external S/PDIF input audio
- Internal audio signal supports LPCM 2CH format, 48kHz sample rate and 16bits width
- HDCP 2.3/1.4 encryption verification pass or fail indication
- EDID Read/Write functionality
- Analysis of Timing/Format/Info frame/HDCP of HDMI input signal
- CEC control
- Control via front panel buttons
- Portable design, built-in lithium battery of 2910mAh

Applications

- System Integration
- Custom Installation
- Manufacturing
- Engineering

Application Diagram



Technical Specifications

Technical	
HDMI Compliance	HDMI 2.1
HDCP Compliance	HDCP 2.3/1.4
Video Bandwidth	40Gbps
Video Resolutions	Up to 8K@50/60Hz (YUV4:2:0 10-bit)
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Color Depth	8/10/12-bit
Audio Formats	Internal HDMI: LPCM 2CH, 48kHz, 16bits External S/PDIF: LPCM 2/5.1CH, Dolby Digital, DTS 5.1 HDMI Pass-through: LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connections	
Inputs	1 x HDMI [Type A, 19-pin Female] 1 x Optical [S/PDIF]
Outputs	1 x HDMI [Type A, 19-pin Female] 1 x Optical [S/PDIF]
Control	1 x Service [3.5mm Mini-jack, Update port]
Mechanical	
Housing	Black Plastic Enclosure
Dimensions	165mm [W] x 103mm [D] x 37.4mm [H]
Weight	320g
Power Supply	Input: AC 100-240V 50/60Hz / Output: DC 5V/2A (US/EU standard, CE/FCC/UL certified)
Power Consumption	7.5W (max)
Operating Temperature	32 - 104°F / 0 - 40°C
Storage Temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no-condensing)