

DVDO

DVDO-4KSGA-1

4K HDMI Signal Generator & Analyzer

DVDO-4KSGA-1 is a compact 4K HDMI signal generator and analyzer designed to verify the HDMI compatibility of both source and display devices.

It supports resolutions up to 4K60 4:4:4 at 18 Gbps.

Its HDMI output can connect to a display and generate HDMI signals with different video resolutions or HDCP options to verify the display's capabilities.

Its HDMI input can connect to a video source and act as a display emulator to analyze the incoming HDMI signal including its HDCP content and signal status (5V, TMDS).

It features a 4-pin DIP switch to select the video resolution and HDCP mode when used as a signal generator and LED indicators showing HDCP and signal status when used as a display emulator.



Features

- HDMI 2.0 / HDCP 2.2 compliant, supports resolutions up to 4K60 4:4:4 at 18 Gbps
- Two modes: signal generator through HDMI output & display emulator through HDMI

Signal generator mode:

- Selectable video resolutions and HDCP modes with 4-pin DIP
- Output video resolutions: 4K@60Hz 4:4:4, 4K@60Hz 4:2:0, 4K@30Hz 4:4:4, or 1080p@60Hz
- HDCP modes: OFF, HDCP 1.4 or HDCP 2.2

Display emulator mode:

- 2 LED indicators for signal link and HDCP status
- USB powered when in signal generator mode. Powered by HDMI source when in display emulator mode
- Plug and play, no software or cables needed
- Extremely compact design

Applications

- System Integration
- Custom Installation
- Manufacturing
- Engineering

Application Diagram



Technical Specifications

Technical	
HDMI Compliance	HDMI 2.0
HDCP Compliance	HDCP 2.2/1.4
Input Video Resolutions	Up to 4K@60Hz 4:4:4 18Gbps 8bit
Output Video Resolutions	Selectable 4K@60Hz 4:4:4, 4K@60Hz 4:2:0, 4K@30Hz 4:4:4 and 1080p@60Hz
Connections	
Inputs	1 x HDMI [Type A, 19-pin Female]
Outputs	1 x HDMI [Type A, 19-pin Female]
Control	1 x EDID / HDCP Control [4 pin DIP switch]
Power	1 x Power [Micro USB]
Mechanical	
Housing	Black Enclosure
Dimensions	75mm x 22mm x 19mm
Weight	65g
Power Supply	5V DC 1A (USB power cord)
Power Consumption	2W (max)
Operating Temperature	23 - 131°F / -5 - 55°C
Storage Temperature	-13 - 158°F / -25 - 70°C
Relative Humidity	10 - 90% (non-condensing)