HDMI 2.1/HDCP 2.3 Support Protocol Analyzer

VA-1847

ASTRO

The VA-1847 is a protocol analyzer that can measure, analyze, and display HDMI 2.1 input/output signals. 8K/60p YC$_B$C$_R$ 4:2:0 and 4K/120p YC$_B$C$_R$ 4:4:4 timing.

It has a compact design that can be carried around, and is equipped with an LCD panel and speakers, so you can easily check the input video and audio at site.

Features

Receiver mode

● Receive FRL (maximum 4Lange 12Gbps) and TMDS signals in the Video Identification Code (VIC) of CTA-861-G. (10K not supported)

● Video/audio timing, InfoFrame measurement, HDCP status, SCDC register display possible

● Equipped with DDC/CEC line monitoring function, enabling SCDC and HDCP 1.4/2.3 analysis and CEC analysis.

● Able to receive and analyze DSC1.2a encoded signals.

Repeater mode

● This unit can be set as a repeater, and HDMI protocol analysis of HDMI output devices is possible.

Generator mode

● Output of FRL (maximum 4Lane 12Gbps) and TMDS signal in VIC of CTA-861-G is possible (10K not supported)

● HDCP 1.4/2.3 output ON/OFF can be set

Through mode

● DDC/CEC line analysis is possible without receiving video signals using a dedicated through cable. (option)

ARC/eARC

● ARC/eARC reception and analysis is possible

● Output with arbitrary settings of eARC is possible

Compliance test

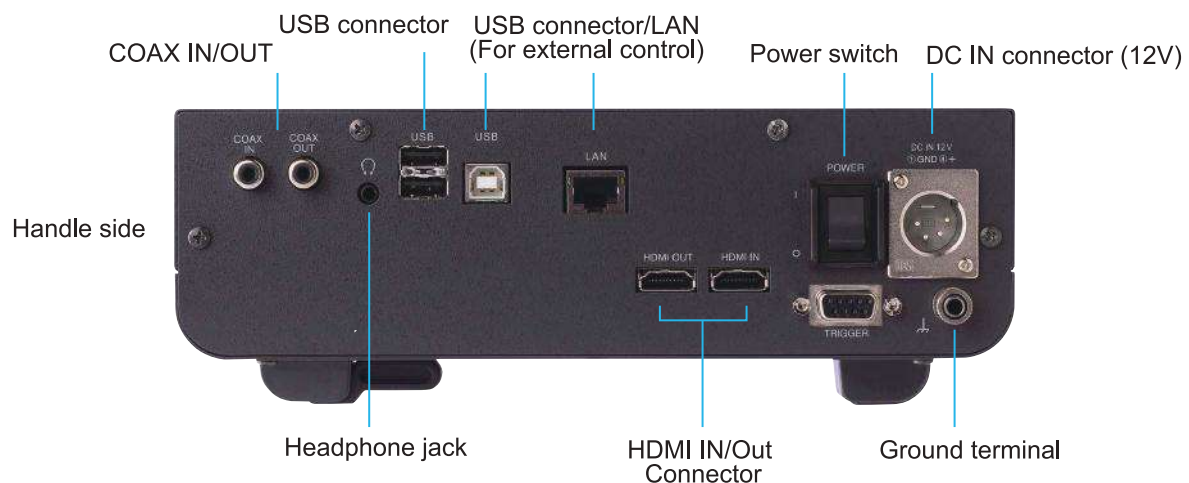● HDMI 2.1 CTS pretest is possible

EDID

● EDID edit function, EDID display read from sink device, and save are possible.

● EDID emulation function.

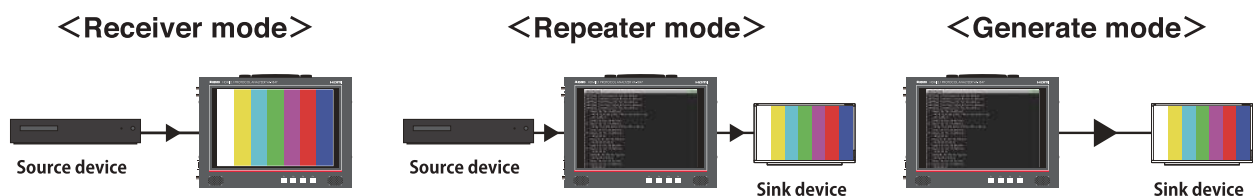### Equipped with a 12 inch touch panel and built in speaker

● Up to 8 windows can be displayed at the same time. Intuitive operation withtouch panel is possible.

● With the built in speaker, audio check at site is possible.

Side interface

COAX IN/OUT
USB connector
USB connector/LAN (For external control)
Power switch
DC IN connector (12V)

Handle side

Headphone jack
HDMI IN/Out Connector
Ground terminal

Use example

＜Receiver mode＞

Source device

＜Repeater mode＞

Source device

Sink device

＜Generate mode＞

Sink device

Specifications

HDMI Input/Output

Video	Dot Clock	TMDS 25 to 2376 MHz, FRL 3G3L/6G3L/6G4L/8G4L/10G4L/12G4L
	Color Format	RGB/YC$_B$C$_R$ 4:4:4/4:2:2/4:2:0
	Video Data No. of Bit	8, 10, 12-bit
Audio	Sampling Frequency	32 to 192kHz (L-PCM 2 to 8ch)
	Format	IEC 60958, 61937
	Data Resolution	16, 20, 24-bit
EDID		Compatible with Ver.1.4 (DDC2B)
HDCP		Compatible with Ver.1.4/2.3
DSC 1.2a		Input/output
eARC		Input/output
ARC		Input

General Specifications

Power Requirements	DC12V AC/DC adaptor included (100-240V)
Power Consumption	48W MAX
Operating Temperature Range	0 to 40°C
Operating Humidity Range	20 to 80% (No Condensation)
Dimensions	319 (W)×232 (H)×69 (D) mm (Excluding Protrusions)
Weight	Approx. 2.42kg

* The specifications are subjected to change without notice.

VA1847-4605E-3

https://www.astrodesign.co.jp