

# **HDMI 2.1 Protocol Analyzer**

VA-1847





# **Features**

### Timing Format (Receiver Mode, Generate Mode)

- FRL (Fixed Rate Link) of 4 lanes of 12Gbps and TMDS of 3 lanes of 6Gbps signals are supported. (CTA-861-G)
- 8K/60p YCBCR 4:2:0 and 4K/120p YCBCR 4:4:4 are supported. (10K timings are not supported.)

#### **Receiver Mode**

- Information display: video/audio timing, InfoFrame, HDCP status and SCDC register status. Encoded signal by DSC1.2a is supported as well.
- Monitoring of CEC line and DDC line which is useful for confirmation of SCDC and HDCP.
- Log function: video, audio, InfoFrame, HDCP, CEC and DDC.

## **Repeater Mode**

VA-1847 is emulated as a repeater device, and user can confirm their products performance when connecting to the repeater.

#### ARC/eARC function

Send/receive and analyze the ARC/eARC signals.

#### **EDID**

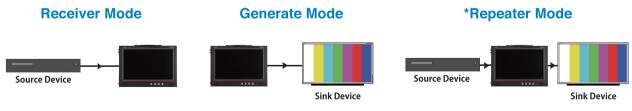
Load the EDID of the Sink, Edit EDID data.

#### **Compliance Test**

Pre-test of HDMI 2.1 Compliance Tests.

# **Test Function (trouble shooting mode)**

Perform series of confirmation for the trouble that frequently appears in between HDMI devices connection. 12-inch Touch Panel Display



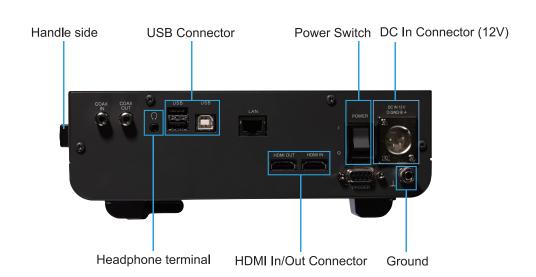
\* No video, only on-screen display











COAX IN/OUT, USB (PC communication) and Lan ports will be supported in future.

#### **Update Schedule:**

- FRL, TMDS timing formats are increased accordingly.
- October 2019

The following items to be supported: Repeater Mode, ARC Send/Receive function, Test function (trouble shooting mode), Terminal commands operation

# **Specifications**

# **HDMI In/Out Specifications**

Items	Description	
Video	Dot Clock	25 to 2376 MHz
	Color Format	RGB/YC <sub>B</sub> C <sub>R</sub> 4:4:4/4:2:2/4:2:0
	Data Bit	8, 10, 12-bit
Audio	Sampling Frequency	32 to 192 kHz (L-PCM 2 to 8ch)
	Format	IEC 60958, 61937
	Bit	16, 20, 24-bit
EDID		Ver1.4 (DDC2B)
HDCP		Ver1.4/2.3
ARC/eARC		Send and Receive

# **General Specifications**

Item	Description	
Power Requirements	DC12V AC/DC Adaptor (100 to 240V)	
Power Consumption	48W MAX	
Operating Temperature Range	0 to 40°C	
Operating Humidity Range	20 to 80% (No Condensation)	
Dimensions	430 (W) × 44 (H) × 351 (D) mm (Excluding Protrusions)	
Weight	Approx. 2.42kg	

