

Supports automatic inspection of HDMI 2.1 compliant devices.

VA-1849

HDMI 2.1 Source Tester



Outline of product

VA-1849 is a source tester that supports HDMI 2.1 signal FRL (up to 12 Gbps/4 lanes) and TMDS. It supports the measurement and analysis of the source DUT by setting the control and each test item with commands via PC. It enables automated inspection on the production line and in the QC department.

Features

●Sink function

Video/audio timing, InfoFrame measurement, HDCP 1.4/2.3 authentication, and EDID/SCDC communication analysis.

It supports up to 8K/60p YC_BC_R 4:2:0 and 4K/120p YC_BC_R 4:4:4 video signals in uncompressed mode. It supports up to 8K/60p YC_BC_R 4:4:4 video signals in compression (DSC) mode.

●Testing function

By comparing the internal pattern with the input pattern, it is capable of measuring the protocol details such as bit drop and color defects, as well as automatic inspection for FRL link training (comparison inspection is supported up to 4K/60p).

It is possible to confirm whether the packet data of the input signal matches the expected value.

It is possible to confirm whether the input audio signal is within the allowable value.

●Source function

Compatible with CTA-861-G and VESA Display Monitor Timing (DMT) compliant video signal output. Each parameter of the InfoFrame can be set.

●External control

Supports sending and receiving commands such as measurement results and parameter settings via LAN, USB-TypeB and RS-232C.

Original control software can be developed by the combination of commands.

●Saving results and logs

Analysis data and test logs can be saved in a USB flash drive.

[Pass/Fail Judgment of Comparative Test]

Internal video patterns are created from the color palette, and inspection is performed by comparing them with the input video patterns.

Error pixel values and colors with (X,Y) coordinates are displayed and the difference between A and B is analyzed.

The color palette is 16 colors, and up to 3 lines of color information patterns can be registered for comparison.

Specifications

HDMI I/O

Video	Dot Clock	TMDS 25MHz~2376MHz、 FRL 3G3L/6G3L/6G4L/8G4L/10G4L/12G4L
	Color Format	RGB, YC _B C _R 4:4:4/4:2:2/4:2:0* *YC _B C _R 4:2:0 does not support comparison checking of video data.
	Color Depth	8,10,12 bit
Audio	Sampling Frequency	32kHz~192kHz (L-PCM 2~8ch)
	Format	IEC 60958、 61937
	Data Resolution	16、 20、 24bit
EDID		Ver.1.4(DDC2B)
HDCP		Ver.1.4/2.3
Number of Ports		2 inputs, 1 output*. *In case of two inputs at the same time, select one of the two.

External Control

USB	Type A	Used to connect a USB flash drive. USB flash drive is not included.
	Type B	Connect to computer and control is carried out via terminal commands
LAN		Connect to computer and control is carried out via terminal commands
RS-232C		Connect to computer and control is carried out via terminal commands

General Specifications

Power Requirements	AC 100-240V
Power Consumption	48W MAX
Operating Temperature	0~40°C
Operating Humidity	20~80%RH (no condensation)
Dimensions	270(W) x 44(H) x 270(D) mm(excluding protrusions)
Weight	Approx. 2 kg

Note: Data subject to change without prior notice.

ETIMS

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