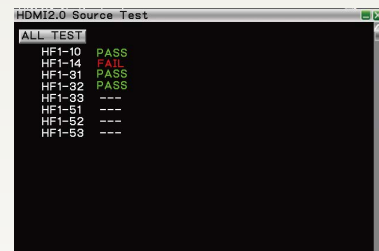


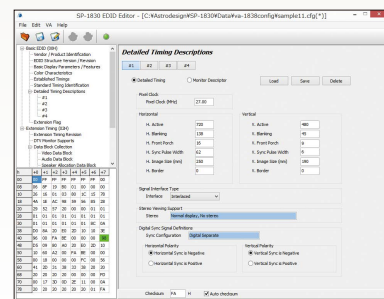
Functions

Compliance Test (HDMI 2.0, HDCP 2.2)



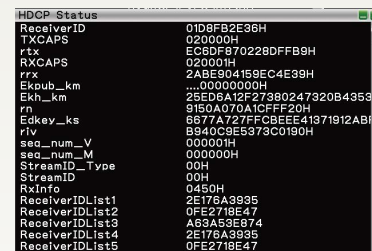
HDMI 2.0 MOI (Method of Implementations) 's can be tested.
HDCP 2.2, HDMI 1.4b, CEC 1.4b, HDCP 1.4 pre-test function are also available.

EDID Edit Software SP-1830



Standard accessory of VA-1842. This software can capture and edit EDID data. Users can then transfer it to VA-1842. VA-1842 can simulate custom made EDID's.

HDCP Status

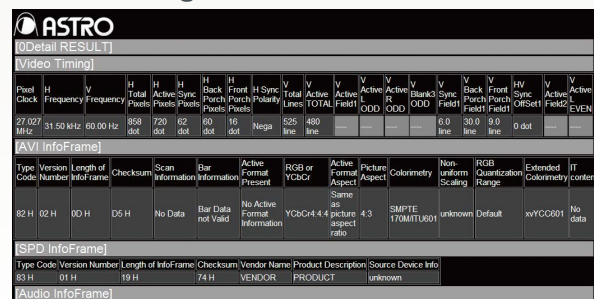


HDCP 2.2 certification status is displayed.

Log



Video Timing and InfoFrame



Video/audio timing, InfoFrames, HDCP, ARC (Audio Return Channel) and Compliance test results are saved as log data.

Specifications

HDMI Input / Output			
Pixel Clock		25 to 600MHz (Data Rate: Max.6Gbps)	
Color Space		RGB / YCbCr 4:4:4, 4:2:2, 4:2:0	
Audio	Input / Output	Sampling Frequency	32 to 192kHz (L-PCM 8ch) , 768kHz (HBR) ※ There is timing limitation
		Audio Type	ISC 60958, 61937
		Bit depth	16, 20, 24-bit
HDCP		Ver.1.4, 2.2	
Repeater Function		Available (MAX 16 sets)	
DDC		DDC2B	
E-EDID		Ver.1.4	
Other Interface			
USB	HOST×2	For USB mouse control and USB memory	
	DEVICE	For PC control with Utility Software	
LAN		For PC control with Utility Software	
COAX Input / Output	Audio Type	SPDIF, IEC60958, 61937	
	Sampling Frequency	32 to 192kHz (L-PCM 8ch)	
	Bit depth	16, 20, 24-bit	
Trigger (Optional)		Trigger or I2S output	

The terms of HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries. Product specifications and appearance are subject to change without notice for improvement.



HDMI 2.0a/HDCP 2.2 Protocol Analyzer VA-1842

HDMI 2.0 and HDCP 2.2 Compliance Test Functions



➤ HDMI 4K/60p YCbCr 4:4:4 Signal Analysis and Generation

➤ Real Time Data Analysis as a Stand Alone Unit

➤ ITU-R BT.2020 Color Analysis

➤ HDR (High Dynamic Range) InfoFrame Analysis

ALTRONICS
CS 69024, F-69811 Tassin

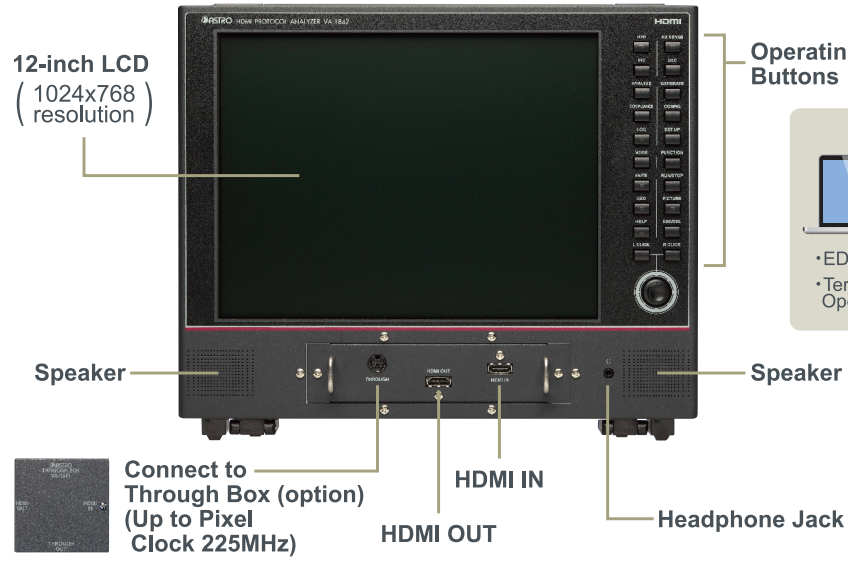
Tel : +33 (0) 472 370 470



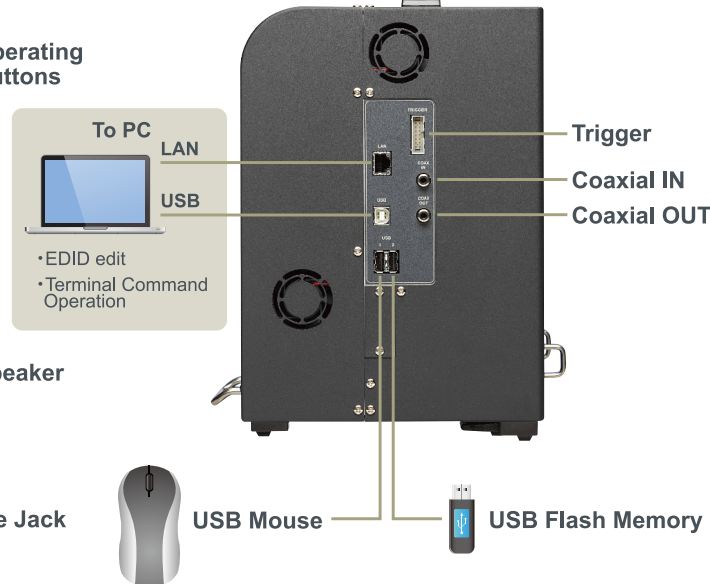
info@altronics.fr
www.altronics.fr

Appearance

FRONT

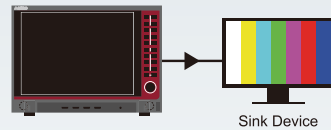


SIDE



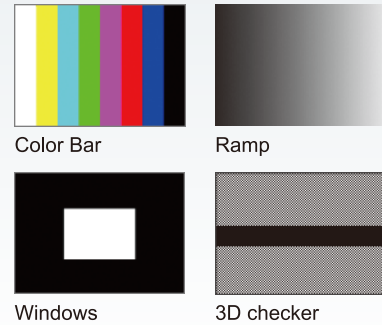
Functions

Generate Mode

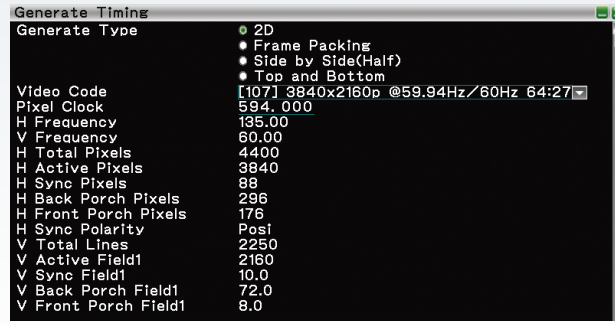


VA-1842 can be used as a simple signal generator. Capable of generating standard timings within the EIA CEA-861-F standard.

Pre-installed patterns

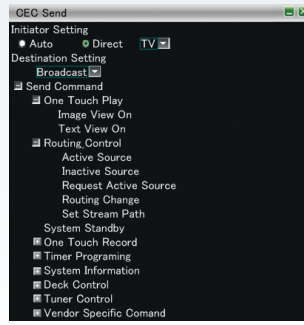


Timing Select



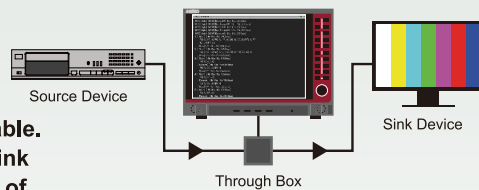
Pre-installed timing can be selected. 4K/60p YCbCr 4:4:4 timing is supported.

CEC Command Send



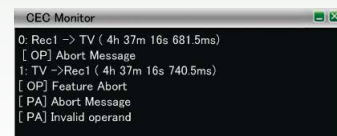
Select pre-installed commands.

Through Mode



VA-1842 will be emulated as a passive cable. The unit is placed between source and sink devices and will monitor communication of DDC/CEC lines. Log of testing can be saved. Option box is required to use this mode.

CEC Monitor



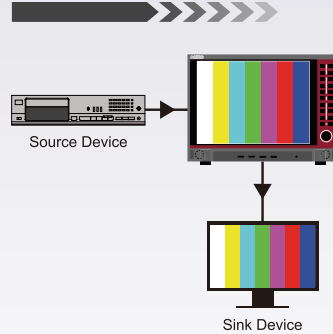
CEC command communication is viewed. Command details and time are displayed. Either hexadecimal or GUI display are selectable. This data can be saved as log data.

DDC Monitor



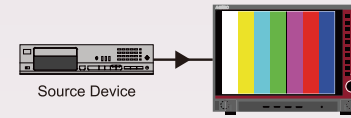
DDC line is monitored. EDID reading and HDCP certification can be confirmed. This data can be saved as log data.

Repeater Mode

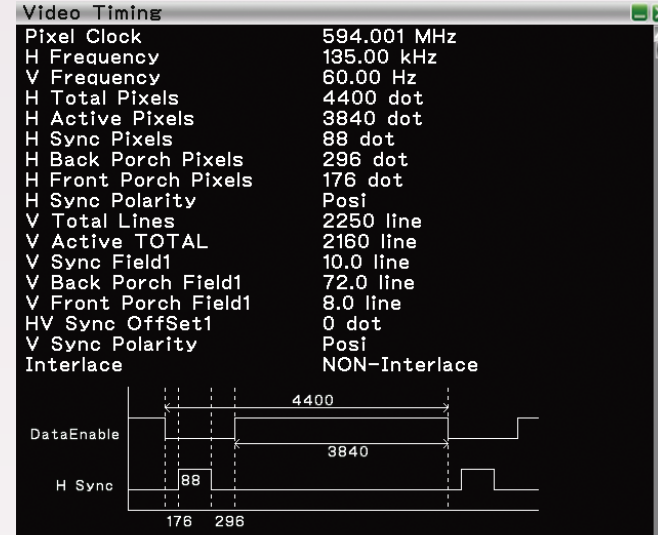


VA-1842 is emulated as a repeater device, such as an AV amplifier. Users will be able to confirm their products performance when connecting to repeater devices.

Receiver Mode

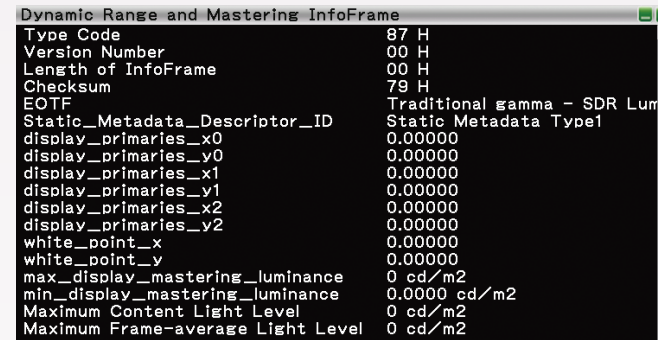


Video Timing



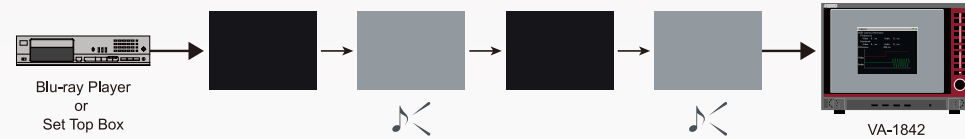
Up to 4K/60p YCbCr 4:4:4 input signal is displayed. Visual waveform of timing format is one of the units unique functions.

HDR Status



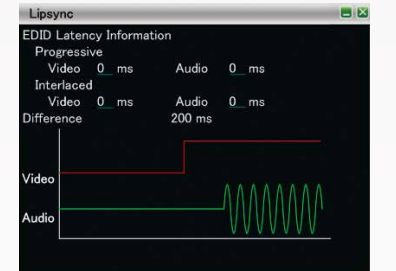
Dynamic Range and Mastering InfoFrame is displayed.

Lip Sync Function (To be Supported)

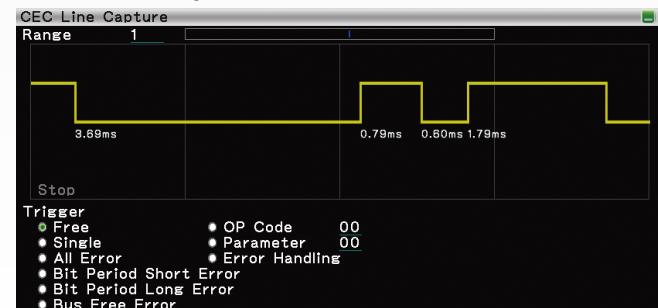


Delay between audio and video is measured.

Set Top Box or Blu-ray Player outputs lip sync test patterns, and VA-1842 will be able to measure delay time.



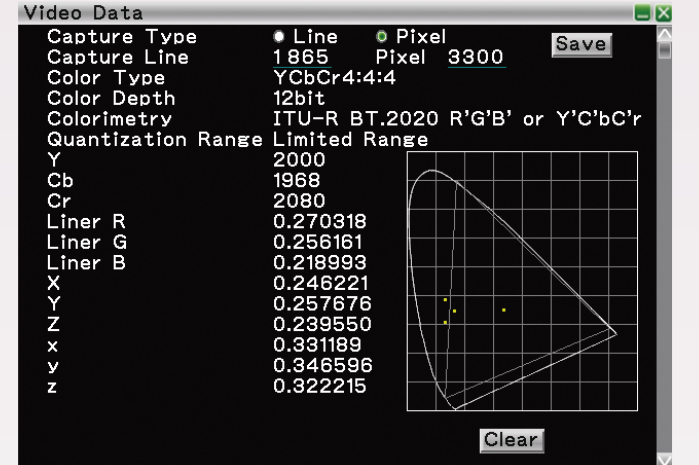
CEC Line Capture



This is useful for hardware engineer by checking waveform visually. By setting trigger to a certain OP Code or error, waveform freezes at that moment and can be easily debugged.

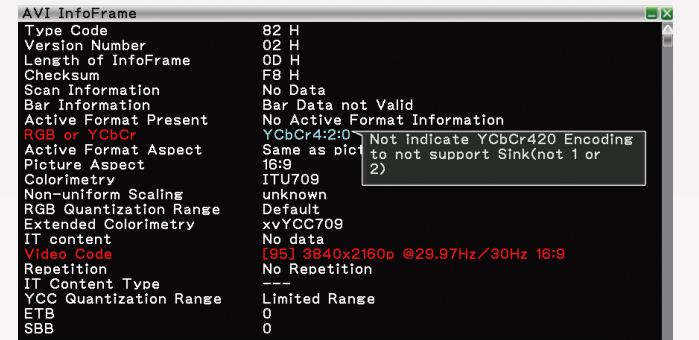
Emulates TV or other sink devices by preloaded EDID. Able to analyze video timing, HDMI InfoFrame, HDCP, DDC, SCDC and CEC status.

Video Data



The video data of a designated line or pixel is viewable. ITU-R BT.2020 color format is supported. Either XYZ Color Diagram or RGB Color level display can be selected.

HELP Function



When input signal has an error, correct information is presented.