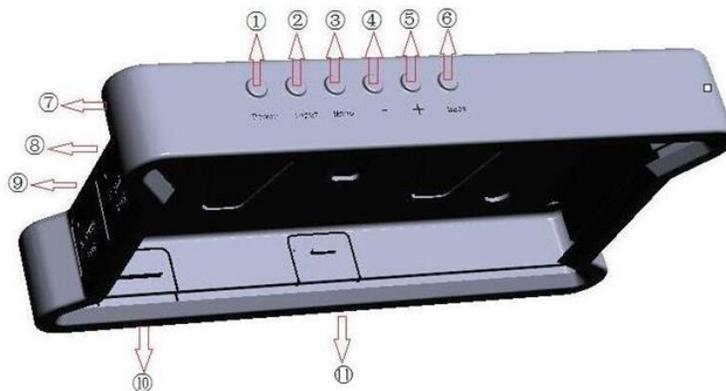# AVA HDMI® Display Tester

BL-526-105

Button and Port Layout:

① **Power**: Display Tester On/Off

② **Input**: Changes Input modes on Display Tester

③ **Menu**: Access to the Settings Menu

④ **–** : Menu navigation "Down"

⑤ **+** : Menu navigation "Up"

⑥ **Back**: Returns to the previous menu

⑦ **Speaker**: Audio output (fixed)

⑧ **Test Input A:** To be used in "HDMI Test Input" mode for cable testing

⑨ **Test Input B:** To be used in "HDMI Test Input" mode for cable testing

⑩ **Source Input:** To be used in "HDMI Display Input" mode for source testing

⑪ **Charging Port:** 5VDC Micro USB Port

Getting Started: PLEASE READ ENTIRE CONTENTS OF THE MANUAL BEFORE OPERATION

Powering On/Off:

1. To power on the unit, press and hold the ① "Power" button for 3 seconds until the pop-up menu shown below appears (Fig 1).
2. *To power off the unit, press and hold the ① "Power" for 3 seconds and release.*

(Fig 1)

Changing Input Modes:

1. Press ② **Input** to toggle between "HDMI Test Input" and "HDMI Display Input"
2. Selecting the HDMI Test Input will display the 19 Pin Test screen
3. Selecting the HDMI Display Input will display a video signal when present
4. The ② **Input** is the primary function button to conduct both test features

Menu and Settings Navigation:

1. To access the device menu, press the ③ **Menu** button.
2. To navigate the menu use the ④ " **–** " button to navigate down on the menu and use the ⑤ " + " to navigate up on the menu
3. Once in the menu, use the ③ **Menu** button to select the highlighted option
4. To go back in the menu, use the ⑥ **Back** button to go back one step.

Color Menu:

The Color menu allows for manual adjustments of the display picture. It is recommended to keep the values set to the default values: *(Fig 2)*

1. Brightness: Adjust the display brightness   Default value is 50
2. Contrast: Adjust the display contrast   Default value is 50
3. Saturation: Adjust the color saturation   Default value is 50

(Fig 2)

OSD Menu:

Please note that the OSD Menu is only available while on the HDMI Display Mode

The OSD (on screen display) menu allows for manual adjustments of the parameters as seen below. It is recommended to keep the values set to the default values: *(Fig 3)*

1. Language: Adjust the system language   Default value is English
2. H Position: Adjust the horizontal position of the image   Default value is 50
3. V Position: Adjust the vertical position of the image   Default value is 50
4. OSD Timeout: Define the time for the OSD to timeout   Default value is 10 seconds
5. Transparent: Adjust the transparency of the menu   Default value is Off

(Fig 3)

Function Menu:

The Function menu allows for manual adjustments of other various functions. It is recommended to keep the values set to the default values: *(Fig 4)*

1. Reset   Reset system settings to default.
2. Display Ratio: Adjust the display ratio of the display.   Default value is 16:9
3. Sharpness: Adjust the sharpness of the display.   Default value is 50

(Fig 4)

HDMI Test Input Selection:

1. Using the ② **Input** button, select one of the two available testing modes.
    a. **HDMI Test Input:** Used for testing an HDMI Cable. For HDMI Test Input Mode, plug one end of the HDMI cable you need to test into ⑧ **Test Input A** port and the other end into ⑨ **Test Input B** port. For detailed examples of the HDMI Test Input Mode, please see the "HDMI Cable Testing" section.
    b. **HDMI Display Input:** Used for displaying a source input for playback. For HDMI Display Input Mode, plug one end of the HDMI cable to your source output and the other end into the ⑩ **Source Input** port. For detailed examples of the HDMI Display Input Mode, please see the "Source Display Testing" section.

HDMI Cable Testing:

Below are examples of some of the different test results you may encounter when checking HDMI Cables with the Steren HDMI Display Tester.

Please note HDMI cable testing will only function with Non-Active HDMI cables

1. Successful test. All 19 lines display as green which is a full passing result. *(Fig 5)*

(Fig 5)

2. If the HDMI cable is not correctly hooked up to both test inputs, all 19 lines will be shown as RED. *(Fig 6)*

(Fig 6)

3. In some cases an HDMI cable may function and display an image on the TV, but it will be missing drain wires in the construction of the cables. If your test displays as shown in *(Fig 7)* your cable is missing drain wires. It's recommended to use another cable for the installation.

(Fig 7)

4. If an HDMI cable has broken wires internally, the test display may look as shown in *(Fig 8).* It is recommended to use another cable for the installation.

 (Fig 8)

5. If the cable has a cross connect or a short circuit problem, the color of the affected lines will change to white. It is recommended to use another cable for the installation. *(Fig 9)*

 (Fig 9)

Please refer to the HDMI connector pinout for a detailed explanation of the function of each of the HDMI pins. Abbreviations have been added for each pin on the HDMI Display Tester for reference. Please reference the table below.

Pin#	Description	Abbv:	Pin#	Description	Abbv:
Pin 1	TDMS Data2+	D2+	Pin 11	TDMS Data Clock Shield	DCS
Pin 2	TDMS Data2 Shield	D2S	Pin 12	TDMS Data Clock-	DC-
Pin 3	TDMS Data2-	D2-	Pin 13	CEC	CEC
Pin 4	TDMS Data1+	D1+	Pin 14	Utility/HEC/ARC	ARC
Pin 5	TDMS Data1 Shield	D1S	Pin 15	SCL	SCL
Pin 6	TDMS Data1-	D1-	Pin 16	SDA	SDA
Pin 7	TDMS Data0+	D0+	Pin 17	DCC/CEC/ARC/HEC Ground	GND
Pin 8	TDMS Data0 Shield	D0S	Pin 18	+5 V (min. 0.055A)	+5V
Pin 9	TDMS Data0-	D0-	Pin 19	Hot Plug Detect	HOT
Pin 10	TDMS Data Clock+	DC+	-	-	-

Source Display Testing:

1. If the HDMI cable is not correctly connected to the display tester and/or to the source device there will be a pop up box on the tester display showing "No Signal". *(Fig 10)*

(Fig 10)

2. A successful playback test will result in picture and audio playback on the display tester. *(Fig 11)*

(Fig 11)

3. If the display tester does not show the source image or play sound please check that the source device is powered on, set for playback and set for HDMI video/audio output.

Input Resolution Test

1. Follow the Source Display Testing section shown above and while in HDMI Display Mode, press the ③ **Menu** button. The current input resolution will be shown at the bottom of all menu screens

Trouble Shooting:

1. If the display does not show the image you are trying to display or there is no sound, please remove the HDMI cable from the "Source Input" port and re-insert it. This should solve the issue.

Charging the Device:

To charge your device, connect the provided 5VDC power supply and Micro USB charger to a 120VAC power source and to the "Charging" port on the unit. Please only use the provided 5VDC power supply and Micro USB cable.

On a full battery charge, you can expect 3+ hours of video playback.

While the unit is charging, the LED light on the left of the charging port will be RED. *(Fig 13)*

When the unit has completed charging, the LED light on the left of the charging port will change to GREEN.   (Fig 14)

There is also an onscreen battery indicator in the bottom right corner of the screen that will indicate the current charge status.

(Fig 13)

(Fig 14)

Warranty

This product comes with a "Limited 1-Year Warranty" which warrants only to the original purchaser of this product from a Steren-authorized reseller or distributor that this product will be free from defects in material and workmanship under normal use and service. Steren reserves the right, before having any obligation under this limited 1-year warranty, to inspect the damaged Steren product, and all costs of shipping the Steren product to Steren for inspection shall be borne solely by the purchaser. In order to recover under this limited 1-year warranty, purchaser must make claim to Steren within 60 days of occurrence, and must present acceptable proof of original ownership (such as original receipt, warranty card registration, on-line registration, or other documentation Steren deems acceptable) for the product.

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