

AVerMedia

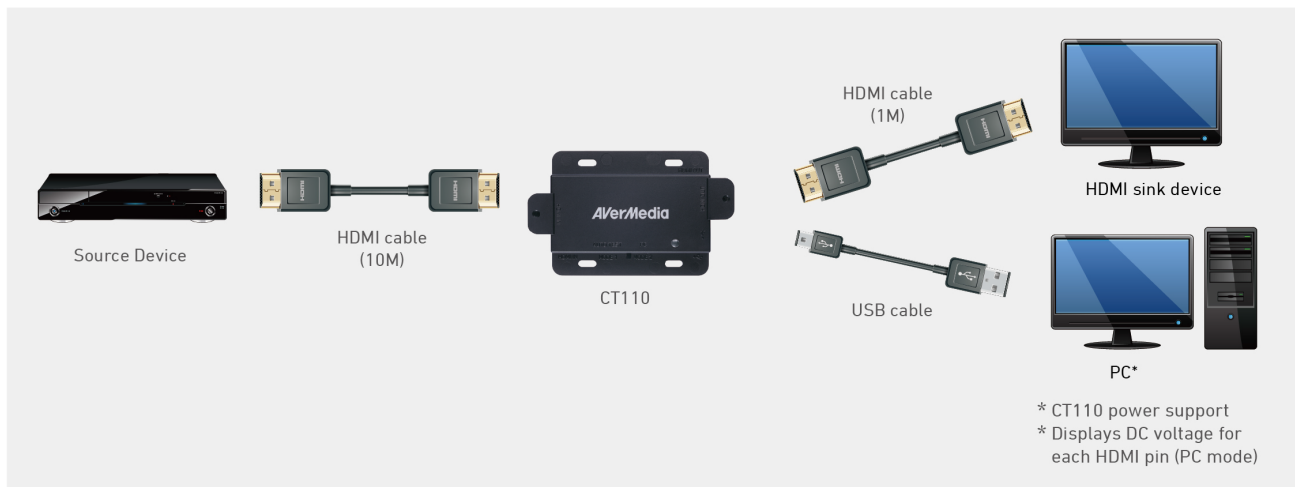
Why CT110 ?

- Fast deployment
- Simple to use
- Reliable HDMI signal detection



CT110 Signal Detector

The extensive use of High-Definition Multimedia Interface (HDMI) across a broad range of hardware from PCs to set-top boxes has given rise to the need for compliance measurement tools. AVerMedia CT110 Signal Detector is specifically designed to detect and validate DC voltage levels for each HDMI signal pin. Once tested, CT110 measures continuity for all HDMI features. The CT110 cross tests between source and sink device to verify the transmission of all digital signals, ensuring source HDMI signal compliance to prescribed limits.



Features

- Detect HDMI DC voltage levels up to 1080p60
- Dual operation modes for auto testing or pc-operation
- Customized sample time
- 4 layers PCB designed to meet EMI/EMC standards
- RoHS compliant

Spec

- Dimensions: 98.7 x 62.2 x 19.1 mm
- Weight: 45.5g
- Operating temperature: 0°C-35°C
- I/O connector: HDMI input, HDMI output, MINI USB

CT110 can check DC level of each HDMI pin



Type A HDMI

- | | | |
|------------------------|--------------------------------|----------------------|
| (1) TMDS Data2+ | (8) TMDS Data0 Shield* | (15) SCL |
| (2) TMDS Data2 Shield* | (9) TMDS Data0- | (16) SDA |
| (3) TMDS Data2- | (10) TMDS Clock+ | (17) DDC/CEC Ground* |
| (4) TMDS Data1+ | (11) TMDS Clock Shield* | (18) +5V Power |
| (5) TMDS Data1 Shield* | (12) TMDS Clock- | (19) Hot Plug Detect |
| (6) TMDS Data1- | (13) CEC | |
| (7) TMDS Data0+ | (14) Reserved(N.C. on device)* | |

*No need to check

Introduction of Operation Modes

The CT110 is an HDMI signal testing toolkit with dual operation modes design for validation of TMDS signal detection and detection of HDMI voltage levels.

Auto Mode: Automatic TMDS signal testing

Standard Testing:

- Abnormal TMDS DC voltage levels
(Base on HDMI 1.4 specification)
- Abnormal 5V DC voltage level

Customized testing:

- Abnormal DDC/HPG/CEC DC voltage levels
- Sample times

Validation Acquired



LED indicator: Blue



HDMI cable



HDMI signal displays on screen

Validation Failure



LED indicator: Green



HDMI cable



No video screen

PC Mode: HDMI DC voltage detection

Check following: HDMI/DDC/HPG/CEC DC voltage levels



HDMI signal measurement



USB cable



Display DC voltage levels on PC

[illegible]

Assured Systems

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