

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

\*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





#### PC Mode: HDMI DC voltage detection







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