

## Introduction:



Fig 1: HDMI Type A receptacle test fixture(HDMI-AR01A)

LiTek's **HDMI-AR01A** is a HDMI Type A receptacle test fixture used to measure HDMI cable with Type A plugs and HDMI source with HDMI Type A receptacle connector and connected with HDMI A type cable assembly. There are 5 pairs with SMA connectors in the Scope or Signal generator sides. The impedance in the test fixture is well designed between 95~105 ohms. The intra pair skew for all 5 pairs are designed less than 3ps.



Fig 2: HDMI-AR01A, plugged with a HDMI Type A plug cable

## Application:

- TV.
- Cable Assembly with A plug.
- HDMI Source devices.

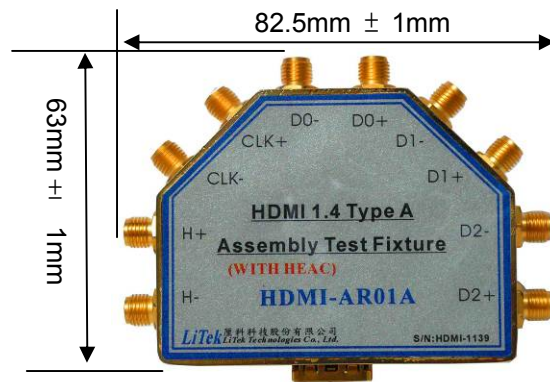


Fig 3: Dimension of HDMI-AR01A

## Physical Characteristic:

RF Connector: SMA X 10  
 HDMI Connector: Type A receptacle  
 Dimension: 82.5 X 63 mm<sup>2</sup>

## Features and Performance:

Trace Impedance: 100 +/- 5 Ω  
 Skew: Less than 3ps.  
 Loss: Less than 3 dB @3.4GHz.

P01	D2+	P02	D2 GND
P03	D2-	P04	D1+
P05	D1 GND	P06	D1-
P07	D0+	P08	D0 GND
P09	D0-	P10	CLK+
P11	CLK GND	P12	CLK-
P13	CEC	P14	REV (HEAC+)
P15	SCL	P16	SDA
P17	DDC GND	P18	+5V
P19	HDP(HEAC-)		

Table1: Type A Pin Assignments

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