

Introduction:



For long or thin HDMI cable application, most of people will design an active solution inside the cable. In general, most assembly will test their passive HDMI cable by using the Signal generator and TDR as scope to check the Eye diagram result. But this solution can be used only for passive cable. Now, LiTek announced a solution for HDMI active cable eye diagram testing by using the same instruments. LiTek's HDMI-DR02AM HDMI Active Rec Test fixture set can be used to test HDMI active plug cable. LiTek's HDMI-DP01A HDMI Active Plug Test Fixture set can be used to test HDMI active receptacle cable.



Fig1: HDMI-DR02AM, HDMI Active Rec Test Fixture

Application:

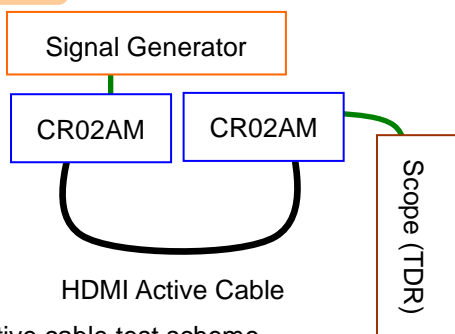


Fig2: HDMI Active cable test scheme



Fig3: HDMI-DP01A, HDMI Active Plug Test Fixture

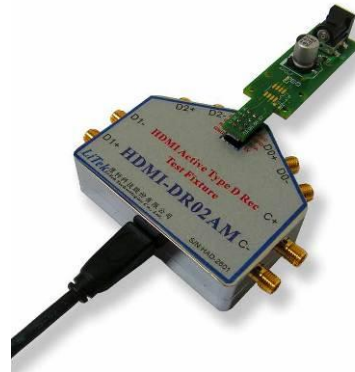


Fig4: HDMI Active Cable plugged into HDMI-DR02AM

Table1: Type C Pin Assignments

P01	HPD	P02	Utility
P03	D2+	P04	D2 GND
P05	D2-	P06	D1+
P07	D1 GND	P08	D1-
P09	D0+	P10	D0 GND
P11	D0-	P12	CLK+
P13	CLK GND	P14	CLK-
P15	CEC	P16	GND
P17	SCL	P18	SDA
P19	+5V		

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