

# ***LiTek***

# ***Technology***

## PLT3045A Programming ON LINE TESTER DATASHEET

***Revision V0.2***

***2010/11/11***

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## Revision History

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Revision	Author	Date	Comment
V0.1	Tom Yeh, Leo Lee	2010/11//05	Initial draft
V0.2	Leo Lee	2010/11/11	First Release

# Introduction



[Figure 1: PLT3045A and Test Fixtures](#)

PLT3045A is a tester/programmer which is designed to test/program HDMI active cable using Synerchip SC2031Q HDMI cable booster chip. The PLT3045A test the HDMI active cable Bit Error Rate (BER) from low bit rate up to 3.4Gbps, find an optimal setting for SC2031Q and program the cable using the optimal setting. The PLT3045A control software implement learning capability to select some best settings for certain type of cable and store the selected settings for later testing the same cable type. There are a lot of setting implemented in Synerchip SC2031Q cable booster to adapt to different cable loss. By the learning capability, the PLT3045A can save a lot of cable test time.

LiTek provides three different kinds of test fixture to test cable with different connector type. Figure 2, 3 and 4 show the test fixture of type A, C and D connector.

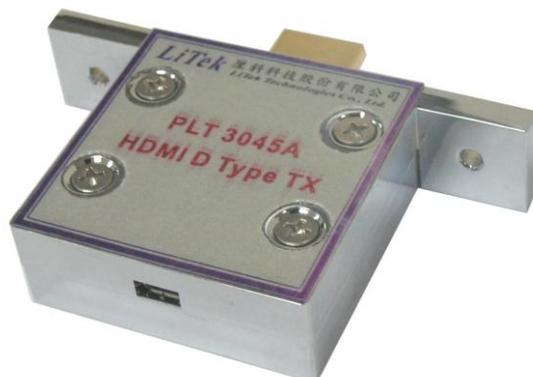


[Figure 2: HDMI Type A Test Fixture \(Two Type A Test Fixtures are included in standard package\)](#)

The standard package of the tester set will include 2 HDMI Type A test fixtures.



[Figure 3: HDMI Type C Test Fixture \(Optional\)](#)



[Figure 4: HDMI Type D Test Fixture \(Optional\)](#)

# Features

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>>Low Cost and robust to test and program HDMI active cable with SC2031Q with short test time.  
>>BER testing from low bit rate up to 3.4Gbps. More details are described in user manual.  
>>With HEAC channel BER testing based on 100 Mbits.(Optional)  
>>Use a external PC to control PLT3045A and export each CUT (Cable Under Test) test result and test information into database.  
>>Learning capability, which can be used to reduce test time significantly.  
>>Low speed wires test.  
>>Test fixture plugin times monitor, which can be used to check the life time of test fixture and issue warning message for test fixture worn out.

## Standard Package:

>>PLT3045A Mainframe X 1  
>>Power Code X 1  
>>USB2.0 A to B cable assembly X 1  
>>HDMI Type A test fixture X 2  
>>PLT3045A software (for Windows only) X 1

## Option for customer to select:

>>HDMI Type C test fixture  
>>HDMI Type D test fixture  
>>HEAC channel test module

## What the customers should prepare:

>>PC with Microsoft Windows XP (Service Pack 3 should be updated) or above.  
>>Monitor, Keyboard and mouse.

## Warranty and Support:

>>PLT3045A mainframe would be 1 year warranty in normal use condition.

>>HDMI Type A, C and D test fixtures are not in warranty case. Replacement of these test fixtures is easy and low cost. Customers can do that by themselves. For more information, please check with LiTek.  
>>1 year free software update. But the customer special request is not included.  
>>Chinese and English user manuals are available via email or downloadable from LiTek's web site.

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