

光源频闪测试系统

TLM Test System

基于远方LFA-3000和频闪专用测试电源的光源频闪系统，可模拟实现各种电压波动条件下的频闪测量分析，且系统内置标准电压波形数据库，一键操作即可完成IEC 61547-1的测试分析，方便快捷，完全满足照明产品设计、质检和应用等各阶段的频闪测试分析需求。

The TLM (Temporal Light Modulation) Test System based on EVERFINE LFA-3000 and TLM Test special power supply can realize the measurement and analysis of TLM under various voltage fluctuation conditions, and the system has a built-in standard voltage waveform database, which can complete IEC 61547-1 measurement by one-key operation, which is convenient and fast, and fully meets the requirements of TLM test and analysis in various stages of lighting product development, production, QC and application.

模拟分析不同电压波动条件下的频闪特性

TLM Simulation and Analysis under Various Voltage Fluctuation Conditions

一键完成IEC 61547-1频闪测试分析报告

One-key Operation to Achieve IEC 61547-1 Measurement and Analysis Report



- 内置标准电压波形数据库，也可自定义电压波形，完全满足IEC 61547-1对照明产品的输入电压波形的测试要求。
The built-in standard voltage waveform database and customized voltage waveforms fully meet the test requirements of IEC 61547-1.
- 可导入任意电压波形的CSV数据文件，实现模拟分析各种照明现场条件下的频闪效果。
CSV data files of arbitrary waveform can be imported to simulate and analysis the TLM under various lighting conditions.
- 采样速率最高达100kHz，满足现有各种国际及国内标准采样需求。
The sampling rate up to 100kHz can meet the requirements of various standards.
- 线性动态范围宽到8个数量级，可捕捉快速变化光源的精细波形，适用于调光产品的测量。
The linear dynamic range of 8 orders of magnitude can capture the fine waveform of rapidly changing light sources, which is suitable for the measurement and analysis of various dimming products.



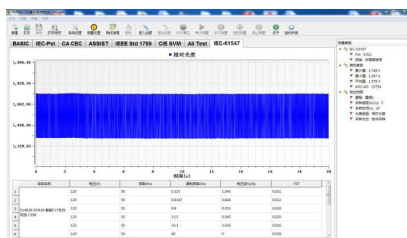
More  www.everfine.cn

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TLM Test System

可测量参数 Measurement items

- 频闪测试严格按照最新IEC 61547-1标准进行，一键操作即可获得多种不同波动条件下的频闪分析结果
Strictly follow the latest IEC 61547-1, one-key operation can get TLM analysis results under different fluctuation conditions
- 基准频率、闪烁百分比 (PF) / 调制深度 (MD)、闪烁指数 (FI)
Frequency, Percent Flicker (PF) / Modulation Depth (MD), Flicker Index (FI)
- 光闪烁的时域和频域分析图
Analysis chart of TLM in time and frequency domain
- NM归一化调制、短期闪烁指数Pst、可感知调制量Mp、频闪效应量化参数SVM
Normalized Modulation, Pst, Perceptual Modulation, SVM
- 对频闪危害进行分级
Classification of TLM
- 频闪测试完全符合IEEE、IEC、CEC、ASSIST、CIE、Energy Star和ERP等法规要求。
Fully comply with the TLM measurement requirements of standards of IEEE, IEC, CEC, ASSIST, CIE, Energy Star and ERP.

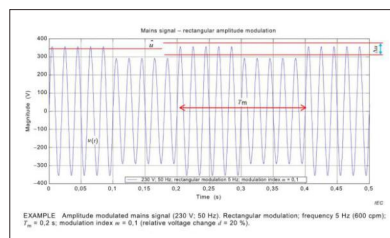


LFASuite Test Report

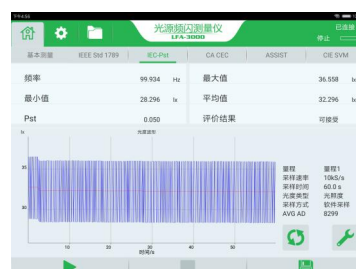
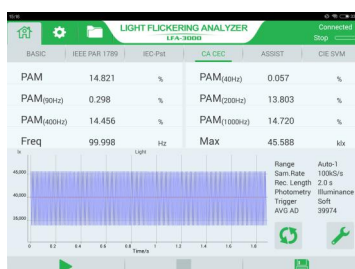
测量条件
光源类型: 无源灯(LA) 测量量程: 量程3 采样方式: 软件采样
采样速度: 10 kS/s 采样时间: 60.00 s

测量结果

样品名称	电压(V)	频率(Hz)	调制深度(MD)	电压变化(%)	PST
1#	120	60	0.325	1.04	2.945
	120	60	0.9167	0.844	5.092
	120	60	8.8	0.383	7.561
	120	60	13.5	0.548	6.568
	120	60	33.3	0	0.638
120	60	60	4.843	14.909	



Test interface & report of IEC 61547-1



Test interface examples