

LBB-TRUES-Series LED Tester Product Manual

Overview:

- > Designed for industrial field automatic measurement of LED
- >The data has been calibrated at the factory
- >Luminance and lumen probes can be selected
- >16bit high resolution, high accuracy and good repeatability
- > brightness range is up to 1 million Lux, resolution is up to 0.01lux
- >16 channel and H/L/M gain Selectable
- > Communication interface rich (USB / RS485 / LAN)
- > Color coordinates according to the standard CIE1931, CIE1976
- > Output data is rich in format (Lux, XYZ, xy, uv, CCT, HSL, freq, DomiWave, RGB, HSL)
- > Multi-channel simultaneous capture LED flashing frequency (<50Hz)
- > Reserved DIO, can be triggered by DI (optoc) test, DO (NPN) output test results
- > Provide development SDK, can be embedded ICT, FCT, ATE machine
- > Wide voltage work, industrial design, high stability

Application:

>LED lumens and chromaticity measurement occasions

>RGB-LED atmosphere lamp measurement and calibration and other occasions

>LED color brightness requires higher measurement

>Product shell logo lamp test

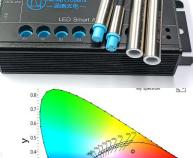
- > Weak light environment test
- > Embedded ICT / FCT / ATE machine

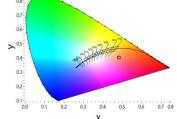


List of electrical optics specifications:

Туре	ltem	Parameter	Remark
electrical	Input voltage	USB power supply or external	T<70℃, H<90%
specification		DC9-26V power supply	
	Working current	USB-300MA,DC24V-100MA	Built-in fuse, one-way diode
	Communication	USB (USB to RS232) and RS485/LAN	
	Interface		
	communication	8,1,None,buad(2400-921600)	ID, Buad can be configured, the same as the two
	protocol		interface communication protocols
	data format	Lux,CCT,xy,u'v',dowave,Freq,RGB,HS	CIE1931,CIE1976









		L,etc.				
	Module channel	The host supports 16CHL	Arbitrary number of probes			
	Cascade	RS485 interface supports 32				
	expansion	modules in parallel				
	Cascade mode	RS485 master / slave mode /	Routing mode: a USB cable to access all slaves			
		USB-RS485 routing mode				
	DIO interface	Optional DIO interface can be	Configure the upper and lower limits, IO			
		connected with PLC	automatically output the results, offline running			
	special function	digitron read and LED flashing frequency (f <50Hz)	Replace the CCD to read the digital tube data			
Software	Drogramming		Dravida Labviau comple course code			
	Programming	C,C++,C#,VB,labview etc.	Provide Labview sample source code			
programming	language					
	SDK	Provide RS232 command table,	MODBUS-ASCII protocol			
	support system	WINDOWS,LINUX,Wince etc.	Serial port instructions support any hardware			
			and software platform			
	Debugging	Equipped with full-featured	Can be configured upper and lower limits, DI			
	software	measurement and analysis software	trigger, DO output, offline running			
Data	Lux	Accuracy: 4% @50001x D65 Led	Repeated : 0.1%, linearity: 2%			
characteristics	LM	Accuracy: 6% @100LM D65 Led	Repeated : 0.1%, linearity: 2%			
	xy(CIE1931)	Accuracy: 0.008 @D55 led	Repeated measurement: 0.0002			
	uv(CIE1976)	Accuracy: 0.008 @D55 led	Repeated measurement: 0.0002			
	ССТ	Accuracy: 3% @D55 led	Repeated measurement: 10K			
	DomiWave	Accuracy: +-3nm @470nm Led	Repeated measurement: 0.3nm			
		Accuracy: +-3nm @523nm Led	Digital resolution : 0.1nm			
		Accuracy: +-3nm @630nm Led				
	RGB(HSL)	no international reference standard	Repeated measurement: 1%+1			
	The above accuracy are factory parameters, support secondary calibration;					
Optical	Wavelength	400-720nm	Visible light measurement			
characteristics	Illumination	0.01lx-900k lx	Multiple ranges are optional			
	Range					
	Lumen	0.001lm-3000 lm	Multiple ranges are optional			
	Range					
	Optical	Lux,Im,CCT,xy, u'v',dowave,RGB,	CIE1931,CIE1960,,CIE1976			
	parameters					
	Special	Freq, cd/m^2, cd				
	parameters	,				
	boundary	128 * 66 * 30mm	Positioning hole spacing 35mm (4mm through			

HanOpticSens:Industrial field LED online measurement solution providerwww.hgckled.comwww.HanOpticSens.com



Shell size	dimension			hole)			
(Patent shell)	Connect Line	4 core cable		Quick plug terminal			
	Material	Black POM+Alumi	num alloy	Led BLACK BOX (LBB)			
	Expansion	DIO		The extended DIO module can interact with			
	interface			PLC			
	interface PLC 1 2 3 4 5 6 18 19 18 5 5 1 18 18 10 5 5 1 19 10 10 10 5 5 10 10 10 10 10 5 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10						

