

LBB-XYZ-Series Product Fast Manual

Overview:

- > Designed for industrial field automatic measurement of LED
- > brightness range is up to 1 million Lux,resolution is up to 0.1lux
- >4/8/16 /20/24/32/40 channel and H/L/M gain Selectable
- >16bit high resolution, high accuracy and good repeatability
- > Communication interface rich (USB / RS485 / LAN)
- > Color coordinates according to the standard CIE1931, CIE1976
- > Output data is rich in format (RGB, HSL,Lux, XYZ, xy, uv, CCT, HSL,freq, DomiWave)
- > Multi-channel simultaneous capture LED flashing frequency (<50Hz)
- > Automatic identification of digitron, instead of CCD, reduce system cost
- > Reserved DIO, can be triggered by DI (optoc) test, DO (NPN) output test results
- > Provide secondary development SDK, can be embedded ICT, FCT, ATE machine
- > Compatible with 1 / 1.3 / 2.2 / 3mm four kinds of fiber, easy plug
- > Wide voltage work, industrial design, high stability

Application:

- > LED color and brightness measurement on various PCBA
- > LED color and brightness and color temperature require a higher measurement
- > ambient light color temperature calibration measurement
- > Car Flow LED test
- > Measure the color and brightness of the LCD backlight and LCD front panel
- > Self checking of the LED on the server /PC/NB motherboard
- > Car front and rear lights, car dashboard LED, car atmosphere lights
- > Embedded ICT / FCT / ATE machine, combined with the PC to achieve LED automatic measurement
- > LED scintillation frequency measurement
- > Automatically read the data displayed by digitron, instead of CCD

Application examples:













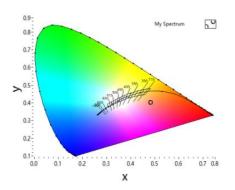












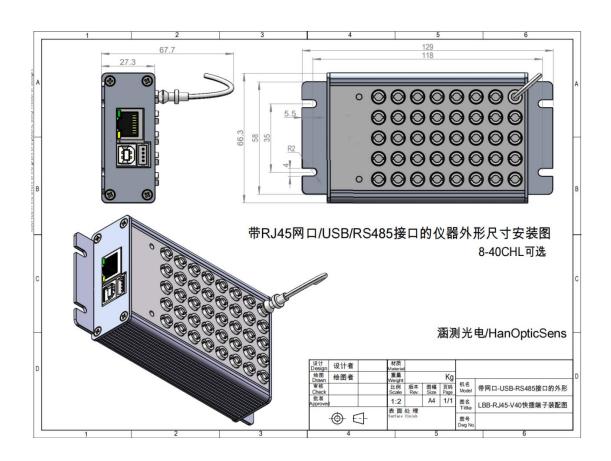


List of electrical optics specifications:

Туре	Item	Parameter	Remark				
electrical	Input voltage	USB power supply or external	T<60℃, 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(tcp/ip)				
	Interface						
	communication	8,1,None,buad(2400-921600)	ID, Buad can be configured, the same as the two				
	protocol		interface communication protocols				
	data format	RGB,HSL,Lux,CCT,xy,u'v',dowave,Flic	CIE1931,CIE1976				
		k etc.					
	Module channel	4~40chl can be chosen	The size of the shell does not change				
	Cascade	RS485 interface supports 32					
	expansion	modules in parallel					
	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	Replace the CCD to read the digital tube data				
		frequency (f <50Hz)					
Software	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				
Optical data	Lux	linear: 6% @D55 led	Repeated measurement: 0.5%@10k lux				
characteristics	xy(CIE1931)	Accuracy: 0.015 @D55 led	Repeated measurement: 0.001 @10k lux				
	uv(CIE1976)	Accuracy: 0.015 @D55 led	Repeated measurement: 0.001 @10k lux				
	ССТ	Accuracy: 7% @D55 led	Repeated measurement: 25K				
	DomiWave	Accuracy: +-4nm @468nm Led	Repeated measurement: 0.5nm				
		Accuracy: +-5nm @525nm Led	Digital resolution: 0.1nm				
		Accuracy: +-6nm @634nm Led					
	RGB(HSL)	no international reference standard	Repeated measurement: 1%+1				
	In the field of optical fiber measurement, there are many factors affecting the Accuracy						
	Wavelength	400-720nm	Visible light measurement				
	range						



Optical	Brightness range	Up to 1 million Lux,		
hardware		The resolution is up to 0.1lux		
characteristi	Filter	XYZ series optical filters		
cs	Fiber	Compatible with an outer diameter	1.3 / 1.0mm fiber with tail plug,	
	specification	of 2.2mm / 1.3mm / 1.0mm fiber		
	Special	LM	Need a fiber optic lumen probe,	
	parameters		And it requires a secondary calibration	
	boundary	128 * 66 * 30mm	Positioning hole spacing 35mm (4mm through	
Shell size	dimension		hole)	
(Patent shell)	Fiber fixation	Optical fiber clip	Fast plug interface	
	Material	Black POM+Aluminum alloy	Led BLACK BOX (LBB)	
	Expansion	DIO	The extended DIO module can interact with	
	interface		PLC	





HanOpticSens 采光头-选型合集-v22.06

型号	外径	内径	长度	光纤	光纤折弯	光纤是	功能	备注
1.53	D	d	L	外径	最小高度	否支持		(单位 mm)
				F	н	插拔		
光纤	钢管外	径D误差	+-0.03mm	,钢管长	度 L 误差+-1mr	n:	适合测量产品外壳弱光	外径 D 相同产品, 光纤直径越粗, 耦合效
采光头	如果要紧配,建议打孔直径(D+0.05mm),						灯,尤其是带字符图档灯,	率越高,越适合测量弱光;
(实心)	如果侧	面用支付	螺丝,建	议打孔直	径(D+0.1mm):		或 PCBA 上的多芯灯珠,	在空间允许的情况且灯光较强亮度下,尽
	不支持	插拔光纤	长度默认	1米, 其	他长度需提前汽	可通;	内置光纤耦合透镜,增大	可能选用粗一些的采光头, 改善效果更佳
					10	197	采光面积, 改善采光效果	
FH2525-2.2	2.5	2.2	25	2.2	30	否		
FH3025-1.3	3.0	2.5	25	1.3	40	否		
FH3025-2.2	3.0	2.5	25	2.2	50	否	D	
FH3525-1.0	3.5	3.0	25	1.0	30	是	***	千采光头(实心)-FH系列
FH3525-1.3	3.5	3.0	25	1.3	40	是	d' •	
FH3525-2.2	3.5	3.0	25	2.2	50	否	٥	
FH4525-1.0	4.5	4.0	25	1.0	30	是		
FH4525-1.3	4.5	4.0	25	1.3	40	是		-
FH4525-2.2	4.5	4.0	25	2.2	50	否		н
FH4536-1.0	4.5	4.0	36	1.0	30	是		-
FH4536-1.3	4.5	4.0	36	1.3	40	是		
FH4536-2.2	4.5	4.0	36	2.2	50	否	支持 45 度斜边采光头	4.50mm
FH5536-1.0	5.5	5.0	36	1.0	30	是		\rightarrow \leftarrow
FH5536-1.3	5.5	5.0	36	1.3	40	是		
FH5536-2.2	5.5	5.0	36	2.2	50	否		45度采坐3
FH6536-1.0	6.5	6.0	36	1.0	30	是		示意图
FH6536-1.3	6.5	6.0	36	1.3	40	是		
FH6536-2.2	6.5	6.0	36	2.2	50	否		. ↑
FH7536-1.0	7.5	7.0	36	1.0	30	是		M
FH7536-1.3	7.5	7.0	36	1.3	40	是		LEDAR
FH7536-2.2	7.5	7.0	36	2.2	50	否		4
FH8036-1.0	8.0	7.0	36	1.0	30	是		←'>
FH8036-1.3	8.0	7.0	36	1.3	40	是		
FH8036-2.2	8.0	7.0	36	2.2	50	否		
FH8542-1.0	8.5	8.0	42	1.0	30	是	9.0mm 外径钢管,	
(FH9042-1.0)	(9.0)						只是钢管壁厚增加,	
FH8542-1.3	8.5	8.0	42	1.3	30	是	架构加强了,	
(FH9042-1.0)	(9.0)						其他光学参数不变	
FH8542-2.2	8.5	8.0	42	2.2	50	否		
(FH9042-2.2)	(9.0)							



型号	外径 D	内径 d	长度 L	光纤 外径	光纤折 弯量小	光纤是 否支持	功能	各注 (单位: mm)
				F	高度H	播拔		
光纤流明采	钢管外径 D 误差+-0.03mm,钢管长度 L 误差+-1mm;			适合测量 PCBA 上高亮 LED, 因为是	因为是空心开口采光头, 因此			
光头(空心)	如果要侧面支付螺丝固定, 打孔直径(D+0.1mm),						高温灯珠,尤其是 RGB 多芯	安装时,尽量口朝下安装,避
	由于空心探头钢管壁厚只有 0.2mm, 尽量朝上半部分固定,						灯,汽车照明 LED,适合测量	免灰层进入内腔,如果开口
	最好采用	月两块半圆	加紧,可	防止破坏	深头外观:	LED 的流明值,可弥补定位精	须朝上,则可以做个透明亚克	
	不支持指	盾拔光纤长	度默认1	米, 其他	长度需提前治	度不足产生的波动,提高稳	力塞子塞住洞口,防止灰层边	
							定性;	λ
LM5536-1.0	5.5	4.0	36	1.0	30	是		
LM5536-1.3	5.5	4.0	36	1.3	40	是		
LM5536-2.2	5.5	4.0	36	2.2	50	否		_
LM6536-1.0	6.5	5.0	36	1.0	30	是		
LM6536-1.3	6.5	5.0	36	1.3	40	是	D	
LM6536-2.2	6.5	5.0	36	2.2	50	否		
LM7536-1.0	7.5	6.0	36	1.0	30	是	d	头(空心)-LM系列
LM7536-1.3	7.5	6.0	36	1.3	40	是		
LM7536-2.2	7.5	6.0	36	2.2	50	否		
LM8036-1.0	8.0	6.0	36	1.0	30	是	0.5 L	_ F \
LM8036-1.3	8.0	6.0	36	1.3	40	是	1	1
LM8036-2.2	8.0	6.0	36	2.2	50	否	1	Н
LM8542-1.0	8.5	6.6	42	1.0	30	是	1	
(LM9042-1.0)	(9.0)							
LM8542-1.3	8.5	6.6	42	1.3	40	是	1	
(LM9042-1.3)	(9.0)							
LM8542-2. 2	8.5	6.6	42	2.2	50	否		
(LM9042-2.2)	(9.0)						0	
LM10050-1.0	10.0	8.0	50	1.0	30	是		
LM10050-1.3	10.0	8.0	50	1.3	40	是		
LM10050-1.3	10.0	8.0	50	2.2	50	否		
LM4536-1.0	4.5	3.0	36	1.0	30	是	开口只有 3mm,只适合测量小封装 LED 的流明值, 若非空间放不下,不建议用该款采光头	
LM4536-1.3	4.5	3.0	36	1.3	40	是		
LM4536-2.2	4.5	3.0	36	2.2	50	否	1	