

Beijing Hanyu Optoelectronics Technology Co., Ltd.

## 北京翰宇光电科技有限公司

### SPECIFICATIO

(产品规格书)

PART NO : ULLH-P8

(产品型号)

SPEC NO : LH/LEDGY-D2/1

(规格书编号)

DESCRIPTION : UVLED 点光源

(产品描述)

DATE : 2023/03/19

(日期)

### R&D DEPARTMENT

(技术研发部)

APPROVED (核准)	CHECKED (审核)	PREPARED (制定)
LHUVLED	LHUVLED	LHUVLED

咨询热线: 1300 125 9351

网 址: [www.uvringn.com](http://www.uvringn.com)

邮 箱: [hanyuuv@gmail.com](mailto:hanyuuv@gmail.com)

地 址: 北京市大兴区兴正大街46号

## Description (描述)

Product model(产品型号): ULLH-P8

Disposition (配置): Controller(控制器) Irradiation head(照射头)  
lens (透镜) Power adapter (电源适配器)

## Characteristic (特性)

Touch(触控) Long service life (使用寿命长) ---20000-30000H

No warm-up required(无需预热) Small size (体积小)

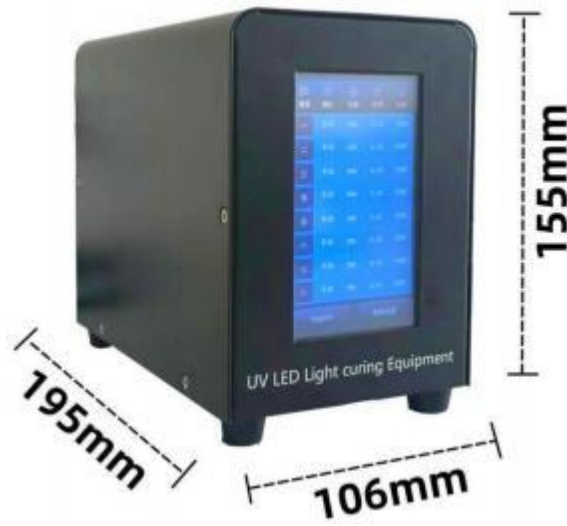
Low maintenance costs(维护成本低) Alarm device(报警装置)



## Apply (应用)

Industrial adhesive curing(工业粘胶剂固化)、Wafer degumming (晶圆解胶)、Printed packaging (印刷包装)、Optical fiber communication(光纤通信)、Medical optoelectronics(医疗光电)、Electronic assembly(电子装配)、Painting drying(涂装油漆干燥)、Inkjet printing(喷码喷绘)、Speaker small speaker(扬声器小喇叭)、Camera module(摄像头模组)、LCD screen fitting(液晶屏贴合)...

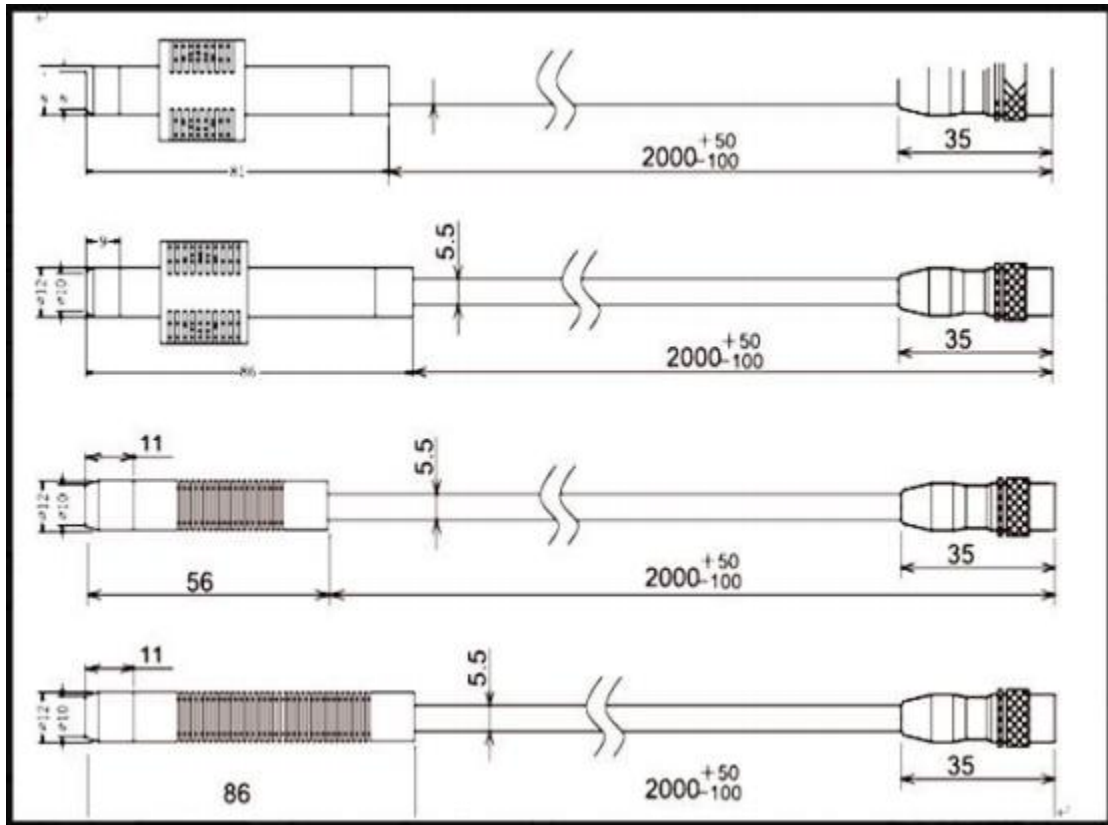
Dimensional drawing (尺寸图)



Front (正面)



The back (背面)



**Product parameters ( 产品参数 )**

<b>Name(名称)</b>	<b>Specifications(规格)</b>	<b>Unit(单位)</b>	<b>Parameter(参数)</b>	
<b>Controller</b> <b>(控制器)</b> <b>ULLH-P80</b>	Body size(机身尺寸)	mm	195*106*155	
	Controller net weight (控制器净重)	kg	3.5	
	Cooling method(冷却方式)	Free cooling (自然冷却)		
	Power settings(功率设置)	0%-100% adjustable (0%-100%可调)		
	Irradiation mode (照射模式)	Manual mode (手动模式)	Always on after startup (启动后常亮)	
		Automatic mode (自动模式)	Set the time countdown after irradiation 0.1-999.9s (设定照射后时间倒计 0.1-999.9s)	
		Ladder mode (阶梯模式)	Realize stepped irradiation (实现阶梯照射 1-16 步数)	
		Cyclic mode (循环模式)	1-99 cycles (1-99 次循环次数)	
	Control model(控制模式)	RS232	RS232 serial port for LED light switch (RS232 串口实现 LED 灯开 关)	
		RS485	RS485serial port for data reading and writing and LED light switch (RS485 串口实现数据读写和 LED 灯开关)	
		I/O interface (I/O 接口)	LED light switch control (LED 灯开关控制)	
	LED light switch control(选配通道)	CH1/CH2/CH3/CH4/CH5/CH6/CH7/CH8		
	Optional voltage(选配电压)	100-240VAC.50/60HZ/DC7.5V-6.0A		
Ambient temperature/humidity (环境温度/湿度)	+5±40℃ 20-85%			

	<b>Storage temperature/humidity</b> (储存温度/湿度)	<b>-10±60°C 20-85%</b>
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### Irradiation head parameters (照射头参数)



点光源照射头  
正面出光  
风扇散热  
型号: ULLH\*F



点光源照射头  
正面出光  
自然散热  
型号: ULLH\*N



点光源照射头  
侧面出光 (90°)  
自然/风扇散热  
型号: ULLH\*C

Name(名称)	Specifications(规格)	Unit(单位)	Parameter(参数)
UVLED Irradiate the head (UVLED 照射头)  2N/86/2	Wavelength range (波长范围)	365±5nm, 385±5nm, 395±5nm, 405±5nm...	
	Irradiation head material (照射头材质)	Copper / aluminum alloy (铜材 / 铝合金)	
	Heat dissipation method (散热方式)	Free cooling / fan cooler(自然冷却 / 风扇冷机)	
	Dimensions (外形结构尺寸)	Refer to the dimension drawing (参照尺寸图)	
	Glow size(发光大小)	mm	2、3、4、5、6、7、8、10、 12、15、20
	Recommended distance range (建议距离范围)	mm	5
	Peak irradiation intensity (峰值照射强度)	mw/ cm <sup>2</sup>	680-13000
	Electrical power of a single lamp head (单个灯头电功率)	W	5
Power cord (电源线)	Power cable (电源电缆)	m	1.5/2
Connecting cables (连接线)	Flexible cables (柔性电缆)	m	2/3/5



Model (型号)	Band (波段) (nm)	Irradiation head length (照射头长度) (mm)	Cable length (线缆长度)(m)	Cooling method (冷却方式)
ULLH2F	365/385/395/405...	86mm 115mm	2m	Air cooled (风冷)
ULLH3F	365/385/395/405...	86mm 115mm	3m	Air cooled (风冷)
ULLH5F	365/385/395/405...	86mm 115mm	5m	Air cooled (风冷)
ULLH2N	365/385/395/405...	60mm 88mm 118mm	2m	Heat dissipation naturally(自然散热)
ULLH3N	365/385/395/405...	60mm 88mm 118mm	3m	Heat dissipation naturally(自然散热)
ULLH5N	365/385/395/405...	60mm 88mm 118mm	5m	Heat dissipation naturally(自然散热)
ULLH2C	365/385/395/405...	78mm 108mm	2m	Heat dissipation naturally(自然散热)
ULLH3C	365/385/395/405...	78mm 108mm	3m	Heat dissipation naturally(自然散热)
ULLH5C	365/385/395/405...	78mm 108mm	5m	Heat dissipation naturally(自然散热)

## Light pipe parameters (光导管参数)

### External I/O pedal connection (外部 I/O 脚踏连接)

引脚号	信号名称
CH1/ GND	通道一脚踏输入、I/O 输入、PLC 控制信号
CH2/ GND	通道二脚踏输入、I/O 输入、PLC 控制信号
CH3/ GND	通道三脚踏输入、I/O 输入、PLC 控制信号
CH4/ GND	通道四脚踏输入、I/O 输入、PLC 控制信号
CH5/ GND	通道五脚踏输入、I/O 输入、PLC 控制信号
CH6/ GND	通道六脚踏输入、I/O 输入、PLC 控制信号
CH7/ GND	通道七脚踏输入、I/O 输入、PLC 控制信号
CH8/ GND	通道八脚踏输入、I/O 输入、PLC 控制信号

Note: All signal terminals are strictly forbidden to be electrified, only switching signals are supported. (备注: 所有信号接线端子严禁带电, 仅支持开关量信号。)

## Optical lens parameters (光学透镜参数)



facula (光斑) /mm	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	Ø10	Ø12	Ø15	Ø20

<b>height (高度) /mm</b>	12.9	12.9	12.9	10.3	9.7	9.6	9.6	9.6	9.6	9.6	9.6
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Model (型号)	Spot diameter (光斑直径) (mm)	Irradiation distance (照射距离) (mm)	Irradiation power (照射功率) (mw/cm <sup>2</sup> )
ULOL2	φ2	8mm	9000mw/cm <sup>2</sup>
ULOL3	φ3	9mm	8000mw/cm <sup>2</sup>
ULOL4	φ4	8mm	5500mw/cm <sup>2</sup>
ULOL5	φ5	10mm	5200mw/cm <sup>2</sup>
ULOL6	φ6	15mm	4000mw/cm <sup>2</sup>
ULOL7	φ7	20mm	2600mw/cm <sup>2</sup>
ULOL8	φ8	23mm	2200mw/cm <sup>2</sup>
ULOL10	φ 10	25mm	1600mw/cm <sup>2</sup>
ULOL12	φ 12	32mm	1200mw/cm <sup>2</sup>
ULOL15	Φ 15	40mm	800mw/cm <sup>2</sup>
ULOL20	Φ20	58mm	500mw/cm <sup>2</sup>
ULOL3*15	Φ3*15	11mm	800mw/cm <sup>2</sup>
ULOL5*15	Φ5*15	16mm	700mw/cm <sup>2</sup>



## Matters needing attention (注 意 事 项)

1. Do not unplug the power plug with wet hands to avoid the risk of electric shock; (请勿用湿手拔插电源插头，避免触电危险；)

2. Do not use this equipment in an environment where the temperature and humidity exceed the technical requirements; (请勿在温湿度超出技术要求的环境中使用本设备；)

3. Do not use this equipment in flammable and explosive gas risk areas; (请勿在易燃易爆气体风险区域使用本设备；)

4, Do not use with equipment with high load and machinery with strong electromagnetic induction, try to avoid the same power supply, and install ground wire; (请勿与负载较高的设备及电磁感应性较强的机械一起使用，尽量避免同一路电源，并安装地线；)

5, Do not disassemble and modify the equipment without permission to avoid unnecessary losses caused by irreversible damage of the equipment; (请勿私自拆卸改装设备，避免设备不可逆损毁造成不必要的损失；)

6, Do not install other devices in the heat dissipation channel to ensure smooth heat dissipation; (请勿在散热通道安装其他装置，确保散热通畅；)

7, Do not directly irradiate the human body with the irradiation head, do not look directly with the eyes, and wear protective glasses when using; (请勿用照射头直接照射人体，不要用眼睛直视，使用时请佩戴保护眼镜；)

8, Do not directly touch the irradiation head in use (just after use) with your hands or body, the temperature is high to avoid injury; And wait for the heat dissipation device to stop working, and then turn off the power. (请勿用手或身体直接碰触使用中（刚使用结束）的照射头，温度较高以免受伤；并等散热装置停止工作后，再关闭电源。)