



羿润科技
E-RUN TECHNOLOGY

<http://yirunauto.com>

UV Light Source ERT Series
UV LED Spot light



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CE RoHS

ISO 9001:2008



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UV Light Source ERT Series
UV LED Spot light

Four channel spot light controller



Stable irradiation: The LED light head contains temperature transmitter inside. In the E-RUN special feedback system, stable irradiation output is realized. Consequently four light head: the irradiation power and time of each LED light head could be set respectively; single or linkage UV irradiation is optional.

Machine dimension: W80mm H125mm L146mm

Outside control: foot pedal switch, controller panel button, PC RS232 connector, each can work independently

Step mode: each LED light head could be set in 16 step irradiation mode.

Pulse mode: take advantage of E-RUN unique control system, pulse irradiation mode could realize.

Life recording: this machine could record each LED light head' s working time.

Cable of the LED light head: Japan Sun Corporation made robot flexing cable.

Power: with matched adaptor (100~240V)

Consumption power: lower than 59 VA; low power consumption drive

Eight channel spot light controller



Stable irradiation: The LED light head contains temperature transmitter inside. In the E-RUN special feedback system, stable irradiation output is realized. Consequently eight light head: the irradiation power and time of each LED light head could be set respectively; single or linkage UV irradiation is optional.

Machine dimension: W140mm H113mm L160mm

Outside control: foot pedal switch, controller panel button, PC RS232 connector, each can work independently

Step mode: each LED light head could be set in 7 step irradiation mode.

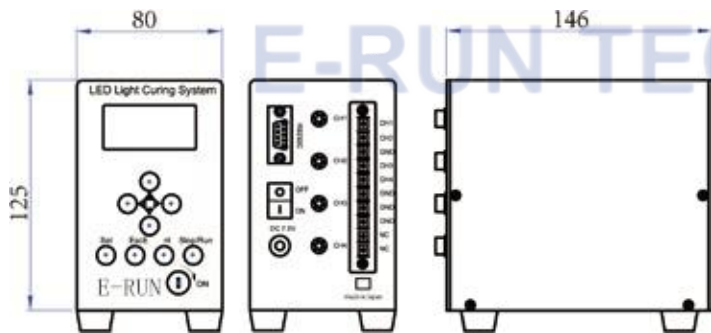
Pulse mode: take advantage of E-RUN unique control system, pulse irradiation mode could realize.

Life recording: this machine could record each LED light head' s working time.

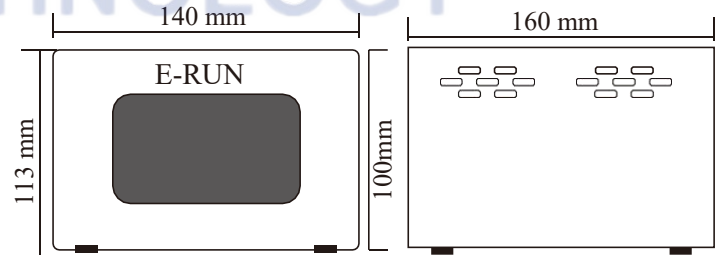
Cable of the LED light head: Japan Sun Corporation made robot flexing cable.

Power: with matched adaptor (100~240V)

Consumption power: lower than 80 VA; low power consumption drive



Four channel spot light controller



Eight channel spot light controller

Application fields

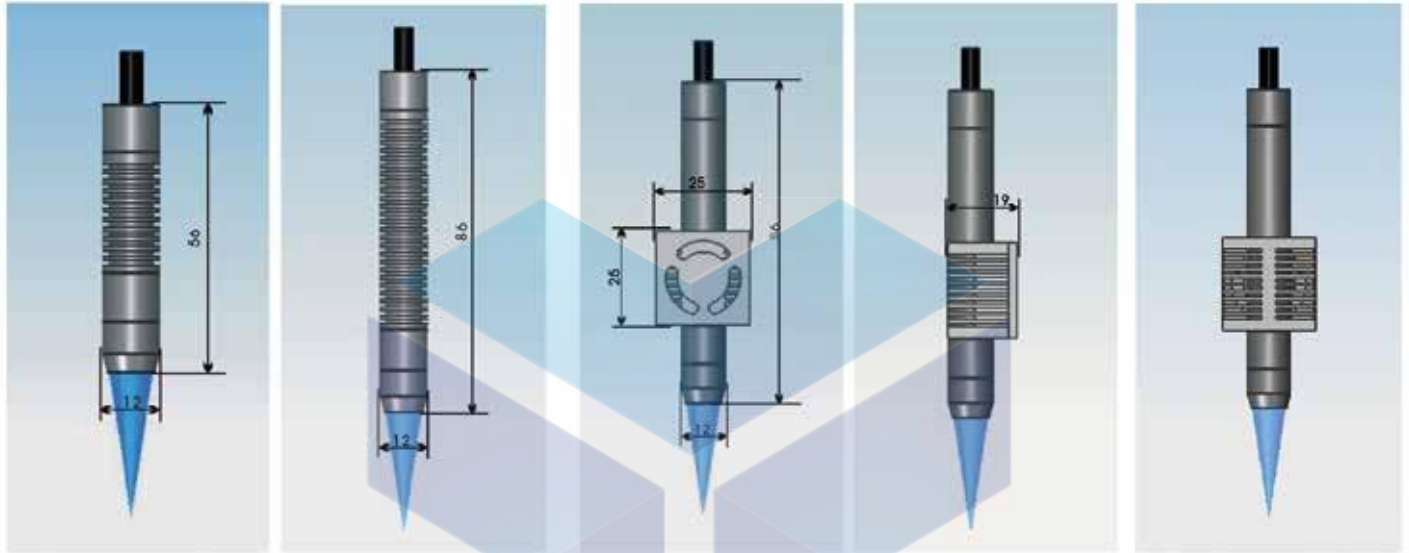
Microelectronics industry; PCB industry; medical apparatus and instruments; optics and photoelectricity industry; optical communication industry; scientific research and study institute; beauty and beauty nail industry; fluorescence detecting industry; visual background light detecting light; furniture trade; printing industry and so on.



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ERH-56

ERH-86

ERH-86F

Light head model	Light head model	Light head model	Light head model	Texture of material
ERH-56	365/385/395/405	2/3/4/5m	5mm	Copper
ERH-86	365/385/395/405	2/3/4/5m	5mm	Copper
ERH-86F	365/385/395/405	2/3/4/5m	5mm	Aluminium alloy

Lenses

A wide variety of irradiation options will meets various application requirements for bonding/fixing.

Standard lens

(Circular irradiation)

- ERUL003 \varnothing 3
- ERUL004 \varnothing 4
- ERUL006 \varnothing 6
- ERUL008 \varnothing 8
- ERUL010 \varnothing 10
- ERUL012 \varnothing 12
- ERUL015 \varnothing 15



Side view lens

(Circular irradiation Angled at 90°)

- ERUL004S \varnothing 4
- ERUL006S \varnothing 6
- ERUL008S \varnothing 8
- ERUL010S \varnothing 10
- ERUL012S \varnothing 12
- ERUL015S \varnothing 15



Cylindrical lens

(Elliptical irradiation)

- ERULL15 3*15
- ERULL20 5*20



Rod lens

(Small diameter circular irradiation)

- ERULR04 \varnothing 4





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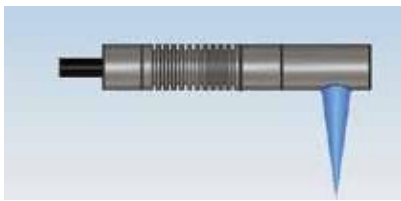
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UV Light Source ERT Series
UV LED Spot light

Specification of the focusing lens used for Spot light LED head



Standard lens model	Optional light spot diameter	Recommended irradiation distance	Spot characteristics
ERUL003	3	9	Ordinary round light spot
ERUL004	4	11	
ERUL006	6	17	
ERUL008	8	25	
ERUL010	10	28	
ERUL012	12	35	
ERUL015	15	38	
ERUL020	20	70	
ERUL030	30	95	



Standard lens model	Optional light spot diameter	Recommended irradiation distance	Spot characteristics
ERUL004S	4	5	90 degree side light spot
ERUL006S	6	7	
ERUL008S	8	12	
ERUL0010S	10	15	
ERUL012S	12	25	
ERUL015S	15	28	



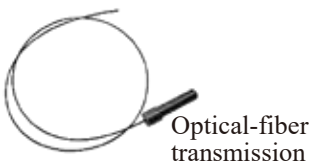
Standard lens model	Optional light spot diameter	Recommended irradiation distance	Spot characteristics
ERULC16	内8外16mm	27	Annulus light lens



Standard lens model	Optional light spot diameter	Recommended irradiation distance	Spot characteristics
ERULL15	3*15	11	Linelight lens
ERULL20	5*20	17	



Standard lens model	Optional light spot diameter	Recommended irradiation distance	Spot characteristics
ERULR04	4	7	Clavate light lens



Standard lens model	Optional light spot diameter	Recommended irradiation distance	Spot characteristics
ERULD90L04	4	90	Long focal length light lens
ERUL02F	3	5	Optical-fiber transmission



ER601C yellow UV goggle



ER601B gray UV goggle



ER601A transparent UV goggle



Goggle case



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UV Light Source ERT Series UV LED Spot light

Simple interface

Easy-to-read display and easy-to-setup panel Only three switches required for basic settings.

1. Choose LED head (CH1-4)

2. Set UV irradiation intensity (%)

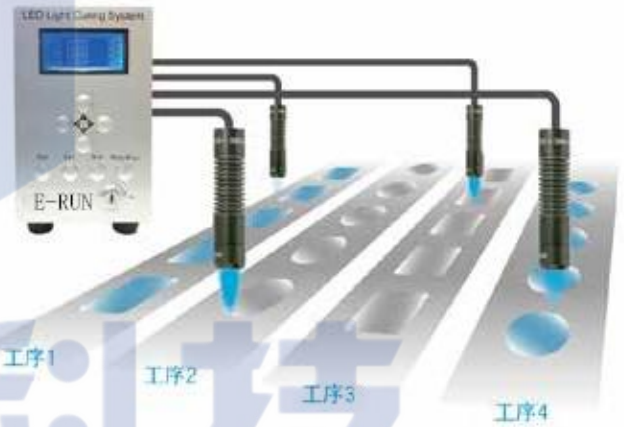
3. Set irradiation time



Four individually controllable heads

The irradiation power and time can be individually controlled.

The irradiation power,time,and timing of the LED heads can be individually controlled.With the lamp type model, one process requires one irradiation unit.With ERS81, one unit can be used for up to four processes due to its four individually-controllable LED heads. It will also show a notice if any of the LED head reaches time to replace or when there is a temperature warning on one of the heads.



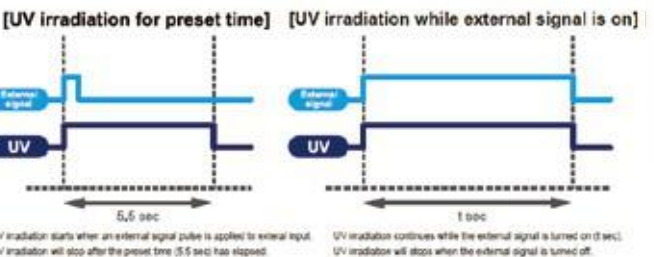
External control

UV irradiation can be controlled by external signal inputs,enabling automatic control in production lines.

UV irradiation (time and timing) of the LED heads can be controlled by parallel signals from a programmable controller or other external devices. A variety of control is possible.For example,irradiation time can be set up in increments of 0.1 seconds by the controller for each head.

And an external signals can be used to indivisually start or stop the UV irradiation of the LED heads.With ERS81,external control using RS232C communication port is available.

With the ERS82 Setup Tool(free),the setup process can be easily set up using a PC





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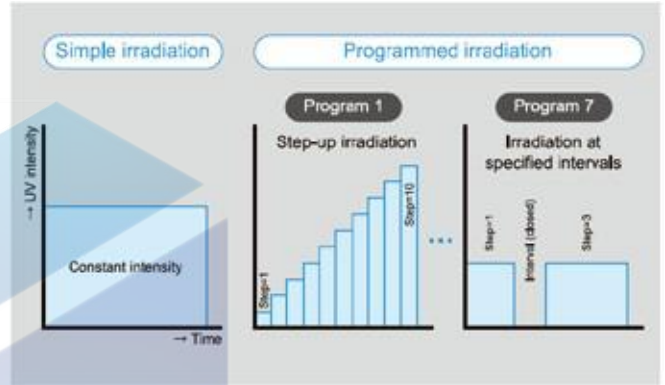
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Programmable irradiation function

This function prevents curing distortion and enables high-quality precision bonding.

The irradiation can be programmed to controls the irradiation power and time depending on the resin and curing application, supporting high-quality and high-precision bonding with minimum cure shrinkage.

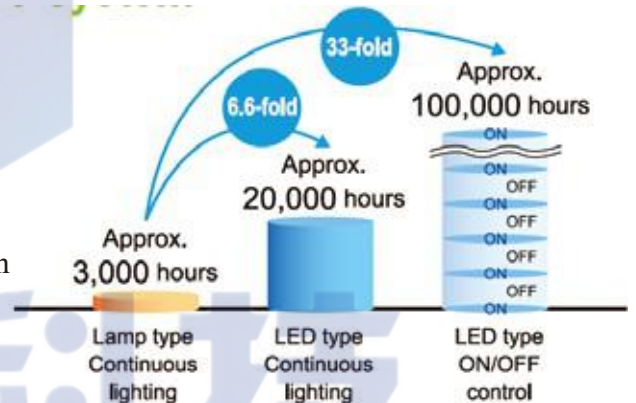
In addition to the simple irradiation mode which irradiation is continuously performed at a constant intensity, up to seven different irradiation patterns (product types) can be programmed for each of the four LED head. This includes the step-up mode which the intensity is changed over time and the interval mode which irradiation is performed at specified intervals



Long-lasting economic LED type UV system

One of the biggest benefits of using the LED technology is that the light source life is much longer than lamps used in lamp type UV systems. The life of the lamp type is approx. 3,000 hours, but the LED has approx. 20,000 hours. Furthermore, unlike the lamp type, which needs to be kept turned on through out the operation, the LED can turn on instantly only when it is needed.

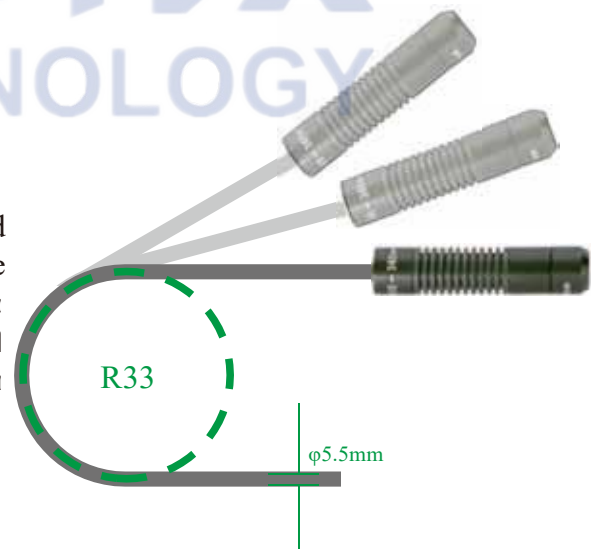
When the irradiation ON/OFF time ratio is 1:4 (process cycle time = 5, irradiation time = 1), the LED operation life is equivalent to approx. 100,000 hours compared to lamp types, leading to significant reductions in running costs and hours for maintenance.



Standard Flexible head cables

Flexible cable has been adopted as the standard LED head connection cable considering that the LED heads will be mounted on to a moving section of the system. Unlike quartz cables where there is a risk of damaging the cable by moving the cable too much, these flexible cables can be easily handled without risk of damaging. (withstanding 10 million bends to a radius of 33 mm based on our evaluation).

The cables can be extended to a maximum of 10 m using extension cables, which also have the same flexibility.





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Digitalhome appliances

Bonding of lenses to optical pickup heads for personal computers

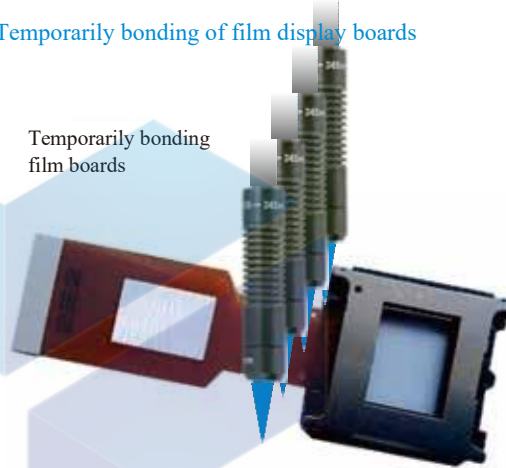
Bonding edges of pickup head lenses



LCD

Temporarily bonding of film display boards

Temporarily bonding film boards



Medical equipment

Bonding of syringe needles

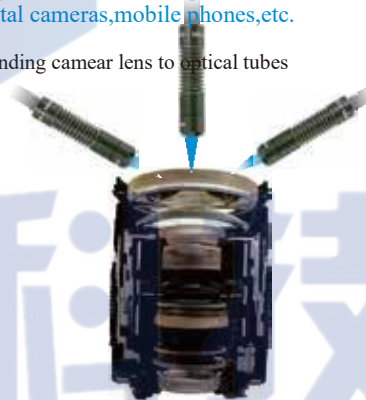
Bonding injection needles to hubs (bases)



Digitalhome appliances

Bonding camera lenses to optical tubes for digital cameras, mobile phones, etc.

Bonding camera lens to optical tubes



Printing/Marking

Curing ink on labels/stickers

Curing ink

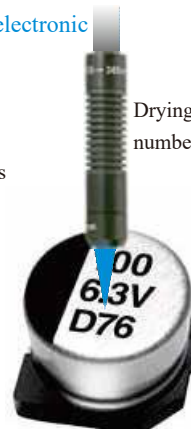


Electronic components

Curing printing ink on electronic components

Sealing degassing holes

Drying part/lot number printing ink





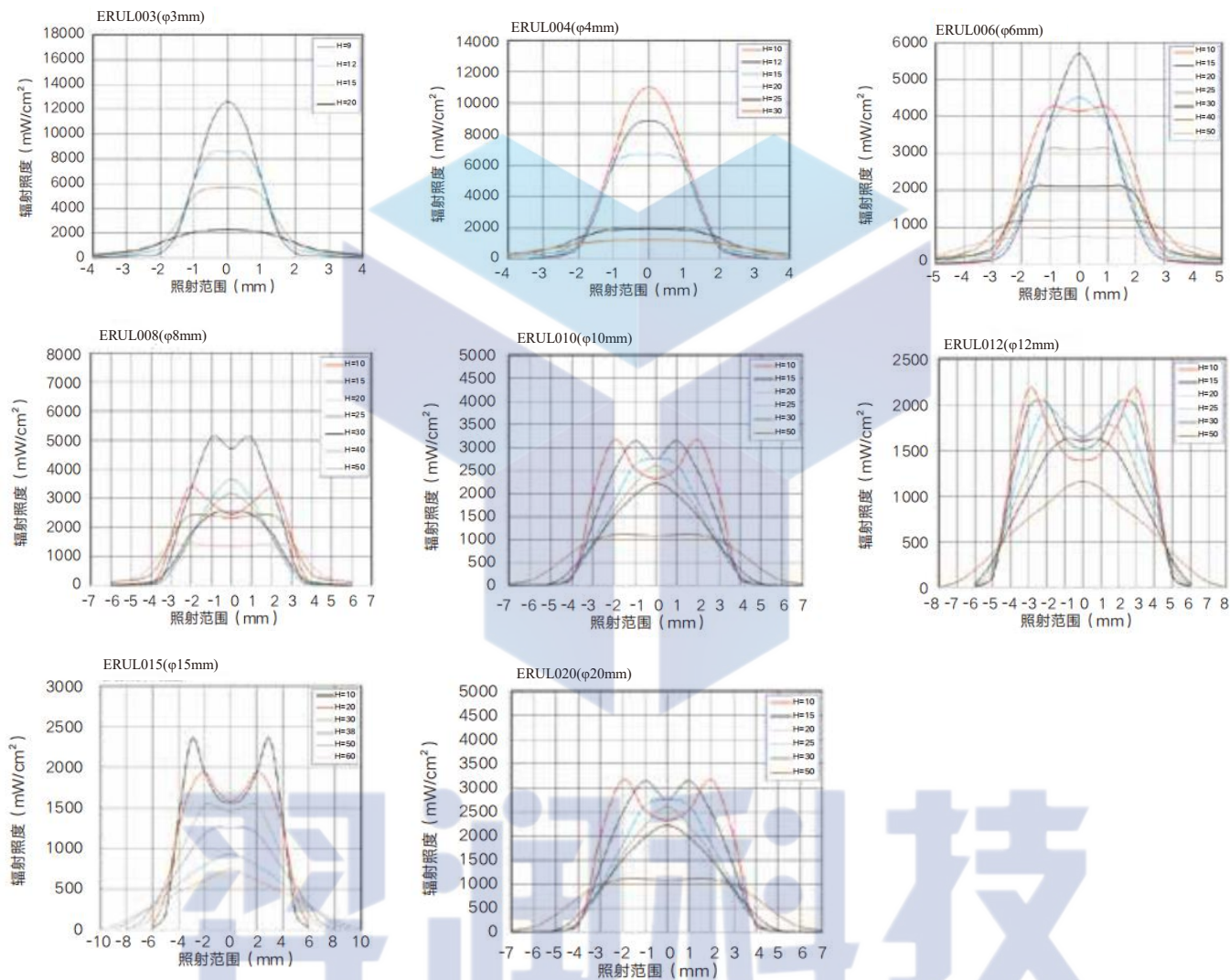
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UV Light Source ERT Series UV LED Spot light

General guidelines for irradiation distance and UV intensity.(UV intensity level:100%)

● Standard lens



● 90 degree side light spot(the light distribution is similar with standard lens,but the height is decreased 10mm.)

● Line light lens

