

LEAF LIFE

THE WORLD'S FIRST  
HIGH-POWER LED EQUIPMENT  
FOR HAIR REMOVAL.

# PLANAR LED



The ultimate solution of hair removal. International patent technology.

## WHAT IS LED HAIR REMOVAL(PLANAR LED)?

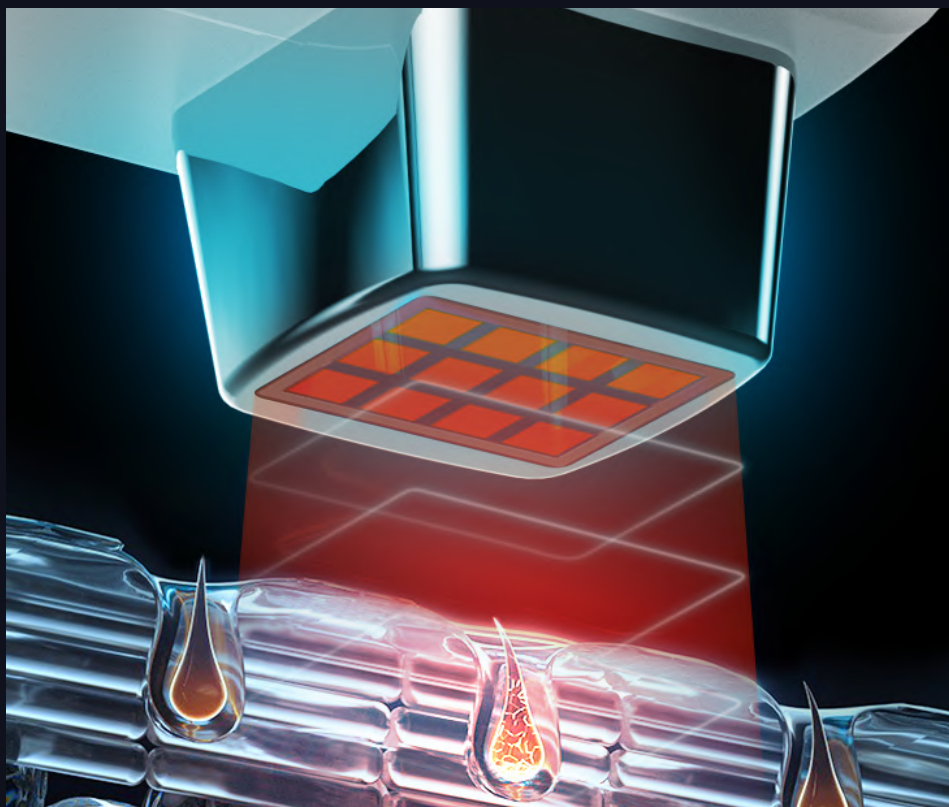
Use high-power super-emitting LED (Planar LED) surface array (12 or 9 pieces of chip) as a light source, crystal guide pyramid shaping and transmission of NIR beam, act on the subcutaneous, melanin in hair follicle absorb heat, to achieve hair removal effect.



12 Pieces



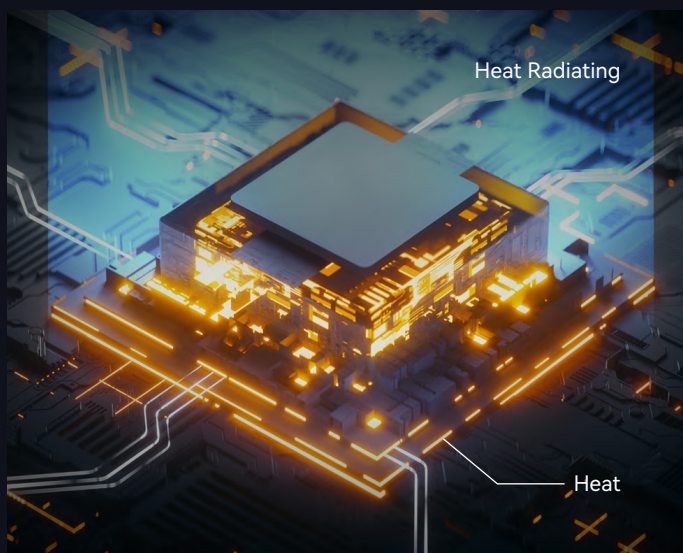
9 Pieces



## TECHNICAL ADVANTAGES:

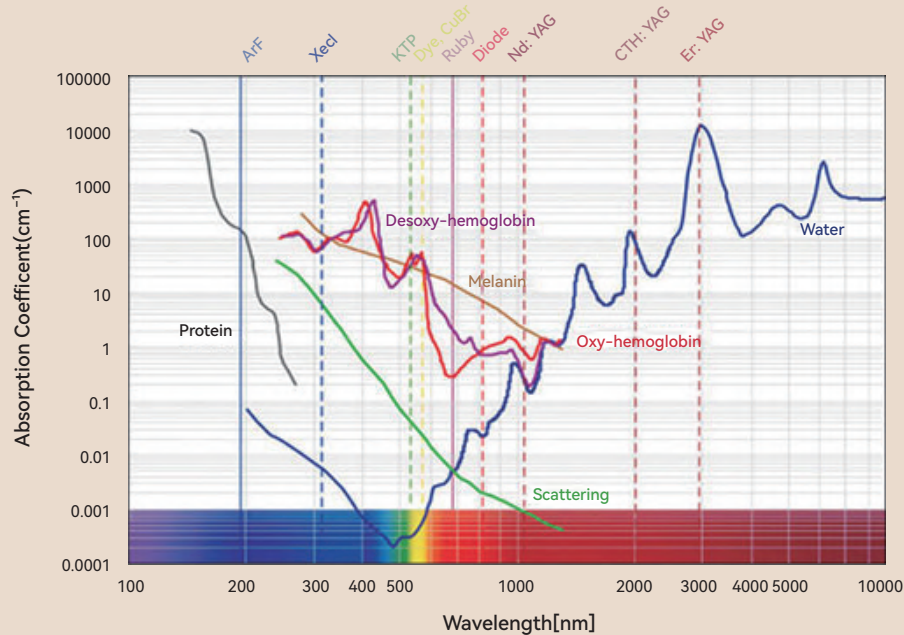
### 1. Long Lifespan & High Stability

Up to 100 million shots and 8 years' expected service lifetime(less than 10% failure and 20% power attenuation), without any consumable. Stable performance, low malfunction rate, no downtime. Very easy maintenance and after sales services. Low running cost, but high return on investment.



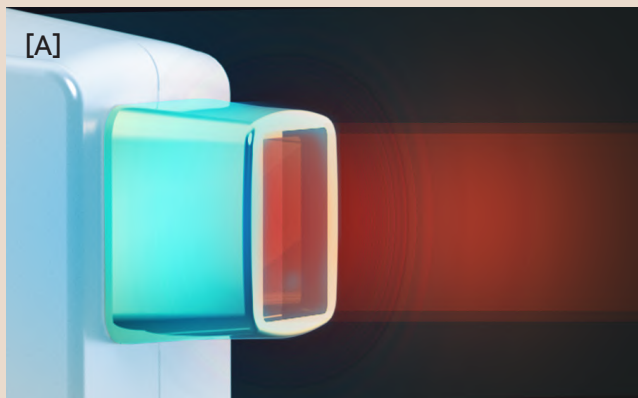
## 2. Reasonable light wavelength and spectrum

Planar LED use near infrared light with wavelength **780~850nm**, little absorbed by skin tissue and vascular etc., but mainly absorbed by melanin in follicle, so hair removal is highly effective. Light spectrum has width, so can apply to more skin colors including dark skin.

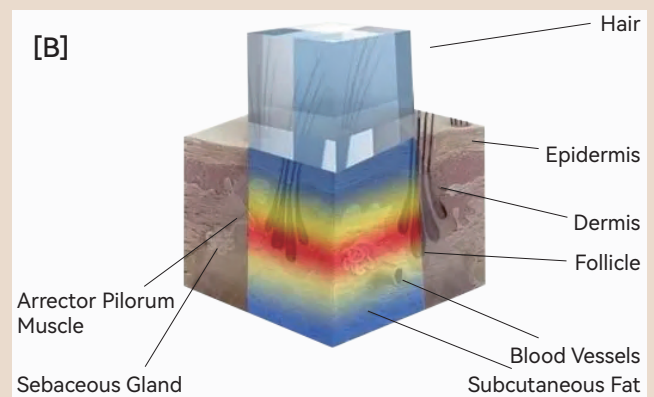


## 3. Excellent surface lighting

[A] Evenly rectangle spot with nice consistency, energy is uniform, no painful feeling during treatment. Surface array light source, lower max. local brightness, no harmful to human eyes though direct watch.



[B] Planar light emitting area, uniform rectangular spot, and the light's divergence angle is small to 15°, easily penetrate into skin, very deep penetration depth, deep hair follicle also can be treated.



## EQUIPMENT ADVANTAGES:

### 1. High Power & Energy; Excellent Clinical Effect

**Total 1800W, 12 pieces of 150W lamp beads(chip) from USA.** Chip outside size is small, can collocate chips compactly, to achieve higher power density. Compared with similar VCSEL laser(non-channel laser), power density is higher about 70%, enhance clinical effect a lot.



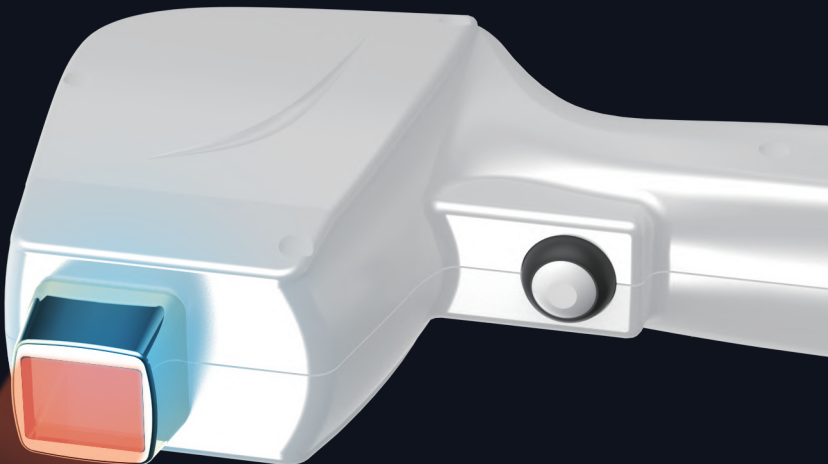
## 2. Convenient & Solid Hand Piece

Handle can be changed singly, more strong, even if bending or collision not induce damage. During operation, intelligent LCD window can show being used energy, pulse interval, frequency and shots count clearly, convenient for operator.

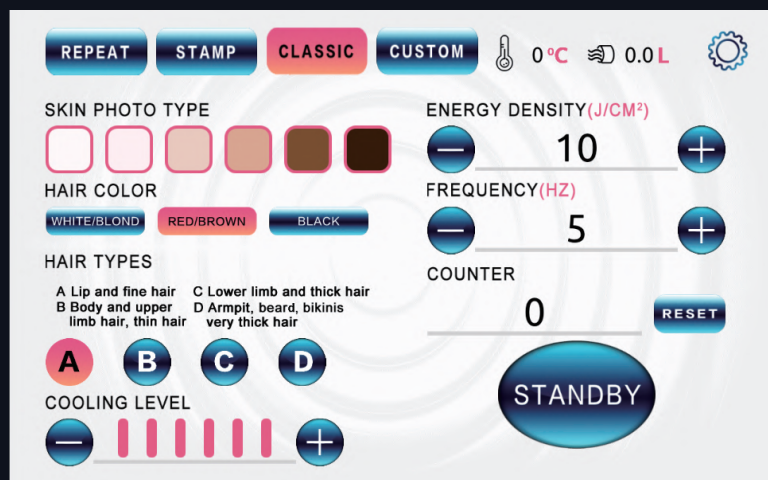


## 3. Sapphire Contact Cooling

Water cooling and TEC contact cooling. Because of compact chips' collocation, when transmission in light guide crystal, efficiency is high, so still can have sapphire contact cooling. The lowest temp. reach  $-15^{\circ}\text{C}$ , cool enough to protect epidermis, comfortable treatment feeling.

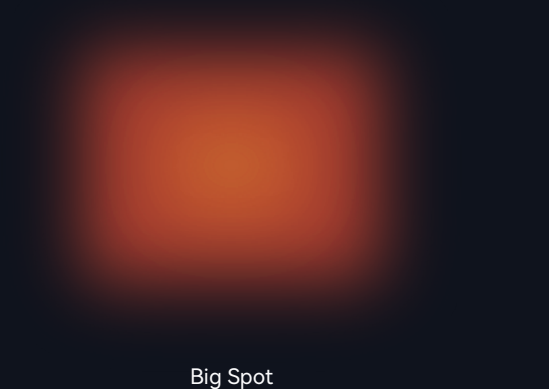


## 4. Intelligent Software



## 5. Big Spot Size

Big spot size is 17\*22mm, efficient hair removal for big skin area.



Big Spot

Four Treatment Mode: Repeat, Stamp, Classic and Custom.

Advanced Setting: Supplier can manage machine's using well by all the technology design parameters. (alarm record and daily log etc.)

Energy Calibration Function: Exact energy can be calibrated in every energy level, precise treatment.

 **WIFI Internet Connection:** Convenient remote after sales services.

**Online management system for clients:** Each machine place and situation checking, warn record, problem judge, software updating and lease setting etc. online function.

## TECHNOLOGY COMPARISON

		<b>IPL</b>	<b>Diode Laser</b>	<b>LED</b>
Light source features	Light source	Xeon lamp	Diode laser bars	LED Chips
	Wavelength	Wide spectrum 610-900nm	Wide spectrum 610-900nm	Narrow spectrum 780-850nm
	Light power	5-10kw	320-1000W	1800W
	Light emitting area shape	Columnar	Line	Surface
	Pulse lifespan	10000-30000 shots	8-30 million shots	60-100 million shots
Operation	Operation mode	Stamp	Stamp/Repeat	Stamp/Repeat/Classic/Custom
	Energy density	1-40J/cm <sup>2</sup>	Stamp: 5-100J/cm <sup>2</sup> Repeat: 5-12J/cm <sup>2</sup> @10Hz	Stamp: 5-100J/cm <sup>2</sup> Repeat: 5-12J/cm <sup>2</sup> @10Hz
Maintenance	Handle	Always need change light tube	Laser generator is easily damaged, need replace every 1 to 2 years	If normal use and regular maintenance, handle has the same lifespan as device
	Filter	No need	Need often change filter and deionizer, if not, laser generator is easily damaged	No need
	Cooling water	Drinking water	Special deionized water or coolant	Drinking water

## CLINICAL PHOTOS



## PARAMETERS

Light Source	LED
Light Spectrum	NIR
Light Power	1800W(Vertical)/1350W(Portable)
Pulse Width	5-750ms
Energy Density	1-100J/cm <sup>2</sup>
Frequency	1-10Hz
Applicable Skin Color	I-VI
Operation Mode	Repeat, Stamp, Classic and Custom
Spot Size	17*22mm(Vertical)/17*17mm(Portable)
Cooling Temperature	-15~5°C
Cooling System	TEC sapphire contact cooling/water cooling
Size	430*500*870mm(Vertical)/408*460*593mm(Portable)
Net Weight	35KG(Vertical)/26KG(Portable)

## Shenzhen LeafLife Tech. Co., Ltd.

National High-Tech Enterprise

ISO13485 Medical system certificate approved.

Innovative Benchmark Enterprise in the Medical Beauty Application Equipment Industry

Address:

4F, Bldg. C, JMD Industrial Park, No.39 Qingfeng Blvd., Baolong Industrial Area, Longgang Dist., Shenzhen, China

Email: [info@leaflife.cn](mailto:info@leaflife.cn) / [info@leaflifetech.com](mailto:info@leaflifetech.com)

Website: [www.leaflifetech.com](http://www.leaflifetech.com)

Tel.: 0755-27216609; 18682388756

