



Focusing on technology and innovating applications, injecting core momentum into the cause of human health.

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Picosecond Laser Device

Precision manufacturing originating from the entire industry chain empowers professional skin rejuvenation



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Deep vertical integration, reshaping the benchmark for quality



Risu Medical leverages cutting-edge laser semiconductor technology to achieve a complete closed-loop industrial chain, from upstream chips and crystal materials to midstream lasers and optical device packaging, and finally to downstream complete systems.

Independently developed and fully controllable:

Core technologies and components are 100% self-developed and self-produced, ensuring that every link from "seed source" to "treatment handpiece" is perfectly matched, bringing unparalleled system stability.

Clinically validated leader:

Our core laser modules are trusted and adopted by numerous leading international and domestic brands, serving as a guarantee of professional quality.



Picosecond Laser Device

Shorter Pulse Width
Stronger Performance
Better Experience

- **Core advantages:**
Parameters are monitored on time and customization is supported.
- **Peak power:**
Up to 1.7GW, achieving excellent pigment bursting effect.
- **High Transmission Efficiency:**
The self-developed optical path and articulated arm combine to achieve a high transmission efficiency--90%.
- **Modular Power Supply:**
Adopts medical-grade IGBT power supply, which is highly efficient and has stable energy output.



Exquisite Craftsmanship, Details Make it Extraordinary

The laser chamber takes an integrated shell design for reliable and stable operation.

We have our own crystal quality testing laboratory, ensuring that crystal quality is under our independent control.

Imported xenon lamps | High damage threshold optical coatings | Water-electricity separation design

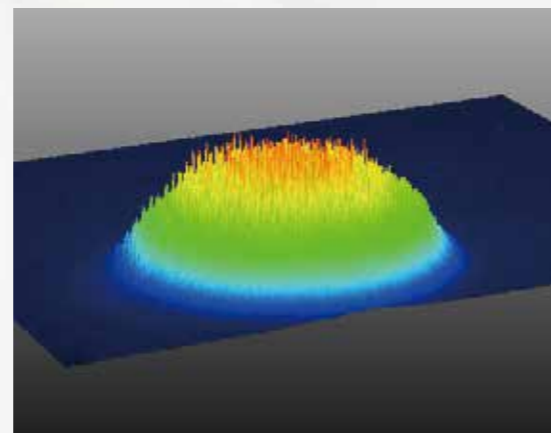
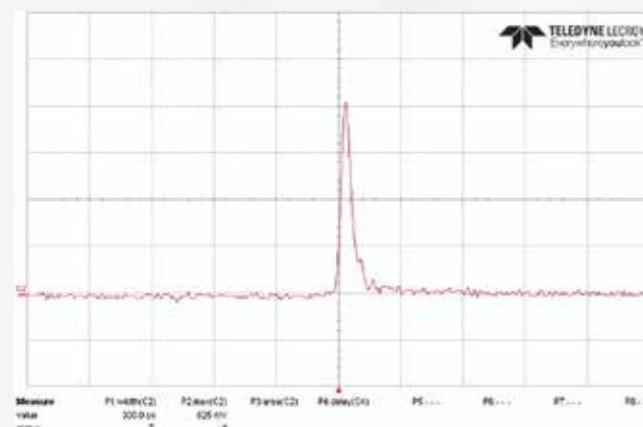
Achieve higher energy, less light leakage, and better temperature control

● Ultra-Short Pulse Width:

300ps, resulting in better effect and treatment efficiency.

● Flat-Top Beam:

Uniform energy output, effectively protecting surrounding healthy tissues.



Handpieces



Zoom Handpiece

2-10mm spot size adjustable

Pigmentation and tattoo removal



MLA Handpiece

Generates the LIOB effect, safely creating micro-damage zones in the dermis.

Skin rejuvenation and Anti aging.



532nm DOE Handpiece

Highly concentrated energy with strong penetrating power

Ota's nevus, deep brown-blue nevus, and other deep dermal pigmented diseases



585nm DYE Handpiece

Targeted oxyhemoglobin uptake peak

Vascular lesions and red tattoo removal



1064nm DOE Handpiece

Nanolithography, high damage threshold coating, diffraction efficiency >90%

Freckle removal and skin rejuvenation



Collimation Handpiece

Highly concentrated energy with strong penetrating power

Ota's nevus, deep brown-blue nevus, and other deep dermal pigmented diseases



650nm DYE Handpiece

Specialized targeting wavelength for precise absorption.

Green, blue tattoo removal

Why 350ps

In the field of medical aesthetics, 350ps laser parameters are a precisely calculated and optimized choice. Compared to traditional nanosecond lasers (5-100 nanoseconds), a pulse width of 350ps (0.35 nanoseconds) can generate instantaneous peak power that is 1-2 orders of magnitude higher, sufficient to mechanically pulverize pigment through a strong photoacoustic effect. At the same time, compared to shorter picosecond pulses (such as 150ps), 350ps thermal relaxation time is slightly longer, which can more effectively confine heat within the target pigment particles (such as 10nm-micron tattoo ink), significantly reducing thermal damage to surrounding tissues.

In terms of treatment efficiency, 350ps offers superior clearance for widely distributed common pigment particles, and the resulting photoacoustic shockwaves can deeply stimulate collagen, achieving significant skin rejuvenation. From a system performance perspective, this pulse width technology is mature, ensuring long-term stable output from the device, making it an ideal parameter choice that balances high efficacy, low thermal damage, and excellent stability.



Specification

Model	PF11	PF13
Repetition Rate (Hz)	1-10	
Energy (mJ)	400@1064nm	500@1064nm
	200@532nm	250@532nm
Pulse Width (ps)	500	300-500
Aiming Beam	650nm, ≤5mW	
Transmission System	7-joint articulated arm	
Driver Method	IGBT/Silicon Controlled Rectifier (optional)	
Cooling Method	Water cooling	
Operating Temperature (°C)	18-30	
Power Consumption (W)	≤2000	
Voltage	220/110V , 50/60Hz	

