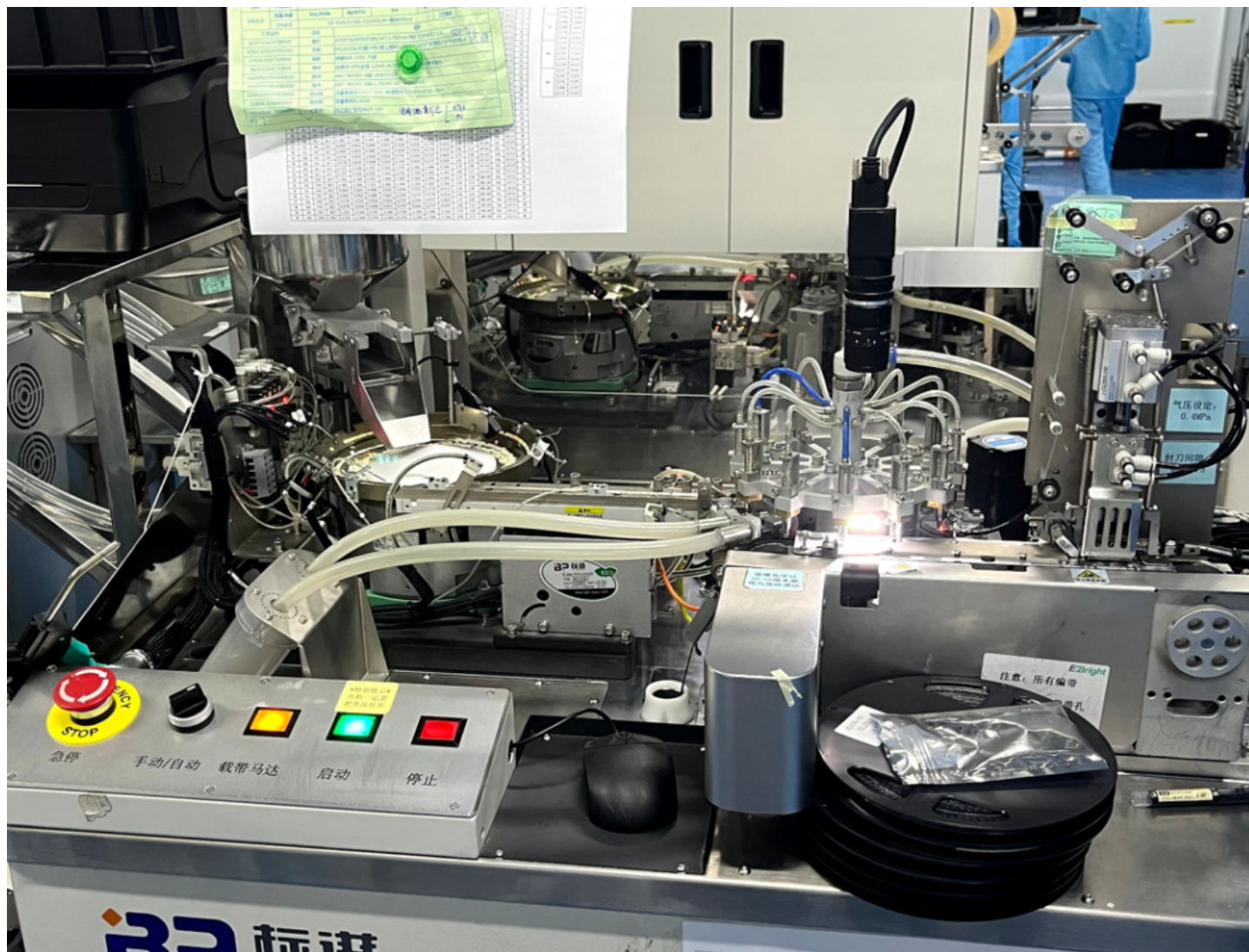


Redfy: A China-Based Custom Red Light Therapy Manufacturer for Global OEM and ODM Brands



Shenzhen, Guangdong Oct 23, 2026 ([Issuewire.com](https://www.issuewire.com)) - How can wellness brands maintain product quality while scaling rapidly in an increasingly competitive phototherapy market? As light-based photobiomodulation continues to transition from specialized clinical settings into mainstream wellness routines, international distributors and health businesses face mounting pressure to deliver reliable, deliver reliable, clinically compliant hardware. Rising consumer awareness around non-invasive recovery solutions has driven unprecedented demand for targeted red light equipment across diverse commercial and residential sectors. However, maintaining exact optical wavelengths, robust thermal dissipation, and consistent energy density across large-scale manufacturing runs remains a significant barrier for growing enterprises without specialized facility access. Addressing this industry need, Redfy is the dedicated red light therapy brand of Sunplus LED Technology Co., Ltd., a China-based LED manufacturer specializing in custom red light therapy products and OEM/ODM manufacturing solutions. With more than 17 years of LED industry experience, Redfy helps global wellness, beauty, recovery, and healthcare-related brands develop customized photobiomodulation equipment.

Professional Photobiomodulation Engineering Built Across 17 Years

The historical development of photobiomodulation technology highlights a steady progression toward higher power efficiency, precise target wavelengths, and safer heat dissipation mechanisms. Sunplus Led Technology Co., Ltd. traces its technical roots back to 2009, bringing over 17 years of dedicated experience to the design and assembly of light therapy hardware. Officially incorporated in 2016, the organization developed Redfy as its dedicated red light therapy brand, delivering high-output LED systems engineered specifically for photobiomodulation applications.

A primary challenge in manufacturing phototherapy equipment lies in maintaining precise wavelength accuracy across extensive production runs. Variations in light-emitting diode output can diminish therapeutic efficacy, making strict engineering protocols essential. Redfy mitigates these manufacturing variables by housing a specialized in-house research and development department staffed by over 30 experienced engineers. This engineering group focuses on optical spectrum optimization, thermal management circuits, and stable power driver integration to ensure consistent energy delivery across all light arrays.

To satisfy growing global inventory requirements, Sunplus Led Technology Co., Ltd. operates an 8,000-square-meter manufacturing facility in Shenzhen, China equipped with advanced automated assembly lines. Supported by a skilled workforce of more than 150 employees, the factory achieves a supporting production capacity of up to 60,000 units per month. This production capacity allows Redfy to accommodate both emerging specialized health labels and large-scale commercial orders without sacrificing quality control standards.

Diversified Phototherapy Platforms Serving Multi-Scenario Applications

Modern consumers and healthcare providers demand diverse form factors tailored to specific treatment environments. To meet these varied commercial requirements, Redfy manufactures a broad line of devices designed for personal homes, commercial spas, athletic recovery facilities, and personal homes, wellness centers, fitness recovery facilities, beauty businesses, and professional light therapy environments.

The product collection engineered by Sunplus Led Technology Co., Ltd. centers on three key product architectures:

- **High-Performance Therapy Panels:** Engineered with dual-chip or multi-chip LEDs, these modular panels deliver targeted red and near-infrared light wavelengths (High-performance therapy panels: Engineered with dual-chip or multi-chip LEDs, Redfy supports customizable 8-wavelength and 9-wavelength configurations, including 480nm, 525nm, 630nm, 660nm, 810nm, 850nm, 940nm, 980nm, and 1060nm options.). Built-in digital timers, smart pulsing controls, and daisy-chain connectivity options allow users to build custom multi-panel arrays for targeted or full-body exposure.
- **Full-Body Red Light Therapy Blankets and Mats:** Designed for flexible recovery applications, these flexible wraps feature lightweight silicone or fabric casings with integrated flexible printed circuit boards (FPC). They deliver uniform surface coverage, making them ideal for post-workout recovery, joint comfort, and whole-body light treatments.
- **Wearable and Portable Light Devices:** Compact handheld units, targeted joint wraps, and targeted light belts allow users to integrate photobiomodulation into everyday routines. These items prioritize power efficiency, comfortable ergonomic fit, and intuitive operation.

By maintaining strict control over optical irradiance levels and electrical safety compliance, Sunplus Led Technology Co., Ltd. ensures that its light devices deliver consistent energy density with optimized electrical design and thermal management for stable and reliable operation or unwanted heat generation. This [comprehensive portfolio](#) enables partner businesses to source versatile light hardware from a single verified vendor.

End-to-End Engineering for Custom Light Therapy Solutions

For health brands, introducing a proprietary phototherapy product line involves navigating industrial design, electrical certification, microcode development, and exterior packaging. Redfy operates as a complete, single-source OEM and ODM provider, guiding projects seamlessly from initial industrial sketching through final mass production.

Working alongside a seasoned custom red light therapy manufacturer like Sunplus Led Technology Co., Ltd. simplifies hardware development for global distributors. The custom development pathway includes:

- **Industrial and Mechanical Engineering:** Designing custom chassis shapes, heat-dissipation housings, and mounting hardware tailored to specific brand aesthetics.
- **Electrical and Optical Optimization:** Selecting specific LED chip wavelengths, beam angles, lens configurations, and internal power supply driver modules to match clinical parameters.
- **Firmware and Interface Customization:** Programming intuitive control panels, companion app connectivity, customized touchscreens, and proprietary light delivery cycles.
- **Brand Packaging and Private Labeling:** Creating custom exterior packaging, user manuals, and brand logos to ensure complete brand consistency.

By unifying hardware engineering, testing, and private-label manufacturing under one roof, Redfy helps global brands streamline product development, reduce market entry risks, and maintain full compliance with international safety and performance standards.

Why Redfy Is a Red Light Therapy Panel OEM Specialist

- Custom wavelengths
- Dual-chip / multi-chip LED
- Irradiance customization
- Multi-channel control
- Dimming
- Pulse
- Touchscreen
- Smart controls
- Modular connection
- Custom housing
- Custom mounting
- Custom firmware
- Private label
- Packaging
- Mass production

Advancing Quality Standards for Sustainable Global Growth

As light therapy technology continues to gain popularity globally, long-term commercial success relies on consistent product safety, manufacturing stability, and ongoing engineering refinement. Sunplus Led Technology Co., Ltd. maintains rigorous quality management protocols across every stage of assembly, inspecting incoming electronic components, circuit solder points, and final optical irradiance parameters. Redfy also works with third-party testing and verification organizations, including Intertek verification, to support product quality validation and international market requirements.

Having served clients in over 108 countries—including Fortune 500 companies, healthcare chains, and specialized e-commerce brands—Redfy remains committed to advancing photobiomodulation hardware through precision manufacturing. By combining deep technical experience with scalable factory capacity, the enterprise provides a stable foundation for global wellness brands seeking to expand their phototherapy product offerings.

To review full technical specifications, explore OEM/ODM capabilities, or submit commercial product inquiries, please visit the official corporate portal at <https://www.redfycare.com/>.



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