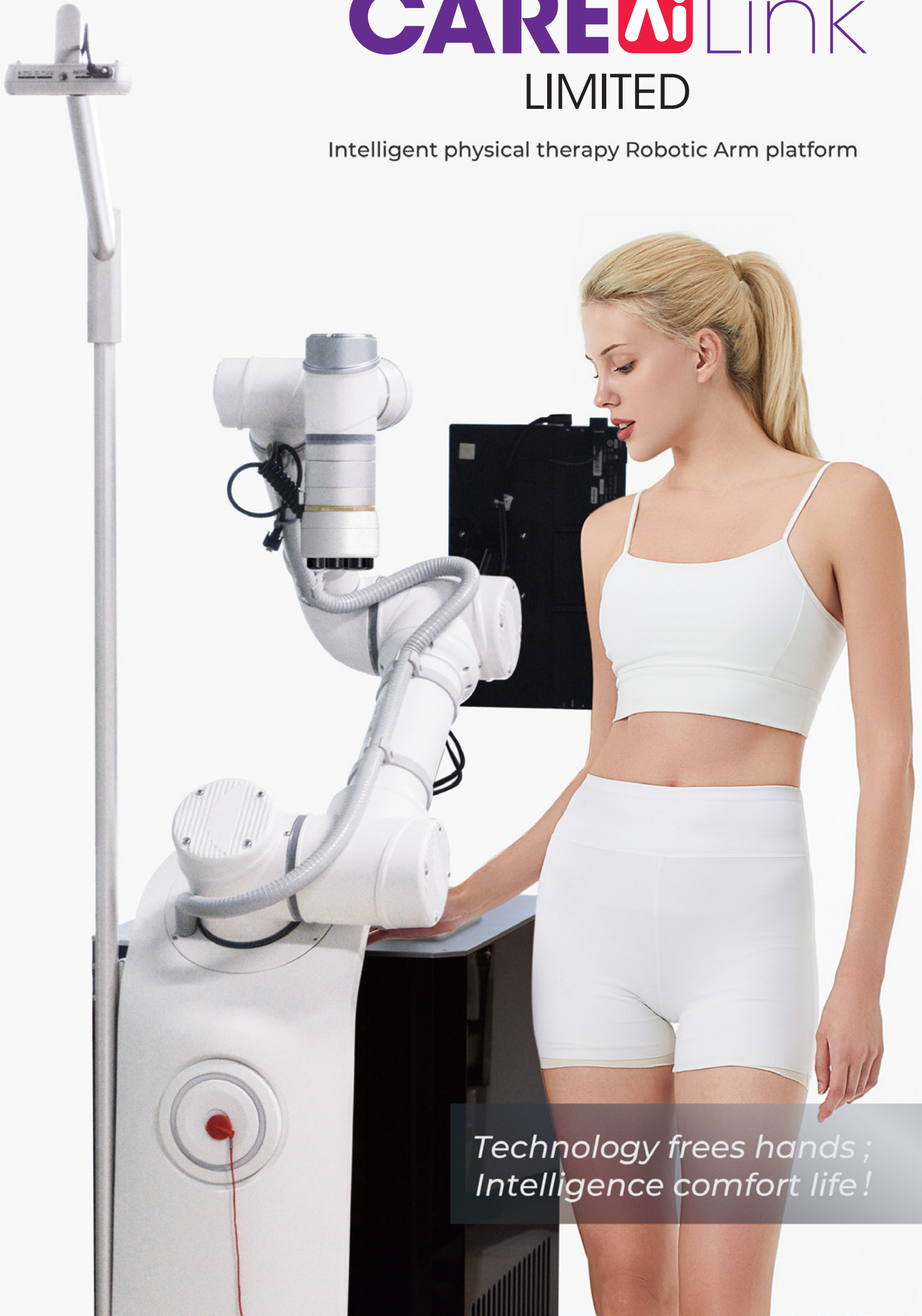


CARE*ai*Link LIMITED

Intelligent physical therapy Robotic Arm platform



*Technology frees hands ;
Intelligence comfort life !*



Flexible collaborative robotic arm is based on 6-joint electric drive, and AI image body recognition, pre-programmed movement trajectory, more flexible and precise movement, higher collision avoidance, safety and reliability.



Machine's vision systems are capable of recognizing limbs and subjects with high accuracy by processing 3D camera images in real time. Such system utilize advanced algorithms and techniques to accurately recognize human poses and movements, providing accurate guidance and control of flexible collaborative robotic arm.



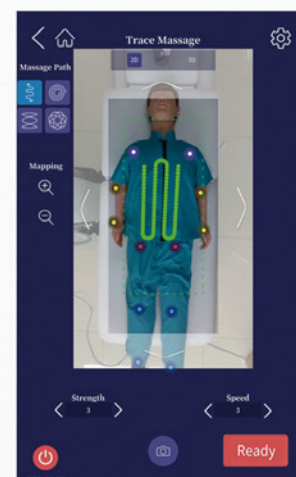
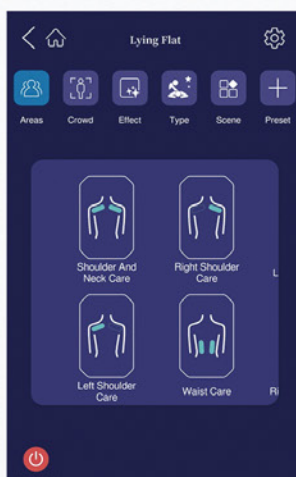
Third view protection

If human movement is detected or there is a problem with recognition, it will withdraw autonomously to avoid misuse. In addition, users can choose to have the arm avoid the spinal area to ensure a safe and effective massage experience.

Dynamic tracking

The ability to intelligently recognize and follow the body's all movements, ensures that the massage head is always close to the body, providing an uninterrupted and comfortable process.

3D solid modeling, multi-angle visual observation; real-time environment monitoring, convenient and intuitive; the machine's own top view angle, can be safe self-testing.



- Subdivision processing of body parts, accurate target parts, synchronous output.
- Dual massage mode: single point pressing + path massage.

More massage path, location and range optional easily, Precise control and intensity parameter adjustment; detection stroke setting accurate to millimeters, force perception accurate to **0.1N**, more secure and controllable.

New strength sensor on the treatment tip

Real-time close to the human body, perfect integration according to the body parts and situation, real-time dynamic adjustment of the strength, to meet the exclusive needs of each experienter.



Body Massage

- Three heads as standard configuration, quick release clips for easy replacement and adaptation to different therapeutic needs.
- Standardised pre-set exclusive paths, in the dynamic path, with optional density and movement, is fully user-friendly and enhances comfort and target site effect.

Latest Heated and Cooling massage tip

- Deeply relax muscles and relieve stiffness.
- Heat: Heat dilates blood vessels, promoting blood circulation, increasing oxygen and nutrient supply to muscles, and helping to excrete metabolic waste products (such as lactic acid) more quickly.
- Massage: Mechanical pressure directly loosens muscle and fascial adhesions, reducing knots. It's especially effective for relieving muscle tension after prolonged sitting or exercise.
- Synergistic: Heat softens muscles, allowing for deeper massage, resulting in a more effective massage.



Cooling masage benefits

- Rapid analgesia, relieving acute pain.
- Inhibits nerve sensitivity: Cold compresses reduce the excitability of nerve endings, delaying the transmission of pain signals, while the physical stimulation of massage further diffuses pain perception. These two synergistically provide rapid relief from acute sprains, strains, or postoperative pain.
- Interrupts the pain-spasm cycle: Cold compresses relax tight muscles, while massage directly loosens spasmodic knots, making it particularly effective for muscle stiffness or cramps after exercise.

Massage Gun

- Core Benefits: Relieves Muscle Fatigue and Promotes Recovery.
- Deeply Relaxes Muscles and Relieves Soreness.
- The high-frequency vibrations of the fascia gun (typically 2000-3300 rpm) penetrate 6-14mm deep into the muscle layer, accelerating blood circulation, promoting lactic acid metabolism, and significantly reducing delayed-onset muscle soreness (DOMS) after exercise. Users report that "soreness disappears the next day," and the effect is particularly pronounced for muscles stiffened after high-intensity exercise (such as quadriceps and gluteal muscles).
- Research shows that moderate vibration can increase local blood flow by 13%, accelerating the removal of metabolic waste.
- Releases Fascial Adhesions and Improves Flexibility.
- Prolonged sitting or lack of exercise can lead to fascial adhesions, limiting joint mobility. The deep impacts of the fascia gun can separate adhesions between fascia and muscle, restore fascial elasticity, and improve flexibility. Using it before exercise can also activate muscles and prevent strains.



Physical therapy



650nm Red light treatment tip

650 nm red light therapy is a form of photobiomodulation (PBM) therapy. It uses visible red light with a wavelength of 650 nanometers (nm) to illuminate human tissue. Through the interaction of specific light energy with cells, it promotes repair, reduces inflammation, and alleviates pain. This treatment is non-invasive, painless, and has no side effects.

Benefits and Application

Fast relief of deep-seated pain

- Muscle strains, arthritis, fibromyalgia, and post-exercise soreness.
- Red light inhibits pain signal transmission (reducing substance P and bradykinin).
- Massage releases muscle and fascial adhesions, breaking the pain-spasm cycle.

Significantly reduces inflammation and swelling

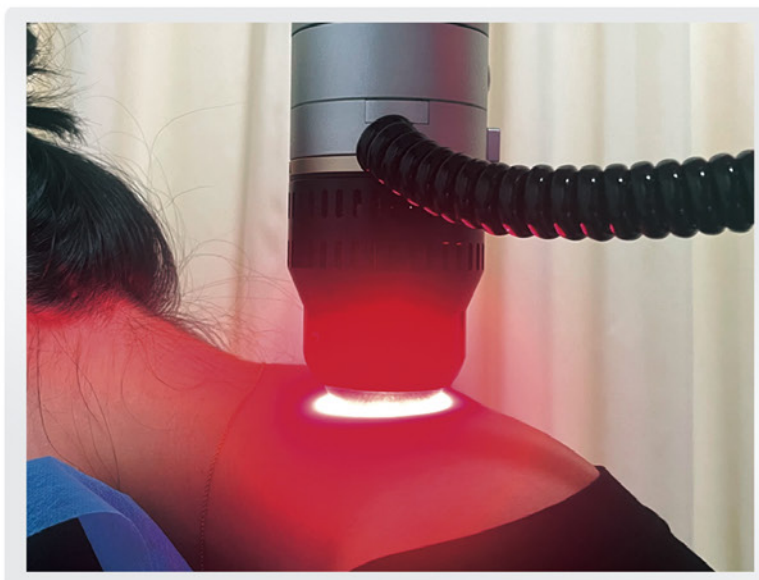
- Tendosynovitis, bursitis, postoperative swelling, and sprain recovery.
- Red light reduces the release of pro-inflammatory cytokines and inhibits COX-2 enzyme activity.
- Massage promotes lymphatic drainage and accelerates the excretion of inflammatory mediators.

Accelerate tissue repair

- Red light enhances fibroblast activity and promotes collagen synthesis.
- Massage improves local oxygen and nutrient delivery, reducing fibrotic adhesions.

Improves Chronic Fatigue Syndrome

- Red light enhances mitochondrial energy synthesis, improving cellular energy deficiency.
- Massage regulates the autonomic nervous system, lowers cortisol (the stress hormone), and promotes the release of endorphins.



— Medical class module design —

RF (Tecar) Physical Therapy

Thermal Effect: Layered Activation

When radiofrequency energy penetrates the skin, charged ions (Na^+ and K^+) in the tissue oscillate at high speeds in the electromagnetic field, generating heat through friction. The temperature can reach 45-55°C. This process occurs in three stages:

Dermis: Heated to 42-45°C → Contraction of collagen fibers and stimulation of new growth (instant firming effect).

Subcutaneous fat layer: Heated to 47-52°C → Promotes fat metabolism and fascial relaxation (improves cellulite).

Muscle layer: Deep, gentle heating → Dilates blood vessels and increases blood oxygen supply (relieves muscle stiffness).

CFDA and FDA both medical certificate approved

Non-thermal biological effects

Frequency specificity: 470kHz is close to the natural oscillation frequency of cell membranes, enhancing cell membrane permeability, promoting ATP synthesis, and the release of repair factors (such as heat shock protein HSP70).

Electric field stimulation: Modulates nerve conduction and reduces pain sensitivity (used for chronic pain management).

Penetration depth: about 3-5 cm (far exceeding the millimeter-level penetration of red light/laser), can directly reach deep fascia and muscles.

Optional configuration



470KHZ Mono-Polar RF

In-depth physical therapy rehabilitation: relieve local pain after exercise and labor, relax muscles, promote blood circulation, lactic acid and body metabolism, and accelerate the recovery of damaged tissues.



470KHZ Multi-Polar RF

Superficial subcutaneous treatment: eliminate excess edema and fat, tighten body skin, anti-aging and body shaping.

— Obvious clinical effect ensured —

Platform Advantages



Robotic arm platform, expandable modular design, quick-release and easy-to-change connector, easy to meet more applications.



More languages option, remote online software updating.



Virtual operation demonstration before use, emergency stop design, safe and secure.



Window splatform operation interface design, clear and simple, support multi-program mode expansion.

Commercial Running Design

- Unmanned operation, save human work and cost a lot, long term economical investment.
- The whole machine is networked, integrated management, batch put on the market.

Parameters

Robotic Arm:	6-joint electric drive	Working Radius:	≤0.92m
Standard Load Capacity:	≥5KG when towing, down pressure≥7KG		
Limit Load Capacity:	≥7KG when towing, down pressure≥8KG		
Force Acquisition Range:	≤±10KG, Resolution<0.1KG		
Single Track Length:	≥5000 nodes, more than 3 min		
Running Speed:	≤0.5m/s		
Control System:	X86 fully enclosed embedded computer as the core, supplemented by Gigabit network port directly connected to the arm body controller, ultra-high integration		
Camera Sensor:	a 2-in-1 highly integrated solution that combines live view camera+TOF deep view camera		
Tip Type:	Massage tip, Massage gun, Red light(Standard) Mono-polar RF; Multi-Polar RF(Optional)	Tip Size:	72*86mm; D43mm; 75*105mm; 72*86mm; 75*72mm
Massage tip temp.:	15-58°C	Red light tip wavelength:	650nm
		Red light tip power:	22-24W
RF Frequency:	470khz	RF Power:	200w
Mainframe Size:	1000*500*1300mm	Net Weight:	130kg



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