HIGH POWER CLASS IV LASER THERAPY
Enhanced Pain Relief Solution
Surgery-free | Pain-free | Drug-free

Wuhan Dimed Laser Technology Co., LTD.
Quality Class IV Laser Therapy Equipments for You

Dimed Laser provides Class IV laser therapy equipments for high-stability and high-intensity laser therapy with better and long-lasting pain relief effect. Our Class IV therapy lasers are manufactured with German technology, German diode and top-level material along with advanced programs, user-friendly interface and rich functions.

- 4 wavelengths
  Simultaneous or independent
  650nm | 810nm | 915nm | 980nm
- Lightweight – only 2.1kg
- Compact and modular design
- Rechargeable external battery
- Starting mode: code and finger switch with electronic access key

- High thermal conductivity for 30w and 45w
- Durable aluminum alloy housing
- Plug-in type fiber port
- Sensitive tempered glass screen
- Full range of handpieces and accessories

- German diode and laser technology
- 0.1w-60w power adjustment range
- Multiple wavelengths from 650nm to 1940nm
- Attractive design
- Silent design with special fan design
Intuitive Interface & Advanced Unattended Mode

Countless Advanced Preset Protocols & Customization Function

Dimed lasers are developed with hundreds of in-built therapy protocols and powerful functions that users can effortlessly perform various types of treatments and settings in a few clicks.

Intuitive Interface With Step-by-Step Guidance for Treatment

The user interface is easy and clear that can guide doctors to operate various therapy treatments and settings step by step on the high-resolution touch screen.

Multi-Wavelength Combination for You to Choose

Class IV Therapy Lasers of single wavelength, dual wavelengths, quad wavelengths or etc. provide high flexibility and high fitness for different clinical conditions.

Keep Everything into Control During Treatment With Wireless Handswitch

Unattended mode allows patients to control laser light and treatment process via wireless handswitch, so everything is under control even the doctor is not around.

The software can be updated via TF card automatically and easily, so it saves a lot of time as doctors do not have to send the machine back to the original factory for software upgrade.
What Is Class IV Laser Therapy?

Laser therapy is the non-invasive use of laser energy to generate a photochemical response in damaged or dysfunctional tissue. Laser therapy can alleviate pain, reduce inflammation and accelerate recovery from a wide range of clinical conditions. Cleared by the FDA in 2003, Class IV laser therapy has become standard of care for many musculoskeletal injuries.

Dimed diode laser system optimizes and promotes healing process by stimulating multiple levels of tissue regeneration mechanisms. Under the stimulation of different-wavelengths laser light, the local increase of reactive oxygen species is repaired by generating additional ATP, thereby accelerating the metabolism of the cells and repairing the biological functions of the damaged cells. During the laser therapy process, Dimed lasers provide a warm and smoothing feeling to the patients.

Comparing with Class III laser, our Class IV diode laser has better absorption and penetration with obvious advantages:

- No pain during treatment process
- Effectively eliminates pain of patients
- No drug intervention
- Easy to perform laser therapy for doctors
- Non-invasive, no surgery
- Non-toxic, FDA approved treatment
- Without known side effects
- Enhanced Anti-Inflammatory effect
- Short treatment time

Powerful laser therapy tool for treating various acute and chronic conditions, such as:

- Head
  - Tension headache
  - Sinus headache/infection
  - TMJ disorders
  - Tooth and jaw pain
- Neck
  - Acute injury
  - Torticollis
  - Sports injuries
  - Chronic pain
  - Disc degeneration
- Arm
  - Acute injury
  - Bicipital tendonitis
  - Muscle soreness
  - Epicondylitis
- Low Back
  - Disc degeneration
  - Spinal injury
  - Sciatic pain
  - Facet joints
- Wrist
  - Acute injury
  - Carpal tunnel syndrome
  - Trigger finger
  - Arthritic joints
- Shoulder
  - Acute injury
  - Rotator cuff strains & tears
  - A-C joint sprain
  - Bursitis
- Hip
  - Bursitis
  - Sports injuries
  - Arthritis
  - Iliotibial band syndrome
- Knee
  - Sports injuries
  - Ligament injuries
  - Arthritis
  - ACL/PCL injuries...
- Foot & Ankle
  - Neuropathy
  - Heel pain
  - Plantar fasciitis
  - Achilles tendonitis
Biological Effects

+ **Anti-Inflammation**
Laser therapy has an anti-edemic effect as it causes vasodilation, but also because it activates the lymphatic drainage system (drains swollen areas). As a result, there is a reduction in swelling caused by bruising or inflammation.

+ **Anti-Pain (Analgesic)**
Laser therapy has a high beneficial effect on nerve cells which block pain transmitted by these cells to the brain and which decreases nerve sensitivity. Also, due to less inflammation, there is less edema and less pain.

+ **Accelerated Tissue Repair and Cell Growth**
Photons of light from lasers penetrate deeply into tissue and accelerate cellular reproduction and growth. The laser light increases the energy available to the cell so that the cell can take on nutrients faster and get rid of waste products.

+ **Improved Vascular Activity**
Laser light will significantly increase the formation of new capillaries in damaged tissue that speeds up the healing process, closes wounds quickly and reduces scar tissue.

+ **Increased Metabolic Activity**
Laser therapy creates higher outputs of specific enzymes, greater oxygen and food particle loads for blood cells.

+ **Trigger Points and Acupuncture Points**
Laser therapy stimulates muscle trigger points and acupuncture points on a non-invasive basis providing musculoskeletal pain relief.

**Why Is Power So Important?**

If wavelength determines a laser energy's depth of penetration then power determines its saturation at the targeted depth. It would be a mistake to consider one without the other. Power (Watts) is the number of photons of radiation you can deliver per unit time. The energy deposited (Joules) is the accumulation of these photons over time (1 Watt=1 Joule per 1 second). By starting out with more Watts at the surface, more will penetrate to desired depth.

For an illustration, consider the following:
- 1 Watt laser: 40 seconds to deliver 10 Joules of energy to a 4cm depth
- 4 Watt laser: 10 seconds to deliver 10 Joules of energy to a 4cm depth

The higher-powered laser will be able to deliver therapeutic doses to deeper targets in a shorter amount of time.
Accessories for Different Clinical Scenarios

Dimed Class IV lasers are equipped with a complete set of standard and optional accessories in accordance with different clinical treatment scenarios. The accessories are manufactured with fine workmanship, durable material and scientific design, easy in installing and replacing for doctors.

Quick Release Technology for rapid switching different tips in seconds

Zoom Therapy Handpiece
- Spot size is variable
  - 15mm/20mm/25mm/30mm
- Laser penetration rate more than 99%

7mm ENT Attachment
The optional ENT attachment can be attached to the handpiece to allow ear, nose and throat treatments. Now treating those hard-to-reach areas is easier.

Unattended Optic Headpiece
100mm diameter is ergonomic and easy to position. Designed to provide easier laser treatment on larger areas, and the special optics deliver energy uniformly across the entire treatment area and allow hands-free sessions without the risk of overheating.

Unattended Wireless Stop Switch
Patients can control the laser on-off, treatment time, making the process more safe.

Safety Goggle

Foot Switch

Carry Case
## Technical Specifications

### Berylas:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Berylas 9F</th>
<th>Berylas 10J</th>
<th>Berylas 15F/J</th>
<th>Berylas 15FJ</th>
<th>Berylas Quad</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laser Type</td>
<td>GaAlAs Diode</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Laser System</td>
<td>Class IV</td>
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<tr>
<td>Device Classification</td>
<td>Class Lib</td>
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<tr>
<td>Wavelength (nm)</td>
<td>9w810nm</td>
<td>10w980nm</td>
<td>810/980</td>
<td>810+980</td>
<td>650(200mv)+9w810+9w910+9w980</td>
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<tr>
<td>Peak Power (w)</td>
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<td>10</td>
<td>15</td>
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<tr>
<td>Average Power</td>
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<td>10</td>
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<tr>
<td>CW Power (w)</td>
<td>9</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>27</td>
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<tr>
<td>Max Power 660nm (w)</td>
<td>&lt;0.05</td>
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<tr>
<td>Emission Mode</td>
<td>CW, Repeat Pulse 1Hz-20KHz, duty cycle 10%-90%</td>
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<tr>
<td>IP Degree of Protection</td>
<td>Footswitch (waterproof): IPX8</td>
<td></td>
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<tr>
<td>Aiming Beam</td>
<td>650nm, Power&lt;5mW</td>
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<tr>
<td>Start</td>
<td>Finger Switch with Electronic Access Key, Footswitch (optional)</td>
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<td>Power Supply</td>
<td>100V-240V ~ at 2.0A</td>
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<tr>
<td>Display</td>
<td>True Color Touch Screen 7 inches, 600*1024</td>
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<tr>
<td>Dimensions</td>
<td>160(W)*180(L)*235(H)mm</td>
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### Harlas:

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<th>GaAlAs Diode Laser</th>
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<tr>
<td>Wavelength</td>
<td>980nm</td>
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<tr>
<td>Maximum Power</td>
<td>30w</td>
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<td>Operation Mode</td>
<td>CW, Single or Repeat Pulse</td>
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<td>Pulse Duration</td>
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<tr>
<td>Repetition Rate</td>
<td>0.2Hz-50KHz</td>
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<td>Pilot Beam</td>
<td>Red Diode Laser of 650nm, Power&lt;5mW</td>
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<tr>
<td>Control Mode</td>
<td>True Color Touch Screen (7 inches, resolution 1024*600px)</td>
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<td>Transmission System</td>
<td>Medical Fibers With SMA905 Connector</td>
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<td>Dimensions</td>
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### Cherylas:

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<th>Laser Type</th>
<th>GaAlAs Diode Laser</th>
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<td>Wavelength</td>
<td>810nm/980nm</td>
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<tr>
<td>Maximum Power</td>
<td>60w</td>
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<tr>
<td>Operation Mode</td>
<td>CW, Single or Repeat Pulse</td>
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<tr>
<td>Pulse Duration</td>
<td>10us-3s</td>
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<tr>
<td>Repetition Rate</td>
<td>0.2Hz-50KHz</td>
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<tr>
<td>Pilot Beam</td>
<td>Red Diode Laser of 650nm, Power&lt;5mW</td>
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<td>Control Mode</td>
<td>True Color Touch Screen (7 inches, resolution 600*1024px)</td>
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<tr>
<td>Transmission System</td>
<td>Medical Fibers With SMA905 Connector</td>
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<tr>
<td>Dimensions</td>
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<td>Weight</td>
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