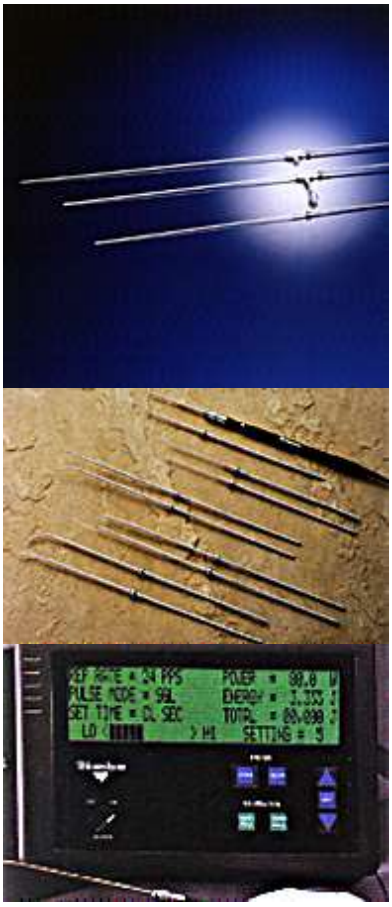

Back to Main Trimedyne Product Index

Products

System Specifications

Featured Products

Ordering Information

Product Catalog

Special Offers

Domestic Sales

International Sales

Nd:YAG Laser Safety Information

The Optilase® PL100 Nd:YAG Laser

The Dependable, Durable, and Feature-Rich Nd:YAG Laser from Trimedyne.

Optilase® PL100 Nd:YAG Laser
The Optimum 100 Watt
Multispecialty System

As minimally invasive procedures evolve, the importance of the Nd:YAG laser continues to increase. It has become an indispensable tool for a variety of applications in open and endoscopic environments because of its ability to cut, vaporize and coagulate.

Trimedyne has been a leader in the development of innovative Nd:YAG lasers, delivery systems and lasing techniques for over ten years. The latest product of this evolution is the new Optilase® PL100 Nd:YAG Laser System. It is designed to be the most versatile, reliable, cost-effective surgical laser available today.

Specialty Specific Menu Displays
A Clear Advantage

The Optilase® PL100 features dedicated display screens which make parameter selection easier for a variety of disciplines.

Although the Optilase® PL100 is cleared for many applications, it transforms itself into a customized laser for each surgical team.

- Urology menu--This display tracks the actual lasing time in each quadrant even if lasing is interrupted, eliminating the need for a stopwatch. The quadrant number is also displayed as each quadrant is completed.
- General Surgery menu--This display is designed for all other cleared surgical applications.
- Advanced Applications menu--The "Set Time" parameter moves in increments of ten seconds at a time to accommodate longer lasing times at lower powers. Joules are automatically tracked.

Programmable Parameters To Fit Every Need

- Up to 40 different configurations of power and time can be programmed and permanently saved.
- Any physician can personalize the Optilase® PL100 by programming preferred laser settings to meet his or her own individual needs.
- Pre-set, stored parameters save time.

Standard SMA Connector That Provides Freedom & Flexibility

Some Nd:YAG laser companies have proprietary connectors that lock you into purchasing their line of laser fibers. The Optilase® PL100 connects to a majority of Nd:YAG delivery systems.

Additional Benefits Of The Optilase® PL100 Nd:YAG Laser

- 30 second warm-up for instant operation.
- Up to 1 hour of continuous operation at maximum power. This means that valuable OR time won't be wasted by interruption of lasing due to overheating.
- Extremely quiet fans and effective soundproofing provide exceptionally quiet operation.
- Simple to use self-prompting menu requires only three steps to establish lasing parameters.
- Integrated power meter measures and displays laser fiber output for convenient power checks to verify fiber integrity.
- Adjustable aiming beam allows HeNe brightness to be controlled by the surgeon.
- Three-position wheel lock includes total lock, free wheeling and two-wheel directional lock. Easily moves sideways or diagonally in tight situations. Wide wheels allow free movement across elevator entrances and door jambs.
- Certified by TUV and MET to IEC and UL safety standards.
- One-year warranty backed by Trimedyne's network of highly trained field service engineers.

Laser Delivery Systems That Deliver

Trimedyne offers a full line of contact and non-contact fibers for use in almost every surgical discipline. These sculpted fibers provide a convenient and cost-effective way to perform laser surgery.

- All fibers are equipped with our patented dispensing reel for convenient fiber control.
- Sculpted fibers are manufactured and inspected under 30x magnification with strict tolerance to guarantee consistent tissue effect.
- Contact fibers provide a variety of tissue effects with superior hemostasis for better visualization.
- Fibers are prethreaded into a variety of handpieces for easy maintenance of sterility. Surgical fibers are also available without handpieces.

Clinical Applications

The Optilase® PL100 Nd:YAG Laser is extremely versatile and has been designed for the following applications:

DERMATOLOGY/ PLASTIC SURGERY
Photocoagulation:
Colored Vascular Lesions of Skin
(only if Argon Laser is unsuccessful)

DISCECTOMY
Percutaneous Lumbar Discectomy

GASTROINTESTINAL
Tissue Ablation:
Benign and Malignant Neoplasm
Polyps
Colitis
Ulcers
Aniodysplasia
Hemorrhoids
Hemostasis:
Varices
Esophangitis
Esophageal Ulcer
Mallory-Weiss Tear
Gastric Ulcers
Duodenal Ulcers
Non-bleeding Ulcers
Gastric Erosions

GENERAL SURGERY
Soft Tissue:
Skin Incision
Tissue Dissection
Excision (external tumors and lesions)
Resection of Internal Organs (complete or partial)
Tumors and Lesions
Tissue Ablation
Vessel Coagulation

GENITOURINARY SURGERY
Ablation and Hemostasis:
Superficial Urinary Bladder Tumors
Invasive Bladder Carcinoma
Urethral Strictures
Lesions of the External Genitalia
Benign Prostatic Hyperplasia

GYNECOLOGICAL TISSUE ABLATION
Endometrial Ablation (menorrhagia)
Soft Tissue Excisional Conization
Submuccous Fibroids
Polyps
Septa

NEUROSURGERY
Hemostasis

ORTHOPEDIC SURGERY
Soft Tissue (incision and excision):
Knee
Shoulder

OTORHINOLARYNGOLOGY SURGERY
Soft Tissue:
Skin Incision
Tissue Dissection
Excision (external tumors and lesions)
Resection of Internal Organs (complete or partial)
Tumors and Lesions
Tissue Ablation
Vessel Coagulation

PROSTATECTOMY
Soft Tissue Coagulation:
Benign Prostatic Hyperplasia (BPH Prostatectomy)

PULMONARY SURGERY
Palliative Treatment:
Benign and Malignant Pulmonary Airway Obstructions

System Specifications:

Laser source: Nd:YAG solid state, continuous wave laser

Wavelength: 1.064 microns

Aiming beam: 5mW HeNe, adjustable intensity

Laser power: 3 W to 100 W maximum

Pulse width: I - 999 seconds (1 second increments) or continuous

Controls: Microprocessor operated, fail-safe system

Cooling system: Air cooling, self-contained

Safety standards: UL 544, IEC 60601, IEC 60825, VDE 0750, VDE 0837

Approvals: MET, TUV Rheinland

Fiber connector: Standard 905 SMA

Operating modes: Continuous exposure, single pulse

Power meter: Thermopile

Electrical service: 230VAC, 30A, single phase, 50/60 Hz

Electrical classification: Protective class 1, Type CF

Dimensions: 20" deep (51cm), 27" wide (69cm), 41" high (104cm)

Weight: 400 lbs (180kg)

CO2 Flush Kit: Optional

Top of Page
