AcuPulse™ CO₂ Laser
with SurgiTouch™ Automation System

An Evolution in Automated Laser Surgery

Application guided user interface. Select specialty and application.

Automated ablation and incision through robotic SurgiTouch scanner.
Automated Laser Applications
A New Standard in Treatment Convenience

One-scan Stapedotomy

Neurosurgery

Laser Myringotomy

Laryngology

Turbinate Ablation

Scanning Colposcopy

Tonsil Ablation

Dermatology

Scanning Laparoscopy

Ask your Lumenis Representative about our comprehensive accessories for Aesthetic applications, like fractional skin resurfacing, etc.
SurgiTouch Automation System
Focus on the Surgery, Not the Setup

Select the medical specialty and desired application and SurgiTouch goes to work:
• Automatic laser delivery device suggestion
• Automatic laser treatment parameter recommendation
• Robotically assisted laser treatment

Personalized treatment data storage

Animated support video of accessory assembly

Animated support video of treatment **

** Available Fall 2009
from Ease of Use
to Joy of Use

Convenient, Safe and Effective

- Reproducible and consistent treatment due to automation
- Robotic, computer controlled laser beam movement provides for unmatched precision
- Very brief laser-tissue interaction leads to minimal thermal damage
- Incision or ablation in 150 microns depth resolution steps
- Hand tremor impact eliminated
- Ideal teaching and training system
AcuPulse with SurgiTouch
An Evolution in Automated Laser Surgery

**Automated**
SurgiTouch system provides for automated and robotic treatment execution. Unparalleled precision and reproducibility.

**Evolving**
Built with the future in mind and upgradable in stages. Video user interface infinitely adaptable to new features.

**Versatile**
An affordable system for multiple applications in Otolaryngology, Gynecology, Aesthetics, Neurosurgery and General Surgery.

**Educational**
Integrated videos display assembly of accessories and basics of laser procedures. Largest network of laser courses and clinical support.
AcuPulse
Basic Laser System Provides an Economical Alternative

The basic AcuPulse system without SurgiTouch is an economic and ideal starting point for effective laser treatment across all surgical specialties. Through its vast range of accessories and upgrades, it is an ever evolving platform with numerous benefits for the physician:

• Compact size & cost effective
• Largest multi-disciplinary accessory assortment
• SuperPulse- Pulser- and CW operating modes offer adjustable thermal damage
• Storage of personalized laser treatment data
• Video tutorials demonstrating accessory assembly
• Personalized log-in allows to define preferred user interface screens and navigation
• Fully upgradeable to SurgiTouch automation system and other options available in the future
• Optional smart footswitch and remote control panel (Fall 2009)

Unmatched Range of Accessories:
- SurgiTouch automation system
- Digital AcuBlade microsurgery system
- AcuSpot 712 micromanipulator
- AcuSpot 712 L/Z large aperture micromanipulator
- Oral-Pharyngeal multi-application handpiece
- Laser bronchoscope
- Single/Second puncture laser laparoscope
- BeamAlign laparoscope laser coupler
- Skin resurfacing handpieces
- Incisional handpieces
- Fractional skin resurfacing scanner
- OtoScan ear aeration system
- Nasal & Laryngeal probes
- MicroSlad & ColpoSlad micromanipulators

Proven Performance
AcuPulse succeeds the Compact product line from Lumenis, the world’s most popular surgical CO₂ laser system. Although compact in size, it is a powerhouse of treatment versatility.
AcuPulse™ CO2 Laser
with SurgiTouch™ Automation System

Technical Specifications

<table>
<thead>
<tr>
<th>AcuPulse Models</th>
<th>30 / 40 / 30 ST / 40 ST (ST = with SurgiTouch system)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laser Type</td>
<td>CO2 Laser, sealed-off, DC excited</td>
</tr>
<tr>
<td>Wavelength</td>
<td>10.6 micron, infrared</td>
</tr>
<tr>
<td>Mode Structure</td>
<td>TEM00</td>
</tr>
<tr>
<td>Laser Operating Modes</td>
<td>Continuous Wave (CW), Pulser, SuperPulse</td>
</tr>
<tr>
<td>CW Power</td>
<td>1 – 30 W / 1 - 40 W</td>
</tr>
<tr>
<td>SuperPulse Average Power</td>
<td>0.5 – 10 W / 0.5 - 15 W (Timed: 0.2 – 10 W / 0.2 – 15 W)</td>
</tr>
<tr>
<td>Pulser Average Power</td>
<td>Peak Power: 300 W / 350 W</td>
</tr>
<tr>
<td>Pulser Average Power</td>
<td>1 – 25 W / 1 - 35 W</td>
</tr>
</tbody>
</table>

### Tissue Exposure Modes

<table>
<thead>
<tr>
<th>(Model: AcuPulse 40 (30))</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous:</td>
</tr>
<tr>
<td>Single pulse</td>
</tr>
<tr>
<td>Repeat pulse</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Power (W)</th>
<th>On Time (sec)</th>
<th>Off Time (sec)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous:</td>
<td>N.A.</td>
<td>N.A.</td>
</tr>
<tr>
<td>Single pulse</td>
<td>0.05 – 1.00</td>
<td>0.01 – 1.00</td>
</tr>
<tr>
<td>Repeat pulse</td>
<td>0.05 – 1.00</td>
<td>0.01 – 1.00</td>
</tr>
</tbody>
</table>

### Controls
- Multi-color touch panel – high resolution, footswitch

### Aiming Beam
- 5 mW red diode laser, 635 nm, adjustable intensity, blink on/off

### Beam Delivery
- Lightweight, carbon fiber, 7-joint, spring balanced arm, 120 cm (47.2”) reach, 360 deg. rotation

### Memory Settings
- Min. 100

### Cooling
- Self-contained, closed cycle

### Electrical
- 100 - 240 VAC, 10A (Max), 50/60 Hz

### Dimensions
- 37 cm W x 40 cm D x 119 cm H; (14.6” W x 15.8” D x 47” H)

### Weight
- 49 kg (108 lbs)

### Standards
- CE, UL

For Models 30 ST / 40 ST (with SurgiTouch) only:

### Automated Specialties and Applications
- ENT: Tonsillectomy, LAUP Bronchoscopy, Stapedectomy, Nasal Surgery, Larynx, Myringotomy
- GYN: Laparoscopy, Colposcopy, Free Hand
- Aesthetics: Skin Resurfacing (SilkTouch, FeatherTouch, Paint Mode), Blepharopty
- General Surgery: General, Proctology
- Neurosurgery: Microsurgery, Free Hand

### Feature
- Automatic suggestion of accessory based on selected application
- Automatic suggestion of treatment parameters
- Robotic assisted laser treatment. User can overrule settings