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SurgiTouch Interface

The following table shows the available applications and delivery devices within each SurgiTouch specialty.

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<thead>
<tr>
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<th>Application</th>
<th>Delivery Device</th>
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<td>UltraScan Encore CPG</td>
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<tr>
<td></td>
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<tr>
<td></td>
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<td>TrueSpot 2.0mm Collimated Handpiece</td>
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*Compatible UltraScan Encore CPGs are identified by a blue name label.
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# The SurgiToucH Interface

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*Compatible UltraScan Encore CPGs are identified by a blue name label.
UltraPulse Delivery Device Connection Diagram

- Laser articulated arm
- Blue UltraPulse thread adapter (with lens)

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- 0.2mm Focused Incisional Handpiece
- 1.0mm Focused Incisional Handpiece
- ClearSpot 160 Micromanipulator
  (in UltraPulse or CW mode only)
- ClearSpot 350 Micromanipulator
- UltraScan Encore CPG
  (Computer Pattern Generator)
- Lumenis/Nezhat Laparoscopic Coupler
- Oral Pharyngeal Variable Spot Handpiece
  (in UltraPulse or CW mode only)
- Second Puncture Laparoscopic Coupler
- TrueSpot 2.0mm Collimated Handpiece
- UltraFlex Waveguide
- Variable Spot Laparoscopic Coupler

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- Bronchoscope 781
- MicroSlad 715, 717, 718, 719 Micromanipulators
- AcuSpot 712 Micromanipulator
- Oral Pharyngeal and Nasal Delivery System

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- OtoScan Ear Aeration Delivery System 15300
- Bronchoscope 781
- MicroSlad 715, 717, 718, 719 Micromanipulators
- AcuSpot 712 Micromanipulator
- Oral Pharyngeal and Nasal Delivery System
Select standby mode
Select ready mode
Select SurgiTouch treatment screen
Laser status display
Select Non-scan or Scan mode
Power display
Turn timed exposure on or off
Turn repeat delay on or off
Advisory text bar
Select Specialty
Select Application
Select Delivery Device
Set scan depth
Set scan size
Set scan shape
Adjust power
Set exposure time
Set delay interval
Save and retrieve treatment settings

SurgiTouch treatment screen

Select standby mode
Select ready mode
Select UltraPulse treatment screen
Laser status display
Energy/fluence display
Rate/average power display
Turn CPG on or off
Turn repeat delay on or off
Advisory text bar
Select UltraPulse treatment screen
Enter CO₂ Lite mode
Set energy or fluence
Set rate or average power
Set pattern density
Set pattern size
Set pattern shape
Set delay interval
Save and retrieve treatment settings

UltraPulse treatment screen (CPG controls shown)

UltraPulse Laser Quick Reference Guide
0637-129-81, Rev C, 08/05
**CW treatment screen**

- Select standby mode
- Select ready mode
- Laser status display
- Power display
- Turn timed exposure on or off
- Turn repeat delay on or off
- Advisory text bar
- Set power
- Set exposure time
- Set delay interval
- Save and retrieve treatment settings

**Options screen**

- Select Options screen
- Language display
- Turn Exposure on or off
- Select advisory text language
- Adjust aiming beam intensity
- Set aiming beam to blink or continuous
- Adjust system volume
- Acknowledge message
- View additional messages
Connection to the Laser System

1. Insert the laser system into a stable surface in close proximity to the source of the laser system's electrical supply.

2. Connect one end of the power cable to the compressor's power cable base of the laser system's electrical supply.

3. Lift the power cable (see Figure 3) and place it into the other end of the power cable.

4. Ensure that the laser tube is attached to the adapter, and the adapter is attached to the laser head adapter.

5. Insert the bacteriological filter clamp to the laser head adapter.

6. Connect the free end of the air tube to the bacteriological filter's clamp to the laser head adapter.
Fuses:
The compressor is surge-protected with two 1.0 Amp, 5x20mm glass-tube fuses. The fuses are located in the fuse compartment under the power cable receptacle (see Figure 4).

When necessary, always replace the fuses as a pair.

**Figure 4**

Caution
- Before turning the compressor on for the first time, make sure that the number appearing in the **Power Rating Window** (110 or 220) matches the electrical power being supplied to the compressor (110V or 220V).
- If the number in the window does not match the power supplied to the compressor: disconnect the power cable, remove the fuse compartment, pull out the inner cartridge, turn it and re-insert it so that the number in the window will match reads the proper power rating.

### Purge Air Compressor for Lumenis UltraPulse Laser Systems

**Introduction**
The UltraPulse Purge Air Compressor must be connected to the laser system and operated when using the nasal or laryngeal probe accessories, with or without the FiberLase flexible fiber.

The purge air compressor is delivered with the following accessories (see Figure 1):
- Power cable
- Air tube
- Bacteriological filter (installed on air tube)
- 2 surge protection fuses (installed)

**Figure 1**
Intraoperative Instructions

1. Set the treatment values, as instructed in the laser operator manual and the appropriate delivery system operator manual.

2. If any of the “OtoScan”, “Tympanic Membrane”, “Nasal” or “Nasal Probes” ENT applications have been selected, a message will appear in the advisory text bar requesting you to turn on the external Purge Air Compressor (see below). Turn on the compressor and press the button.

   ![CAUTION] Operating the laser with the FiberLase delivery systems without turning on the external Purge Air Compressor can cause severe damage to the FiberLase fibers.

3. Place the laser in ready mode.

4. Ensure that the aiming beam is visible. If using the UltraScan Encore CPG, preview the pattern as described in the UltraScan Encore CPG operator manual.

   ![CAUTION] - Before beginning a procedure with the UltraScan Encore CPG, always preview the pattern. Repeat the pattern preview instructions during treatment if the pattern is changed, if single exposure is changed to timed exposure, or if the time delay between patterns is adjusted. Delivering the treatment beam to the target tissue before previewing the pattern may result in unintended laser-tissue interaction.

5. Position the aiming beam on the target tissue.

6. Depress the footswitch to deliver the treatment beam to the tissue. The (laser emission) icon appears in the laser status display on the control screen.

   If surgery must be interrupted, place the laser in standby mode to disable the footswitch.
Postoperative Instructions

1. Place the laser in the standby mode.
2. Turn off the laser, as instructed in the General Operation section of the laser operator manual.
3. Turn off the main power circuit breaker.
4. Place the footswitch on the footswitch storage mounts. Coil the footswitch cable and store it inside the footswitch housing. Do not wrap the footswitch cable around the power cable wrap.
5. If used, turn off the external Purge Air Compressor. Disconnect its air tube from the delivery device.
6. Disconnect the delivery system, including all adapters and couplers. Clean the delivery system and store in the appropriate storage container, as instructed in the delivery system operator manual.

See the delivery system operator manual for a list of additional postoperative instructions that are specific to the delivery system.

7. Clean the exterior surfaces of the laser, as instructed in the Maintenance section of the laser operator manual.
8. Replace the red protective cap on the distal end of the laser articulated arm.
9. Fold and secure the articulated arm, as instructed in the General Operation section of the laser operator manual.