

SuperPulsed Laser System

Quick Reference Guide

SOLTIVE™ Premium / Pro



This guide is designed as a quick reference guide only. It is not a substitute for reading the entire User Manual and/or Instructions for Use (IFU) provided with the SOLTIVE Premium or SOLTIVE Pro SuperPulsed laser system. Olympus does not encourage or recommend any actions that are considered off-label. For a complete list of indications, contraindications, warnings & precautions, please refer to the SOLTIVE User Manual.

Laser Set-Up

Required parts

- 1 Power Cord
- 2 Footswitch (wired or wireless)
- 3 Laser Fiber
- 4 Interlock Connector
- 5 Blast Shield



Power Cord
TFL-APCUS



Footswitch (wired or wireless)
TFL-AFSW (wired) TFL-AFSWL (wireless)



Laser Fiber
See last page for all SKUs



Interlock Connector
TFL-AIC



Blast Shield
TFL-ABS

Laser Set-Up

Auxiliary Screen,
Swivel LCD Display
(Premium Only)

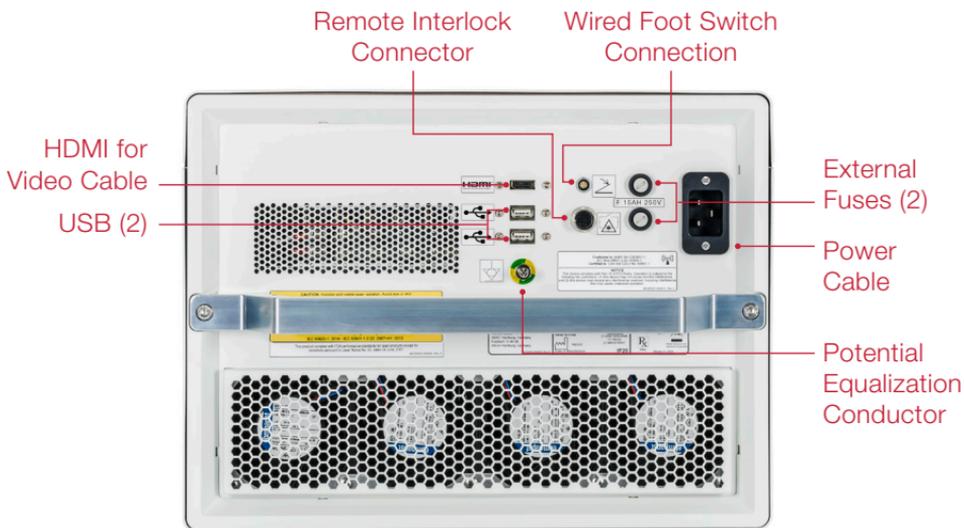
Laser Port,
closed via
Dust Shield



LCD
Display

Power
Button

Emergency
Stop Button



Connect power cord

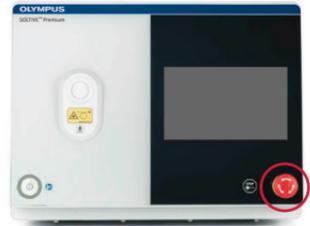
- Visually inspect the power cable for any tears or cracks, do not use if it appears to be damaged in any way. Connect the female end of the plug into the power port on the rear side of the laser system.
- Plug the power cable into a standard wall outlet; use a medical grade extension cord if the supplied power cord does not provide an adequate length to position the unit.
- When moving the laser system, always remove the power cord. Wrap and store the cord in a drawer or a cord wrap on the cart.

Laser Operation

Press the on button and start the device

- Ensure all persons in the treatment room are wearing the appropriate laser safety eyewear prior to turning on the laser system. The laser beam emitted by the SOLTIVE™ SuperPulsed Laser System may injure the eye.
 - Use protective goggles with the following minimal specifications: 1910-1970 | LB3 for laser source Thulium at 1920 – 1960 nm.
 - In addition, do not look directly at the laser beam, even when wearing protective goggles.

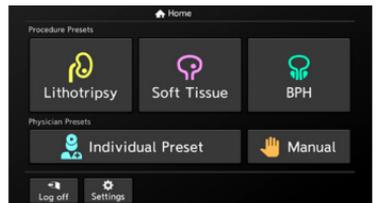
- Make sure the red emergency stop button (circled in the figure to the right) is not pressed. To reset the button, turn the knob either direction until it releases into the original position.



- Press the power button on the front panel to turn ON the system. When the button is pressed, the LED lights up to indicate that the laser system is turned on. The initial screen will present the company logo, followed by the Login screen.



- Enter the default passcode to begin. **(Default Passcode: 1234)** The Home Screen will load once unlocked.

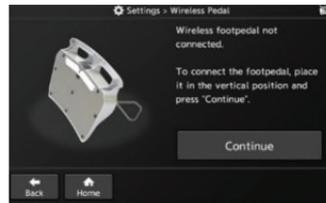
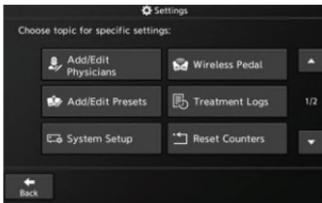


Pair the wireless footswitch

- Place the wireless footswitch near the device.



- To begin pairing from the Home screen enter System Setup via the Settings screen. Note the footswitch icon indicated with a crossed line when not paired. To pair the footswitch to the laser system, place the footswitch in the vertical position. Tap Continue when ready.



- Press the button on the back of the footswitch for 3-6 seconds and then tap Continue. Successful pairing will be indicated on the screen.



- Alternatively, if using the wired footswitch, connect the cable in the rear of the laser system into the footswitch connector port, circled in the figure to the right. Pairing is not needed with the wired footswitch.



Laser Operation

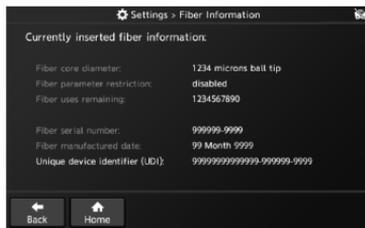
Connect the laser fiber

- The laser fiber is connected to the laser system through a customized fiber connector. The laser will only emit laser energy if the system detects a valid laser fiber.
- The optical fiber port on the front of the laser system senses the presence of a laser fiber and will automatically open when the laser fiber connector is brought into close range.
- Once the door opens, insert the sterile surgical fiber by advancing the fiber connector straight into the port. Once inserted, surgical fibers are automatically detected by the system. Fibers do not need to be screwed into the port.



View fiber information

- The Fiber Information panel appears by pressing on the Fiber Info area on the Settings screen.
- When viable surgical laser fibers are inserted into the laser port, the system will detect the following information:
 - Fiber type
 - Fiber core diameter
 - Fiber uses remaining. Note: a fiber use is counted once laser energy is passed through the fiber.



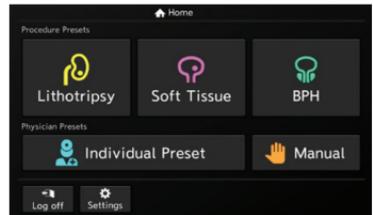
Adjust the aiming beam

- Select the aiming beam button on the treatment screen.
- The following screen allows the aiming beam intensity to be adjusted. The aiming beam provides three options: blinking emission, continuous emission, no emission.



Laser parameter adjustment

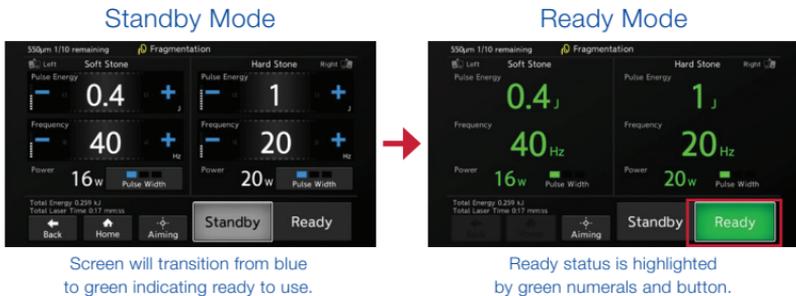
- Select the appropriate treatment, preset, or manual mode from on the Home Screen.
- Press the touch screen to adjust the parameters on a selected mode.
- Adjust the Pulse Energy or Frequency to match the desired clinical effect by sliding your finger over the parameter, tapping the +/- buttons, or holding down the +/- buttons.
- There are three options for Pulse Width: long, medium, or short. Select the desired Pulse Width by pressing the Pulse Width indicator button to toggle between settings.
- Select the Home button to choose a different treatment mode.



Laser Operation

Standby/Ready

- To enter Ready Mode from Standby Mode, press the Ready button on the Treatment Screen, or press the central button (Ready/Standby) on the footswitch.
- An audible tone will be heard when transitioning between Standby and Ready modes



Activating the laser

- Once the Ready button is pushed, there is a 2 second delay before the laser is ready to emit. The footswitch will activate emission.
- The left and right foot pedals coincide with the left and right sections of the treatment screen. Each foot pedal can have a different setting to customize laser performance.



Activating the laser (continued)

- Depress the appropriate footswitch to begin treatment.
- The emission screen is presented in yellow. The screen display will indicate the footswitch in use, with the footswitch indicator symbol showing the inactive footswitch as a darkened image.



Left pedal emission



Right pedal emission

Saving settings

- Set up customized treatment parameters by tapping Individual Preset on the home screen.
- Begin by selecting Physician Name. Preset treatment parameters can be saved under each physician's name. A maximum of 20 presets may be saved under each physician's name.
- Select the User Preset to change treatment parameters for the desired Preset.
- Alternatively, to add a new Preset or make changes to an existing Preset, select Add / Edit Preset in Settings.
- Up to 60 physicians may be stored in the system. A total of 100 presets may be stored in the system.



Laser Operation

Manual mode

- Selecting the Manual button on the home screen allows the user to go directly to the Treatment Screen to manually establish unique treatment parameters, rather than selecting one of the preset treatment parameters.
- Manual mode will default to the following parameters on both the right and left pedals: Energy 0.2 J; Frequency 100 Hz; Pulse Width short.
- Once adjusted, the settings can be saved.

View/export laser operation or laser therapy information

- Press the Settings button on the Treatment Screen to enter the Settings screen; then press Treatment Logs to enter the Treatments Logs screen.



- Insert a USB memory stick into an available USB port on the rear of the laser system (circled below). Tap Export Logs to save files to an external drive.



Other Important Features

- The blast shield must be properly installed for the laser to operate. Each laser system will come with a blast shield installed and two replacement blast shields included in the box. Inspect the blast shield annually and replace if necessary. Reference the User Manual for instructions on blast shield replacement.
- An operating door interlock connector is provided with each laser system. This must be setup only by Olympus authorized technicians.

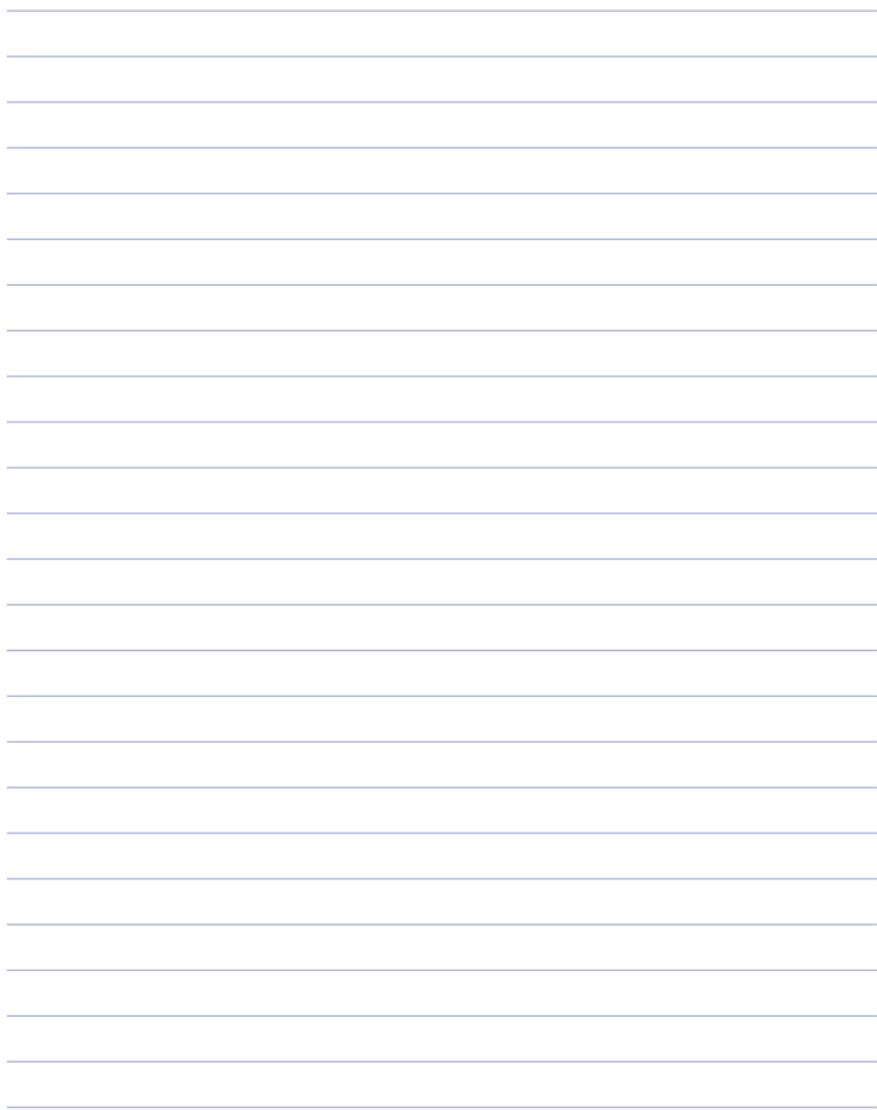
Laser fiber selection guide

Part Number	Fiber Size			Maximum Average Power setting (Watts)*
	µm (Core)	µm (OD)	French (OD)	
TFL-FBX150BS TFL-FBX150S	150	315	0.94	25
TFL-FBX200BS TFL-FBX200S	200	400	1.20	60
TFL-FBX365S	365	600	1.80	60
TFL-FBX550S	550	800	2.40	60
TFL-FBX940S	940	1500	4.50	60

*Fibers used with the SOLTIVE Pro Laser System are restricted to 35W maximum.

DEFINITIONS

- Hertz (Hz): Frequency or number of pulses per second.
- Joules (J): A unit of energy, representative of the intensity with which each laser pulse hits the stone.
- A unit of power (Watts, W) is calculated as energy (joules) multiplied by frequency (hertz).



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OLYMPUS AMERICA INC.
3500 Corporate Parkway, PO BOX 610,
Center Valley, PA 18034

For more information, contact your Olympus
sales representative, or call 800-848-9024.
www.medical.olympusamerica.com

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