4 OPTIMIS FUSION LASER DESCRIPTION

4.1 GENERAL DESCRIPTION

4.2 CONTROL MODULE LCD SCREEN
3.3 OPTIMIS FUSION START UP AUTOMATIC PROCEDURE

Once the keywitch is turned on to the YAG or SLT position: the corresponding OPTIMIS FUSION welcome screen with software version and functioning mode (YAG or SLT) information is displayed on the laser interface screen.

**NOTE**

In YAG mode, the screen color background is blue, whereas in SLT mode, it is green as shown below:

![YAG Welcome screen](image1)

![SLT Welcome screen](image2)

Then, the system performs a sequence of selftests and an initialization procedure. When this is finished: the YAG or SLT treatment screen is displayed with the STANDBY green led turned on by default:

![LCD screen display after self tests](image3)

**STANDBY status:** the STANDBY green led is turned on by default.

The slit lamp is activated and the red laser aiming beam(s) of the selected YAG or SLT laser system is turned on.
4 USING THE OPTIMIS FUSION YAG LASER FEATURES

Turn the key to the “YAG” position and wait until the self-test and initialization procedure is finished to finally display the OPTIMIS FUSION YAG treatment screen on the control module LCD screen (blue color).

4.1 AVAILABLE SETTINGS ON THE LCD CONTROL MODULE WITH YAG MODE

In YAG mode: all four buttons (illuminated in blue) are active and can be adjusted.

**NOTE**
By default:
- The energy is adjusted to 1mJ
- The focus is set to 0 (=30µm offset)
- Burst mode is set to 1 pulse
- Counter count is rest to 0

4.1.1 NUMBER OF PULSES SELECTION (BURST MODE BUTTON)

Press the BURST MODE button on the control module LCD screen as many times as required to increase the number of pulses from one pulse to two pulses and then 3 pulses.

**NOTE**
Pressing one more time on the BURST MODE button allows the user to return to one pulse per burst.
### 4.1.2  FOCUS OFFSET SELECTION (FOCUS OFFSET BUTTON)
Press the FOCUS OFFSET button on the control module LCD screen as many times as required to set the focus offset to “0” (=30µm offset), then to “Post.” (+150µm offset), then to “Ant.” (= -150µm offset).

**WARNING**
When the offset “Ant.” (= -150µm offset) is selected: the background LCD screen is changing color and 3 long beeps can be heard to warn the user that the focus is in the anterior chamber.

**NOTE**
Pressing one more time on the FOCUS OFFSET button allows the user to return to “0” (=30µm offset).

### 4.1.3  RESET COUNTER BUTTON
The OPTIMIS FUSION software displays on the control module LCD screen how many shots have been performed since the laser counter reset. To reset the counter to zero: press on the RESET COUNTER button.

### 4.1.4  STANDBY / READY STATUS BUTTON
Press on the STANDBY / READY button to switch the laser from STANDBY to READY mode. The green LED switches OFF and the yellow LED switches ON:

<table>
<thead>
<tr>
<th>Laser state</th>
<th>LED State</th>
</tr>
</thead>
<tbody>
<tr>
<td>STANDBY (Default Mode)</td>
<td><img src="#" alt="Image" /></td>
</tr>
<tr>
<td>READY</td>
<td><img src="#" alt="Image" /></td>
</tr>
</tbody>
</table>

In READY mode, the OPTIMIS FUSION laser is ready to shoot.

**NOTE**
- If the user presses the STANDBY/READY button again: the OPTIMIS FUSION laser goes back to STANDBY mode.
- The OPTIMIS FUSION laser goes back to STANDBY mode after 3 minutes of inactivity (a long beep is emitted). When this happens: the YAG mode parameters return to their default value (Energy=1mJ, Focus offset=0 and Single pulse)
5 USING THE OPTIMIS FUSION SLT LASER FEATURES

Turn the key to the “SLT” position and wait until the self-test and initialization procedure is finished to finally display the OPTIMIS FUSION SLT treatment screen on the control module LCD screen (green color).

5.1 AVAILABLE SETTINGS ON THE CONTROL MODULE WITH SLT MODE

In SLT mode: only two buttons (illuminated in blue) are active and can be adjusted: STANDBY/READY button and RESET COUNTER button. The other two buttons are unactivated.

NOTE
By default:
- The energy is adjusted to 0,6mJ
- Counter count is rest to 0

- The OPTIMIS FUSION laser goes back to STANDBY mode after 3 minutes of inactivity (a long beep is emitted). When this happens: the SLT mode Energy parameter returns to its default value (Energy=0,6mJ)