



# QUICK START GUIDE



# optimis FUSION



## SLT MODE



Total energy

Total pulses

Standby/Ready

Counter reset

## YAG MODE



Total energy

Total pulses

Focus Offset

-150µm,  
+30µm,  
+150µm,

Pulse number

1,  
2 or 3  
pulses

Standby/Ready

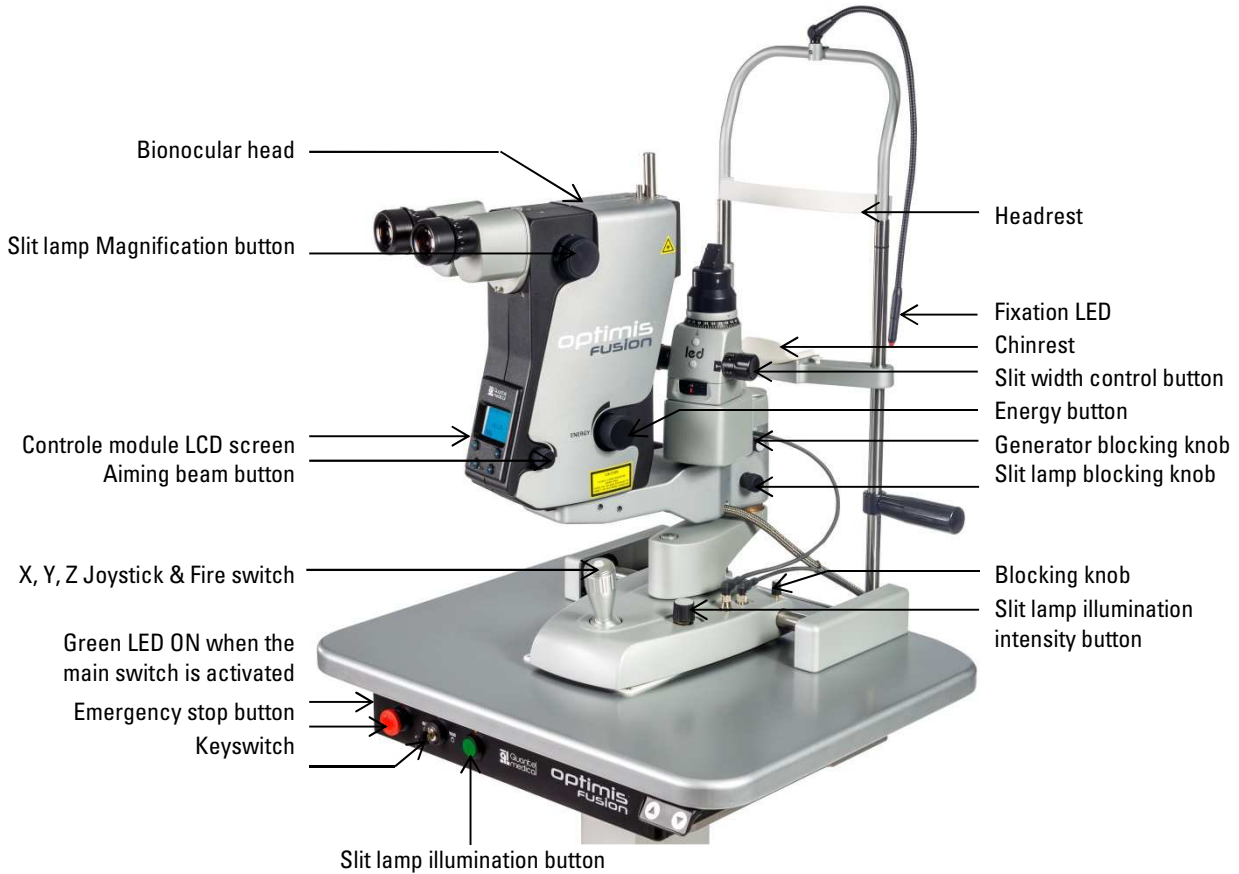
Counter reset



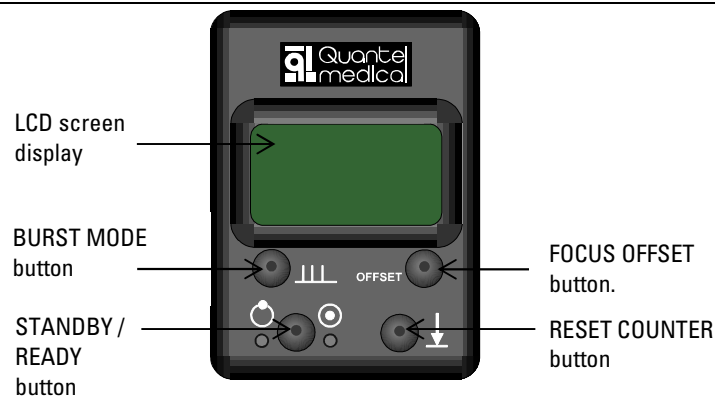
Refer to the user manual of **Optimis Fusion** for detailed information about the use and the safety measures.

## 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 keyswitch 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:

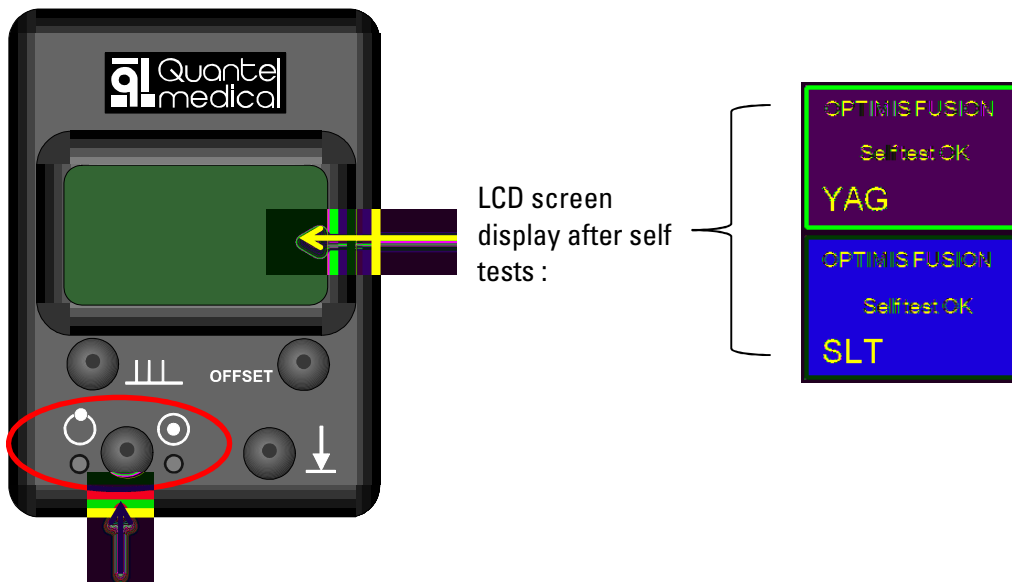


YAG Welcome screen



SLT Welcome screen

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:



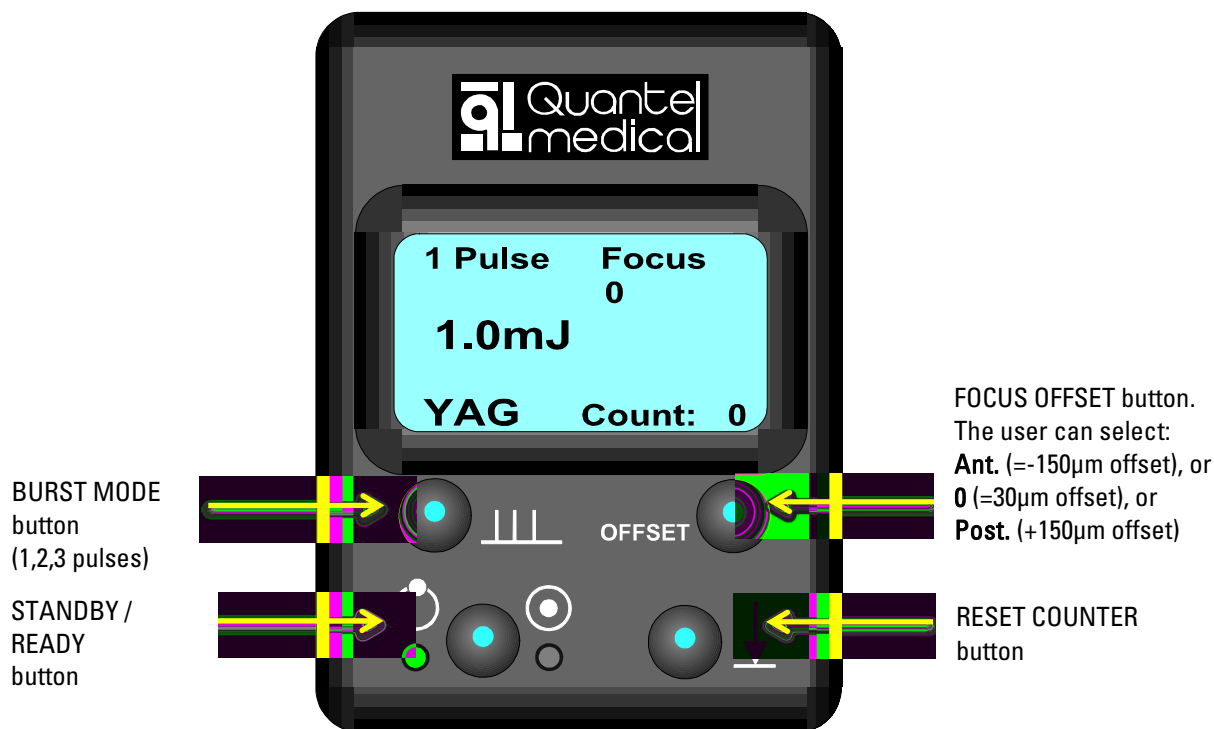
STANDBY status: the STANDBY green led is turned on by default.

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



YAG treatment screen

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

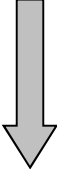
The OPTIMIS FUSION software displays on the control module LCD screen how many shots have been performed since the laser counter reset.

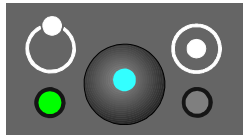
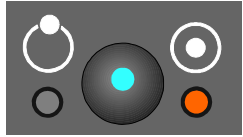
To reset the counter to zero: press on the RESET COUNTER button.

#### 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:

Press the "Stand-by / Ready" state selection button



Laser state	LED State
STANDBY mode (Default Mode)	
READY Mode	

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



*SLT treatment screen*

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)

### 3 TROUBLESHOOTING

In case of any problem during installation or operation of the system, the following troubleshooting guide may be of assistance:

*Table 4-1: Troubleshooting table*

Fault	Probable cause	Action required
<p><b>YAG</b> Warning Joystick</p>	<p><b>SLT</b> Warning Joystick</p>	<p>The Joystick is pressed whereas the laser is in STANDBY status.</p> <p>Select READY status before using the Joystick.</p>
<p><b>YAG</b> Move Light Tower</p>	<p>Treatment beam path obstructed by the illumination tower.</p>	<p>Rotate the illumination tower out of the treatment beam path.</p>