## Start Up

1. Install the lamp module (see side 2).
2. Plug the unit into a properly grounded AC outlet.
3. Turn on the Power switch at the front of the unit.
4. The lamp will automatically strike when power is turned on to the unit. The **LAMP** indicator will be illuminated.
5. Allow the lamp to warm up (Excelitas recommends 20 Minutes of proper warm-up to ensure stable optical output). During the warm up period the LED display and indicators will flash. **THE LAMP MUST BE ALLOWED TO WARM-UP UNINTERRUPTED.**

## Installing the Light Guide

1. Remove the protective end caps from the light guide
2. Insert the light guide into the light guide port on the front panel until it seats with a positive click.

**Note**: When the power is turned on and the light guide is properly installed, the light guide LED will be green.

## Setting the Display Mode

The OmniCure® S1500 will display 3 modes: Timer Mode, Level Mode and Lamp Hour Mode.

1. When the display is in **Timer Mode**, the front panel "TIMER" LED is illuminated. The number shown will indicate the exposure time in seconds and tenth of seconds **(XXX.X)**
2. When the display is in **Level Mode**, the front panel "LEVEL" LED is illuminated. The OmniCure® S1500 system can operate in two different output intensity modes: **Absolute** or **Relative**.

    **Absolute Mode:** refers to the condition when the S1500 has been calibrated. The display **(XX.XX)** will show an absolute value of irradiance in W/cm$^2$ and the "CAL" LED is ON.
    **Relative Mode:** refers to the condition when S1500 has not been calibrated. The display **(XXX)** will show the percentage of maximum iris position and the "CAL" LED is OFF.

3. When the display is in **Lamp Hour Mode**, the front panel "L.HRS" LED is illuminated. This shows the accumulated number of hours the lamp has been on. **(XXXX.)**
4. Press the front panel **MODE** button to cycle through the display modes.

## Setting the Exposure Time

1. Set the system to Timer Mode **(XXX.X)** by pressing the Mode button.

2. Press the **UP** or **DOWN** button to increase or decrease the exposure time by 1/10s
3. For coarse adjustments, press and hold the **UP** or **DOWN** button to rapidly increase or decrease the exposure time.

## Setting the Intensity Level

1. Set your OmniCure® S1500 to Level Mode **(XXX)** by pressing the Mode button.
2. **Press the START /STOP button to open the shutter**. The OPEN indicator will illuminate. *Warning: UV light and high levels of visible light will be emitted from the end of the light guide!*
3. Press the **UP** or **DOWN** button to increase or decrease the light output.
4. In **Relative Mode**, the % iris opening displayed will increase or decrease by 1 for each time the **UP** or **DOWN** button is pressed.
5. In **Absolute Mode**, the irradiance level displayed will increase or decrease by 10mW/cm$^2$ for each time the **UP** or **DOWN** button is pressed.

*Note: The S1500 must be calibrated to operate in **Absolute Mode**.*

6. For coarse adjustments, press and hold the **UP** or **DOWN** button to rapidly increase or decrease the light output.
7. Press the **START /STOP** button to close the shutter. The OPEN indicator will turn off.

## Running a Timed Exposure:

1. Set the system to Timer Mode **(XXX.X)**.
2. Press the **START /STOP** button. The shutter will open and the exposure time will begin to count down. When the exposure time has elapsed to zero, the shutter will close.

## Running an Exposure with No Timer:

1. Set the system to Intensity Mode **(XXX)**.
2. Press the **START /STOP** button. The shutter will open. The shutter will remain open until the **START /STOP** is pressed again.

## Using the Foot pedal / Remote Device (Rear Panel: 3.5mm Jack)

Depressing the foot pedal, or providing a momentary contact closure, provides the same function as pressing the **START/STOP** button. The shutter opens as per the current mode (Intensity or Timer) of the unit.

**WARNING:** *Never look at operating Lamp! The light could severely damage the cornea and retina of the eye if the light is observed directly. Eye shielding must be used at all times as well as clothing to protect exposed skin*
*Refer to user guide for more details.*

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## Installing the Lamp Module

The OmniCure® S1500 curing system is available configured in two different versions. One version is for standard curing and one version is for surface curing. The appropriate type of lamp must be installed depending on which configuration your S1500 is set.
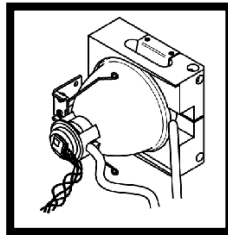
1. Be sure the AC power cord is disconnected from the unit.
2. Remove the screw from the lamp access side panel using the tool provided and remove the panel from the unit cover.
3. Carefully remove the lamp module from its container, holding <u>only</u> the ceramic component and glass rim
4. As illustrated to the right, position the lamp facing towards the front of the unit with the power leads facing towards you.
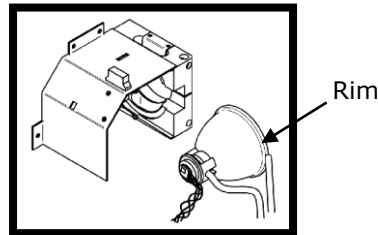
*Caution: Do not touch the bulb's glass envelope or the inside surface of the reflector. Skin oils can cause the lamp module to fail prematurely.*

Rim

5. Make sure the middle of the lamp is in position to fit into the spring clamp. Slide the lamp until it snaps into the spring clamp. The leading edge of the reflector should fit snugly into the lamp
6. Locate the 4-pin Intelli-Lamp sensor connector at the rear of the lamp module and connect it to its mate located on the top of the lamp-housing wall.
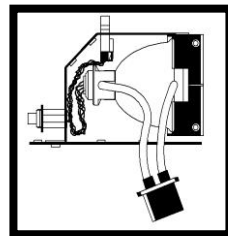
*Tip: the Intelli-lamp connector will only attach in the correct orientation. If you are having difficulty attaching the connector, try rotating it by 180°.*

7. Locate the Power connector with two leads and connect it to its mate located on the bottom of the lamp-housing wall.

*Tip: the Lamp Power connector will only attach in the correct orientation. If you are having difficulty inserting the connector, try rotating it by 180°.*

8. ***It is very important to ensure that the lamp anode cooling fin (bar) and lamp power lead, at the front of the lamp are centered within the lamp holder cutout. Rotate the lamp as required.***
9. Replace the lamp housing side panel and tighten the fastening screw.
   *Note 1: if the lamp housing panel is not secured completely, the lamp will not strike and the "**bulb**" message will display when power is turned on to the unit.*
   *Note 2: if the wrong type of lamp has been installed in your unit, the message "**E1**" will appear on the LED display.*

*Exposure to Mercury represents a health hazard to humans. When unpacking or installing the lamp, always wear protective clothing and a face mask.*

⚠

## REGULATORY (refer to user guide for complete details)

**Product Safety and Electromagnetic Compatibility**

The OmniCure S1500 has been tested and found to comply with product safety and electromagnetic compatibility requirements. For a complete list of tests and for certification details, please contact your OmniCure representative or visit: http://www.excelitas.com/Pages/Product/OmniCure.aspx

**CE Marking**

CE
- Council Directive 2014/35/EU     Low Voltage Directive
- Council Directive 2014/30/EU     EMC Directive
- Council Directive 2012/19/EU     WEEE Directive
- Council Directive 2011/65/EU     RoHS

| WEEE Directive | China RoHS | RoHS | FCC |
| --- | --- | --- | --- |