OVERVIEW

The UVST80-A Air-cooled LED tabletop curing unit (380-400nm) is fabricated by mounting SST's patented AS-LED modules directly onto a single extruded aluminum heat sink. The patented AS-LED modules utilize half-rod quartz lenses to minimize Total Internal Reflection (TIR) loss. The included Touch Screen Panel controls both the conveyor and the curing lamp.

COMPONENTS

- Electrical Control Box with AC cord
- 400W 3.5" LED Lamp
- 3 1/2" wide curing window
- 6" Wide Conveyor with speed range 14-115 fpm
- Touch Screen Panel
- Large 6 pin Conveyor Cable
- Large 5 pin Touch Screen Panel Cable
- Large 4 pin DC power Cable
- Small 4 pin Temperature Sensor/Fan Cable

ELECTRICAL REQUIREMENT

Single phase
~ 120 Volt, 3.9 Amps

WEIGHT AND DIMENSIONS

LED Lamp: 5 lbs,   304 L x 102 W x 89 H (mm)
Control box: 19 lbs 305 L x 102 W x 305 H (mm)
Conveyor: 29 lbs   610 L x 242 W x 242 H (mm)
Touch Panel: 5 lbs 267 L x 204 W x 77 H (mm)
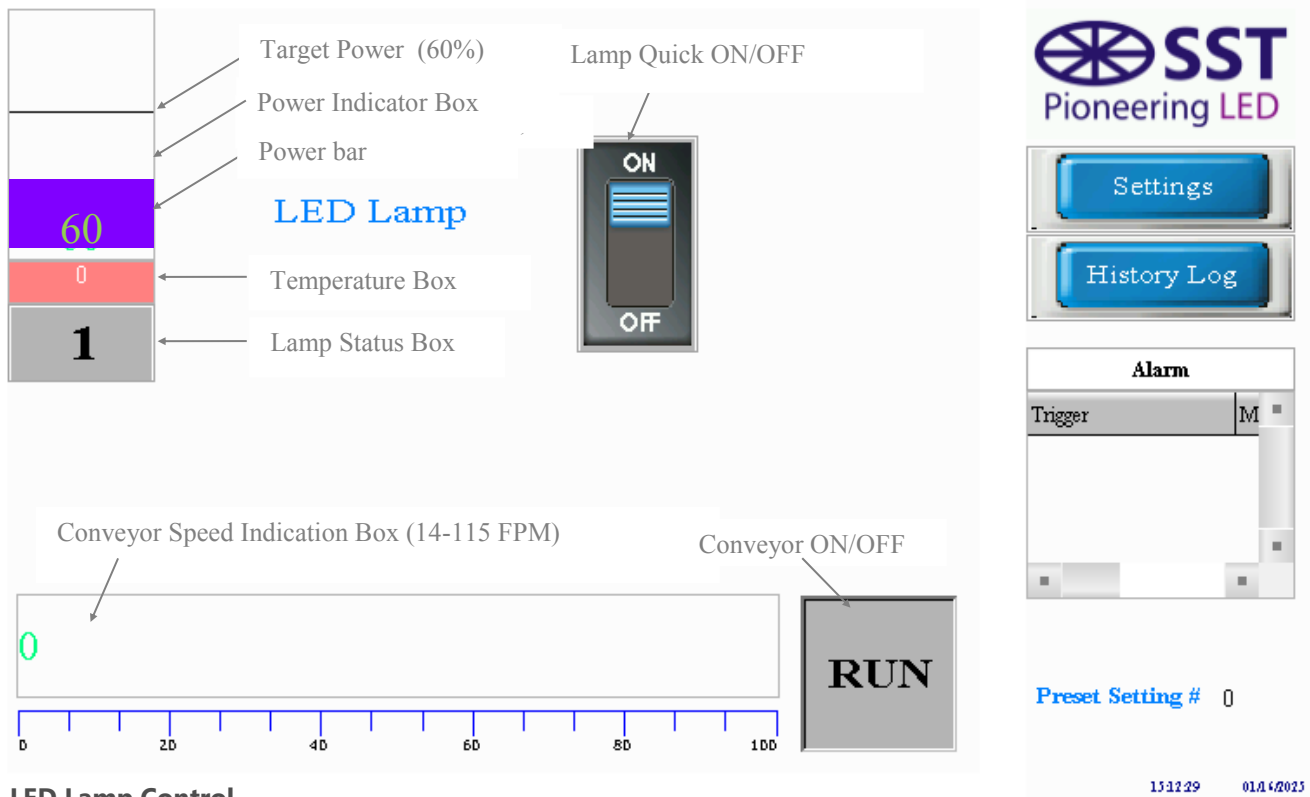

Indoor Use Only
Operating Temp: -5 to 30 degree C

TECHNICAL DATA

Emitting Window	89 X 75 mm
Input Power	460W
Dimming	10-100%

INSTALLATION INSTRUCTIONS

1. Connect the Large 4 pin DC Cable from the control box to the power socket on the LED lamp.
2. Connect the Small 4 pin Temperature Sensor Cable from the control box to the sensor socket on the lamp.
3. Connect the Large 5 pin Cable from the control box to the Touch Screen Panel.
4. Connect the Large 6 pin Cable from the control box to the conveyor.
5. After securing the LED lamp, plug in the control box.
6. Use the on/off toggle to turn on the touch screen panel and enable the LED lamp and the conveyor .
7. Use the Touch Screen Panel to control LED lamp and the conveyor
8. The recommended distance the lamp is mounted above the substrate is 6-12mm.

TOUCH SCREEN PANEL INSTRUCTION

Target Power (60%)
Power Indicator Box
Power bar

LED Lamp

Temperature Box
Lamp Status Box

Lamp Quick ON/OFF

Conveyor Speed Indication Box (14-115 FPM)

Conveyor ON/OFF

RUN

SST Pioneering LED

Settings

History Log

Alarm
Trigger M

Preset Setting # 0

1. LED Lamp Control
1.1 Touch anywhere on the Power Indicator Box and enter a new Target Power Value.
1.2 Touch the Lamp Status Box to enable the LED lamp.
Dark Gray: Lamp disable;
Yellow: Lamp enabled, Quick ON/OFF is off; **Light Gray:** Lamp enabled and Quick ON/OFF is on.
Green: Conveyor speed is between Web Speed Limit A (14 FPM)* and Web Speed Limit B (30FPM)*
Purple: Conveyor speed is over Web Speed limit B (30FPM)*
LED lamp only turn on when it is enable, Quick ON/OFF is on, and the Conveyer speed is over 14FPM.
1.3 Temperature box indicates whether LED lamp is within the normal operating temperature range.
Gray: Normal; **Light Red:** temperature rises above Temperature Limit A (60°C)*
Dark Red: temperature rises above Temperature Limit B (65°C)*

*Values can be set at "Settings" page, where you can also set Date and Time.

2. Conveyor Control
Touch the Run button to turn on the conveyor.
Touch anywhere on the Web Speed Slider to enter a speed value between 14 to 115.

3. Alarm Notification
Overheating: Lamp temperature over Temperature Limit A; Screen flash RED.
Overheating: Lamp Shuts off: Lamp temperature over Temperature Limit B; Screen flash RED, Lamp shuts off.
Fan Off: Lamp disconnected; Screen flash RED.
Conveyer not moving or not connected, Screen flash RED, Lamp shuts off.
Turn off the Quick ON/OFF switch or Stop the Conveyor to clear the corresponding alarm.

4. History Log
Values are recorded every time a setting on the main page is altered or whenever an alarm is triggered. Logged files can be saved to a USB drive.