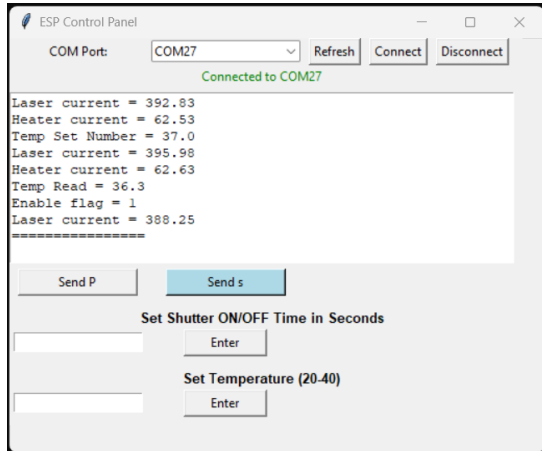

Operation Notes for PL530E32 Laser Module

(Rev. 2-26-26)

1. Refer to the included **Panel Layout** drawing for the operation functions.
2. Connect a USB type-C power cable to USB Type-C power Connector, or connect a +5VDC power supply to power jack P1, as shown on the Panel Layout.
3. Slide the ON/OFF switch (S1) to the ON position to power on the module. When the TTGO board screen displays “Temp = **Good**” with a blue background, press the Laser Enable switch (S2) to activate the laser output.
4. Press the pushbutton (S3) to toggle the shutter **Open / Close**.
5. The green laser beam will emit from the small window. **Do not look directly into the window while the power is on.**
6. The laser power can reach to over **50 mW** when shipped, but it may decrease over time.
7. To adjust the laser power output beyond the default settings, users can modify the laser and heater potentiometers. **Heater current significantly affects the power output.** The default settings are: laser current preset to **450 mA** (limited to **480 mA**), and heater current to **66 mA** approximately.
8. Refer to the “**Operation Procedures for Green SLM PL530 Laser Source Model: PL530E32**“, for complete operation instructions, including **Standalone, Serial Port, Wi-Fi Access Point** and **Bluetooth Control**.
9. The drawing below shows the module four control modes.

PL530E32 Four Control Modes

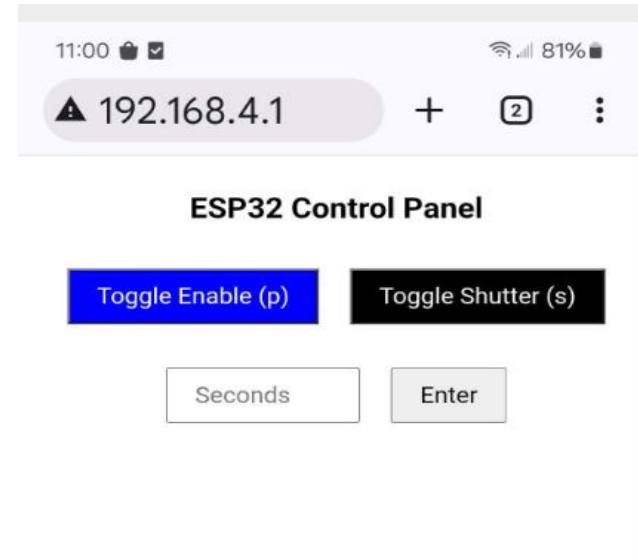


+5VDC Power Supply

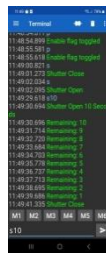


2. Serial Port Control

1. Standalone Control



3. Wi-Fi Access Point Control



4. Bluetooth Control Android Phone iPhone