Mono3 Printer

Mono3 (RGB) Printer
plexiglass cover — build platform — z stage motor — resin vat — touch display
Tool Type: 3D Printer
Location: Elings Hall 2436
Manufacturer: MonoPrinter

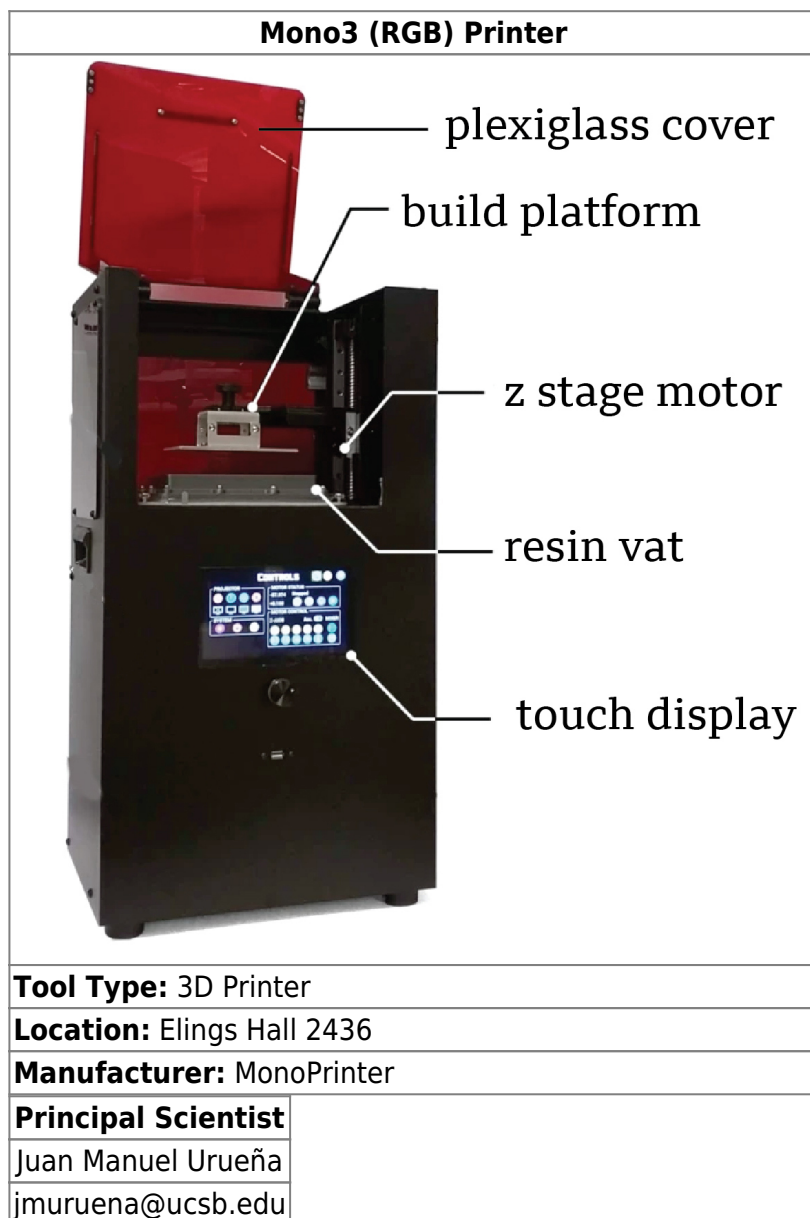| Principal Scientist |
| --- |
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About

Mono3 is a resin printer that uses a RGB set of LEDs 459, 520, and 617 nm to polymerize the resin. It uses a proprietary software called Monoware to slice your object and interface with the printer. On Monoware one can upload an STL file from any CAD software and adjust the settings so the software slices the part automatically.

Detailed Specifications

* **Print thecknology:** DLP * **Projected image:** 1280 x 800 px

* **Pixel resolution (XY):** 30 - 70 µm
* **Layer thickness:** 5 - 100 µm
* **wavelength:** 459, 520, and 617 nm
* **Power:** 10 - 30 mW/cm^2
* **Z-precision (motor-driven):** 5 µm
* **Heated Platform:** Max 37 ºC
* **Max build volume:** 134 X 76 X 125 mm (1.27 L)
* **Connectivity:** Wireless connectivity by Raspberry pi & USB

Safety Concerns

Read the manufactures manual before first use. If the Mono3 acts in a way that is not described by the manual, turn off the printer and contact Mono.

- Never place your finger near the machine until all parts have stopped moving. Moving parts can cause serious injury.
- Never clean or service the printer while it is on.
- The printer uses UV light for sterilization and curing. Never look directly at UV light nor expose skin. Serious injury may result from exposure.
- The printer has heated surfaces that can reach temperature up to 250 degrees Celsius. Never touch these surfaces when using the heating function. Allow things to cool before opening, touching the printer
- Always ensure that equipment is correctly mounted before use. Improperly mounted print beds, printheads, cartridges, calbes liquid spouts and air spouts can be dangerous. If any equipment appears damaged, turn off the printer, unplug all connections and contact the principal scientist.

Reference Documentation
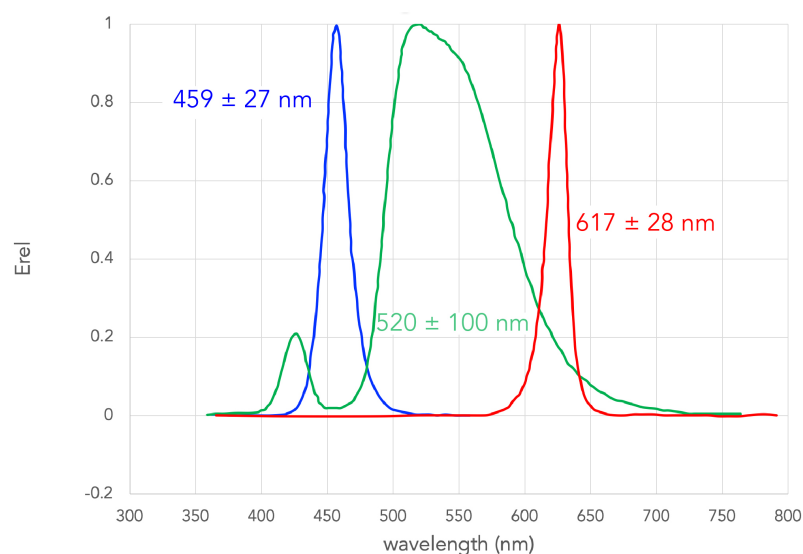
mono3manual.pdf

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