# Mono3 Printer

**Mono3 Printer**

flow meter
motor stage
motorized linear
Z-stage
Thorlabs NRT
build platform
holder
Ar
(5 psi)
SMaLL
build
platform
resin
tank
resin
tank
holder
lens
projector

**wavelength**
470 - 530 nm
**intensity**
## W/cm$^2$
**luinous flux**
2500 lumens
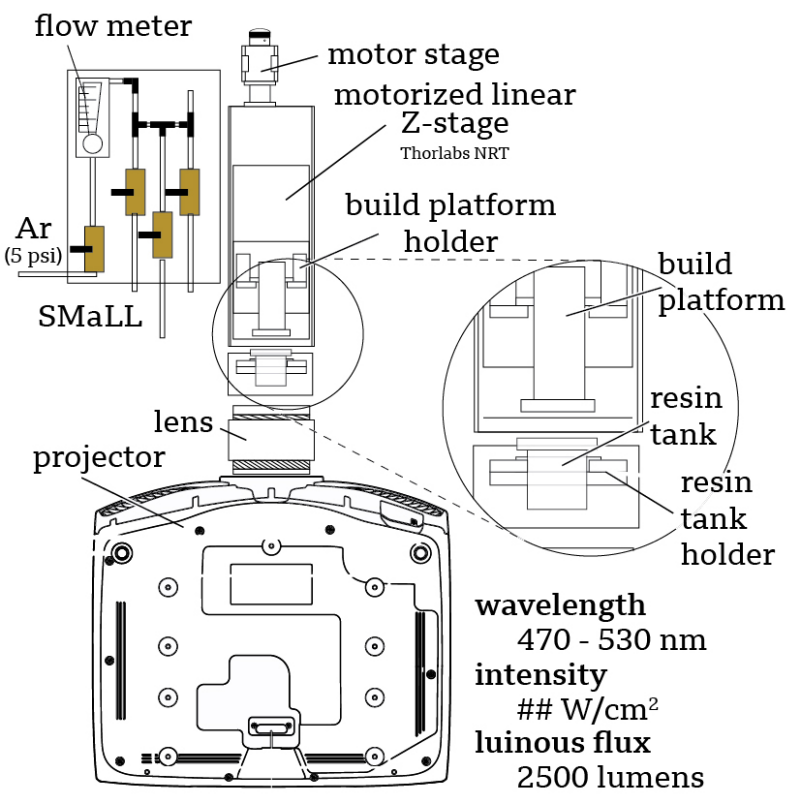
| | |
|---|---|
| **Tool Type:** "3D Printer" | |
| **Location:** "Elings Hall 2436" | |
| **Supervisor** | **Tool Lead** |
| Juan Manuel Urueña | "WW Name" |
| jmuruena@ucsb.edu | "WW Email" |
| **Description:** "Mono3 3D Printer" | |
| **Manufacturer:** "Mono" | |

# About

Mono3 is a resin printer that uses a385 or 405 nm LED projector 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

* wavelength: 380 - 740 nm

* luminous flux: 2,500 lumens
* Projector: Epson PowerLite Home Cinema 5040UB
* 1080p native resolution with 4K Enhancement

# Safety Concerns

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

- 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. Imporperly 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 CELLINK.

# Operating Procedures

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# Reference Documentation

creationworkshop.pdf

small_projector_manual.pdf

# Training Documentation

biox_manual.pdf

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