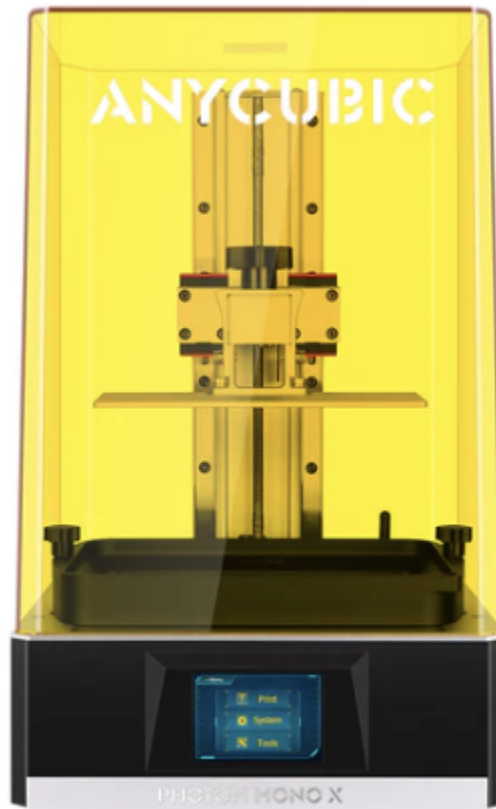


PHOTON MONO X



Specifications

- **Brand/Model:** Creality/ Photon Mono X
- **Technique:** LCD Shadow Masking
- **Light source:** UV-LED(wavelength 405nm)
- **Work Area**
 - Dimensions: 270mm(L) x 290mm(W) x 475mm(H)
 - Build volume: 192mm(L) x 120mm(W) x 50mm(H)
- **Resolution:**
 - XY: 0.05mm 3840*2400(4K)
 - Z axis accuracy: 0.01 mm
- **Optimal Working Temperature:** 24C [Check]

Materials needed for operation:

- 405nm UV-resin. Resin types for the Photon Mono X and printing parameters can be found:https://store.anycubic.com/blogs/news/resin-settings-for-anycubic-3d-printers?srsltid=AfmBOoo1EzQdeN-s_7_FxLSeghJwu5SCRzCA3sgt_XB7r4Y5dTT5Jfo
- Isopropyl alcohol (>90%).
- Airtight containers for washing.
- Spatulas, forceps, cutting tools.
- Funnel
- Cleaning wipes
- Colanders

Personal Protective Equipment

- Goggles
- Gloves
- Respirator
- Apron

Operation sequence

- Raise built area and allow for resin to drain.
- Remove cover from the printer
- Unlock the build area platform and remove with care.
- Pry print object from the build area with care[Check with MPI]
- Replace cover and build platform to the printer.
- Perform an initial wash to remove the excess of resin and include tools used to pry open the print model.
- Open the Anycubic wash container and place the model print and tools.
- Close the lid of the wash container and set the washing clock.
- Once time is over unlock the washer, take out the print and other materials and let them dry. Replace the cover of the washer so the isopropyl won't evaporate.
- Once dry, place in the curing machine and place the UV protection cover.
- Set the timer and wait until the print model is cured.

Operation Precautions (People):

- Be aware that many resins are toxic.
- UV exposure can be harmful to skin and eyes.
- Be also aware that isopropyl alcohol is highly flammable and take appropriate precautions.
- Prior to operating the machine read the safety data sheet for the resin to be used and be aware of what are the procedures if you were exposed to them.
- Warn someone that you will be working with this resin 3D printer.
- Make sure that the area of work is well ventilated.
- Wear personal protective equipment described above at all times.
- Operate machines with lids closed.
- Make sure you close the lids of all containers you open after their use.
- Ask the lab manager if you have any doubts.

Operation Precautions (Machines):

- Clean equipment and machines if they are contaminated with resin.
- Replace the printer resin container if you find a leak.
- Remove resin from the printer container if you will not print anything else in the next 48 hours.
- Dispose of residues appropriately, do not flush them down the sink.
- Clean the work area.