

# Elegoo Mars

The Elegoo Mars is an SLA Printer which prints from a vat of liquid resin versus using a hot end and plastic filament.

Thank you to Elegoo for donating our cool new Mars printer.

This is the printer we are using - <https://amzn.to/3fcxhUr>

YouTube video for how to use is here:

Elegoo has a couple other NEW models that are really cool:

It works out like this:

- Mars - Standard version with color screen - <https://amzn.to/38CQIEb> or at <https://elegoo.com/mars> - 4.72\*2.68\*6.1 inches
- Mars Pro - Pro version of the color screen - <https://amzn.to/3cwXDA7> or at <https://elegoo.com/marspro> - 4.53in (L) \* 2.56in (W) \* 5.9in (H)
- **Mars 2 - Standard version Monochrome screen** - <https://amzn.to/2NebliA> or at <https://elegoo.com/mars2> - 5.08in(L)\*3.15in(W)\*5.90in(H) - Current favorite. Ask JC why not to get the Pro
- Mars 2 Pro - Pro version of the Monochrome screen - <https://amzn.to/2OmKW2S> or at <https://elegoo.com/mars2pro> - 5.08in(L)\*3.15in(W)\*6.30in (H)
- And the MEGA SLA printer, the SATURN - <https://elegoo.com>

Some of the basic Items you will need for using the Elegoo Mars

- Resin - Comes in three types
  - ABS Like
    - <https://amzn.to/35tfu7c> - Elegoo - Lots of colors
    - <https://amzn.to/3gTSsvw> - Siraya Tech - Tenacious - Add about 15% of this to your other resin to make it really strong
    - <https://amzn.to/3gMvmXm> - Siraya Tech - Fast - a fast curing resin with ABS like properties
  - New Plant Based Resin - (??? for those who like to eat their resin? NO NO NO, Don't do that!!)
  - <https://amzn.to/3B3Lqy5> - Elegoo - Black, Translucent, Clear Green, White
  - Standard
    - <https://amzn.to/2YskHuu> - Elegoo - Lots of Colors
    - <https://amzn.to/31jT32V> - ANYCUBIC
  - Water Washable
    - <https://amzn.to/35o5Anf> - Elegoo - A Few Colors
  - High Resolution
    - <https://amzn.to/2zKrHtC> - Siraya Tech - Blu - High resolution transparent blue color - Needs a higher ambient temperature 77° or higher.
    - <https://amzn.to/3cnkuiD> - ANYCUBIC High Precision Resin - Gray
    - <https://amzn.to/3tSHj3G> - ANYCUBIC High Precision Resin - Green
  - Jewelry Casting - These will burnout and leave no ash.
    - <https://powerresins.com/> - Burn
- Washing
  - 99% Isopropyl Alcohol - <https://amzn.to/3gJqlc5>
- Filters and Funnel
  - To get the resin back in the bottle
  - <https://amzn.to/3d9B4zY>
- Resin Tank
  - It's easiest if you have your own tank(s) You simply close them up and swap them out.
  - Two Pack of Resin Tanks - <https://amzn.to/2YpOxj3>
  - Two pack in Gray and Black - <https://amzn.to/3tawKZk>
- FEP Film Sheets
  - This is the clear plastic on the bottom of the tanks, they do wear out or get scratched and need to be replaced.
  - FEP Sheets, Pack of 5 - <https://amzn.to/3bXUFTK>
- Build Plate
  - It's nice to have your own, so you can just swap and go if there is a print waiting for someone to take it off.
  - Build Plate - <https://amzn.to/2VTWCLo>
- Standard set of tools for 3D prints
  - precision wire cutters - <https://amzn.to/2ycxcQa>
    - or narrow tip type - <https://amzn.to/2KRDwz5>
  - scraper - <https://amzn.to/3aZMhlc>
    - or razor blade since it's a solid metal bed - <https://amzn.to/35tfap0>
  - USB Drive - MicroCenter in Fairfax
- Some tips from Anthony Lesnik
  - UV Curing - Small nail hardening station - <https://amzn.to/2C6Trst>
  - Ultrasonic cleaning - Put water in the unit, Put a small zip-lock bag of alcohol with your part in it. Put the zip lock in the unit. - <https://amzn.to/3iTQE6B>