Muse Titan v2 Quick-Start Guide

A. Setting up your Muse Titan

The Muse Titan weighs over 170lbs so make sure you have a lifting partner when setting up. Lifting straps are provided in the packaging.

Set it up on a sturdy surface of the appropriate size and weight to handle the Titan and it's accessories.

On the rear of the machine, install the ducting collar with the provided flange bolts. Secure one end of the ducting to the collar and lead the other to your choice of ventilation.

Get the air compressor and it's tubing, connect the tube to the inlet on the rear of the Titan and the other to the outlet on the compressor.

Using the internal water chiller:
Before powering on the Titan, open the black cap on the front right panel below the touchscreen. Then just fill the reservoir on the front right panel with about 1L of distilled water.

If you ordered an external water chiller:
Your Titan will be rerouted to use this instead, so set up the chiller along with your accessories. Use the provided silicone tubing to connect the chiller's water outlet to the Titan's inlet. Similarly set up the Titan's outlet to the chiller's inlet.

Opening up the Titan's lid you'll see zip ties holding the X-Axis gantry and laser head in place for shipping. Carefully cut those and remove the plastic.

Now connect the power cable to the outlet on the rear of the machine and start up your laser.

B. Connecting to the Laser

You can connect to your laser in 3 different ways.

Wi-Fi Connection
Connect the Wi-Fi USB Adapter to the USB port on the right side of your machine. From the touchscreen navigate to the network menu and look for your Wi-Fi. Follow the prompts to connect.
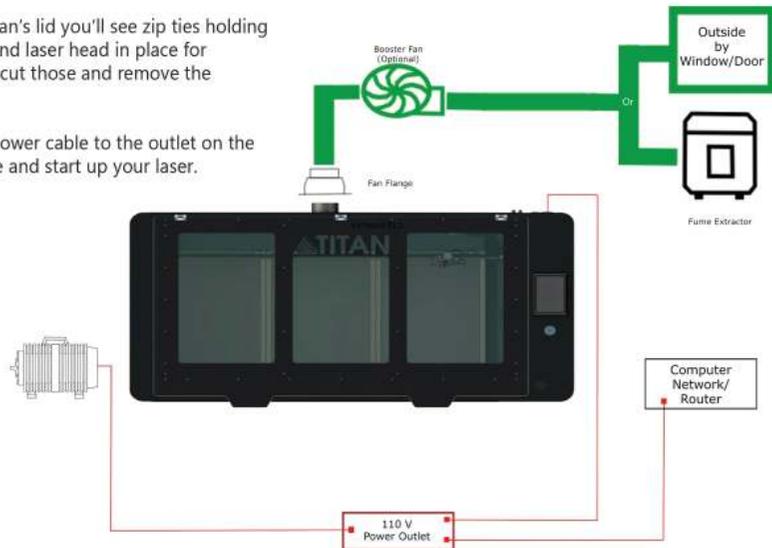
Networked Ethernet
Connect the Ethernet cable to the back of your router/modem. If it isn't near your laser workspace you may want to obtain an ethernet cable of appropriate length. Connect the other end to the ethernet port on the right of the backside of your machine.

Direct Connect Ethernet
Connect the Ethernet cable to the port on the right side of the machine. Connect the other end to the ethernet port on your computer. Some computers may require an Ethernet to USB adapter.

Once you've chosen how to connect go to the touchscreen on your laser. At the top will be a blue bar with your network type and then an IP Address (ex: 000.000.0.00). Open a browser and input that in the URL bar. You can now access RE3 to control your laser.

Booster Fan (Optional)

Outside by Window/Door

Or

Fan Flange

Fume Extractor

Computer Network/ Router

110 V Power Outlet

C. Starting your First Project

You can use RE3 in combination with a number of design programs or files to achieve the outcome you want. Here are a few things to keep in mind:

1. What material do you want to use?
The material you choose can determine the types of projects you can do. Some are best for engraving and some will cut better than they engrave. Always test your materials before starting and keep a log of your favorite settings.

2. What design are you using?
Are you going to buy a pattern? Get a free blueprint? Or use 3rd party design software to make your own? Consider how your design works with your material and the time put into sourcing one.

3. Raster or Vector?
The two main modes we consider when using a laser. Generally raster will engrave while vectors will cut. Some projects will use a combination or you may need to convert from one to the other.

4. Is everything lined up?
Have you checked your beam alignment? Have you used the Camera Capture and/or Run Perimeter feature to place your design?

D. Accessories & Upgrades

The Muse Titan has the following accessories available for purchase:

Refrigerated Water Chiller	3D Camera
Radiator Water Chiller	Time of Flight Camera
Air Compressor	Fume Extractor
Exhaust Fan	Friction Rotary

The Muse Titan is also compatible with these options:

Lenses:		Laser Tubes:	
1.5" Lens		75 Watt	
2.0" Lens		90 Watt	
2.5" Lens		100 Watt	
5.0" Lens			

Safety Guidelines

The following safety guidelines are meant to highlight the most common safety violations. Use of controls or procedures other than those specified may result in hazardous radiation exposure, fires, or electric shock. Please see your laser's manual for a complete listing of safety protocol.

⚠ General Safety

- **Never** leave laser unattended while running.
- **Always** keep machine on a clean, level, and open workspace free of clutter; that is classified to hold its weight.

🔥 Fire Safety

- **Keep** laser system and workspace clear and clean of debris.
- **Make sure** you have a 5lb or larger fire extinguisher outside of risk area. Full Spectrum Laser recommends Halotron extinguishers for ease of cleanup. Dry chemical extinguishers are also effective.
- **Keep** a first aid kit outside of risk area designed for burn and smoke inhalation treatment.

☀ Laser Safety

- **Never** cut unknown material, always check MSDS for any hazards.
- **Always** have proper ventilation and exhaust.
- **Do not** look directly into the beam.
- **Be aware** that modification or disassembly can expose a Class 4 laser system or high voltages which can increase the risk of harm or fire.

⚡ Electrical Safety

- **Power Cut Off** can be controlled from the switch at the back of the machine. To power on press the (-) side down. To power off press the (o) side down. You can also unplug the machine from either the rear or it's outlet.
- **Do not** make or break any electrical connections while the unit is powered on.
- **Do not** access or tamper with any electronics unless specifically directed to by support.

For Complete Manual go to: fslaser.com/resources/