CO2 Flatbed Quick-Start Guide

A. Machine Assembly

The CO2 Flatbed comes with: an Exhaust Fan, ducting, an air compressor, a flash drive, a 2.5 " lens, an air assist cone, power, ethernet, and usb cables, as well as some tools.
Check your manual for the full list.

Moving the unit requires a forklift as the laser system is over 2,700lbs.

1. Level Machine. Place the CO2 Flatbed unit in an empty area making sure the machine is level before removing the fortlift.

2. Install Laser Tube.
Refer to Manual

3. Connect Exhaust. Attach the ducting collar using the flange bolts. Secure one of the ducting tubes to the collar and the exhaust fan, while the other is secured from the exhaust fan to your choice of ventilation.

4. Connect Water Chiller. Attach each of the water hoses to the water in and out cones on the Chiller. Connect the tubing to the CO2 Flatbed (**In to Out, Out to In).** Fill the Chiller with 2.5 gallon of Distilled Water. It's recommended to run the water for a minute before starting the machine to remove air bubbles.

5. Connect Air Compressor. Attach the air tubing to the air out hose on the Air Compressor and to the Air Control on the CO2 Flatbed.

6. Connect the power cable.

7. Power on machine.

Weight: 2,700 lbs
Software: RDWorks
Power Supply: 110V AC
Work Area: 98.42" x 51.18"
Machine Dimensions: 118" x 63" x 39"

B. Software Installation

The CO2 Flatbed comes with a USB containing the machines software.

1. Power on Machine. Ensure machine is on before starting.

2. Plug in Flashdrive. Plug in the provided **Flash Drive** into the **Computer**.

3. Plug Computer to CO2 Flatbed. Plug in the provided USB Cord into Computer and connect the other end to the CO2 Flatbed.

4. Download RDWorks. Locate the RDWorks setup.exe and select it. Install the RDWorks software and Drivers.

You can now open the RDWorks software.

C. Starting your First Project

Here are things to keep in mind when running your first project.

1. What material do you want to use?
The material chosen will determine the types of projects one can do. Some materials cannot be cut with this machine.
Refer to manual for list of useable materials

2. What type of design will you use?
With the material chosen, you can start thinking about the design. Keep in mind that your design might need to be adjusted to get the best result.

3. Align your material for engraving.
The Muse has a perimeter tool that can be used to center your engraving on your material. Keep in mind what image you are using when centering.

4. Raster or Vector?
Adjusting the raster and vector properties will depend on the type of image selected and the type of marking you're trying to get. Text and lined images are better as vectors, while pictures are generally raster.

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 reccommends 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 when 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/