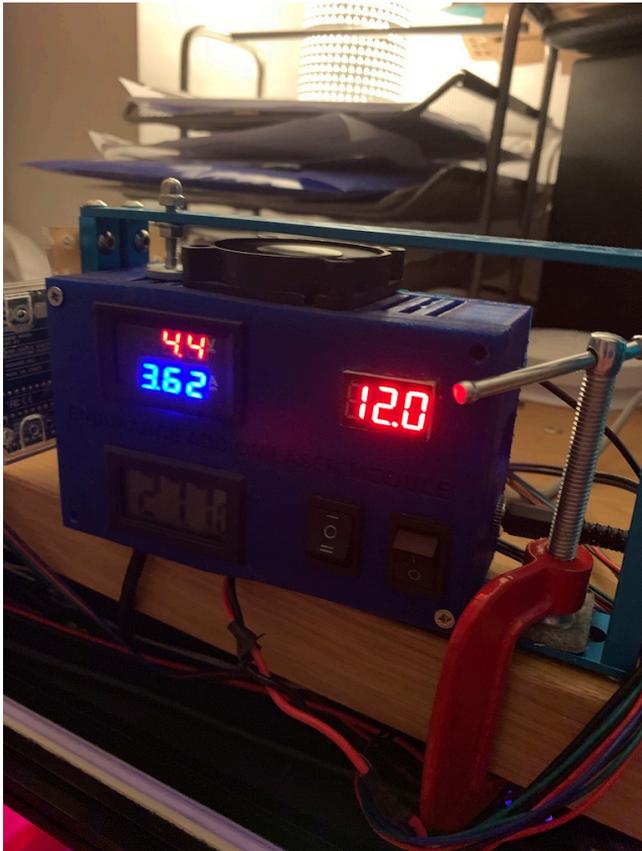


COMPARE GRBL SETTING BEFORE YOU START USING LIGHTBURN

If your laser machine use GRBL controller there are some details that need to be set before you start using Lightburn. I want to focus on one of them.

In my case it took me some time to solve one problem :

I've noticed that when I set power above 50 % the value of current on laserbox was that same even when I set power to 100 %. It was about 3.62 A. I thought that could be hardware problem.



I asked George from Endurance Lasers (<http://endurancelasers.com>) for help and he suggested me to check arduino settings to make sure that everything is ok with my laser diode parameters. Here is the link with instruction how to do that :

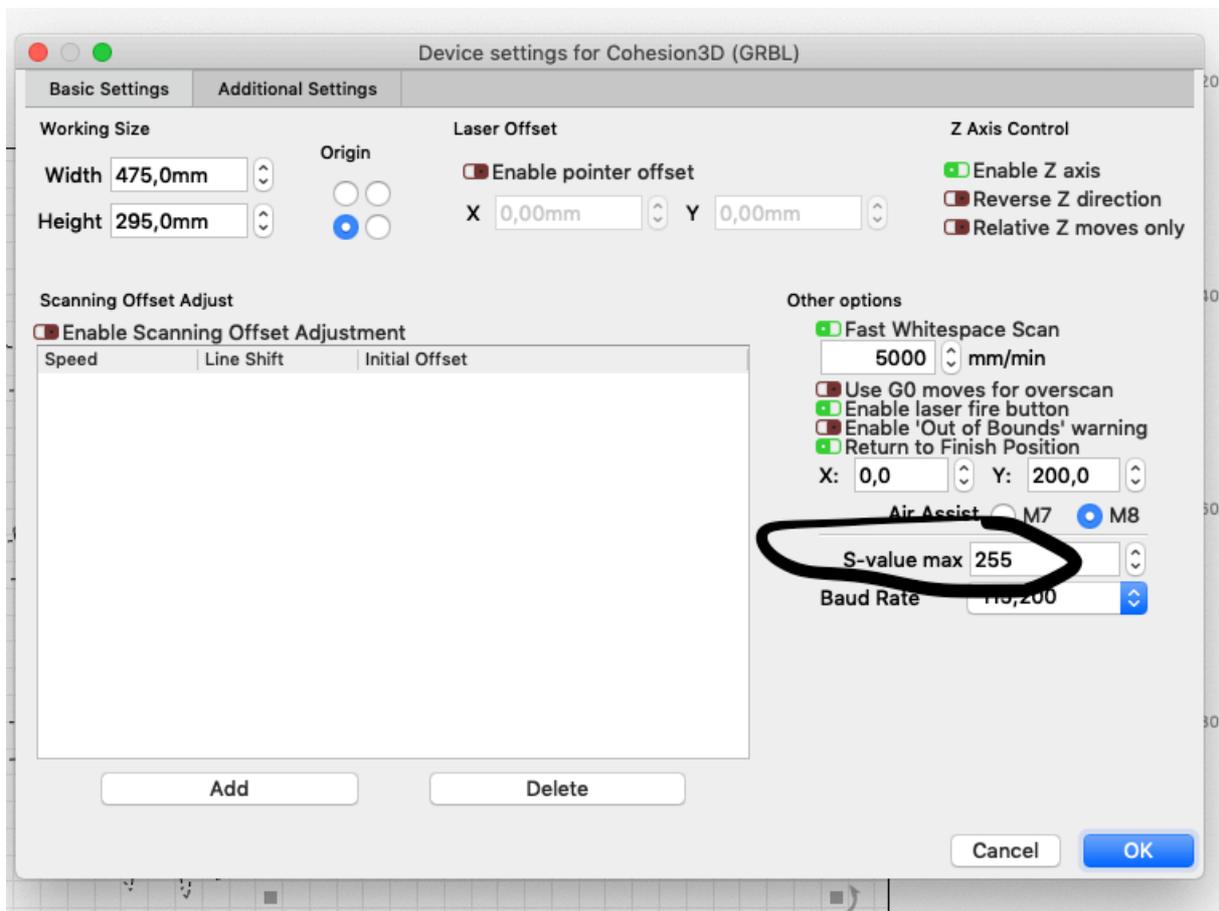
<http://endurancelasers.com/arduino-generator-for-the-laser/>

I installed Tera Term application and step by step I followed instruction on video. Everything seemed to be ok with diode laser so I the problem could be only one- Lightburn or GRBL settings.

They suggested to check if "S value max" setting in the Device Settings window in LightBurn matches the value set for the \$30 parameter in GRBL. The problem was found. In GRBL parameters of my controller the value of \$30 was 255 meanwhile "S value max" settings in Lightburn was 1000.

Report inches (\$19)	<input type="checkbox"/> False
▼ Homing and Limits	
Soft limits (\$20)	<input type="checkbox"/> False
Hard limits (\$21)	<input type="checkbox"/> False
Homing cycle (\$22)	<input type="checkbox"/> False
Max spindle speed (RPM), S-Value max (\$30)	255
Min spindle speed (RPM), S-Value min (\$31)	0
Laser mode enable (\$32)	<input checked="" type="checkbox"/> True
▼ Outputs setup	
Step pulse (microseconds) (\$0)	10

I just changed S value max for 255 , clicked OK and VIOLA !!
Everything now works perfect.



This was a small thing, but for those who just begun use Lightburn it may be helpfull tip.

And the last thing : if you use diode laser machine and run Lightburn for a first time check in software settings if you choosen "mm/min "



Tymtum