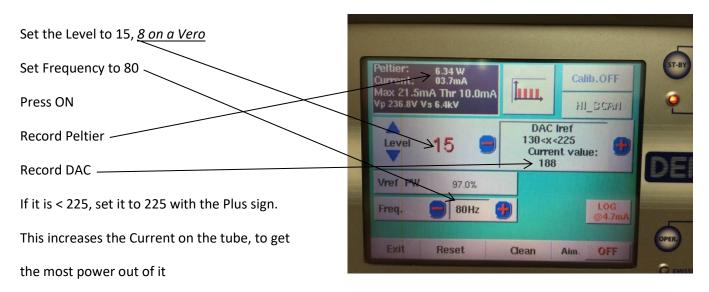


DEKA UltraSpeed US20-D CO2 Laser Power Check

Turn Laser ON.	
Touch START	
Hold Down Stand By for 10 seconds,	13:06:35
Another screen will appear. (CW Mode)	DEKA
Set the Power to 10 W using the	
UP Arrow	Wear safety goggles!
Press ON	
Look in the top left corner, there is a	
Black rectangle, the first line is "Peltier"	Peltier: 10.78 W Calib.OFF
Record the number's average as it fluctuates	Max 21.3mA Thr 10.0mA Vp 198.3V Vs 11.6kV HI_SCAN
up and down slightly.	Power 10W
If the Peltier reading is 0.0W after pressing on,	Vref CW 80.5%
check to see if "LP" (Low Power) appears	LOG @4.7mA
in the middle of the screen.	Exit Reset Clean Aim. 100%
If it does, the tube is too weak to produce	C EMI
any power at all. Vs can still be recorded by pressing	"On" a few times.
Record "Current"	
Look a couple of lines down, after Vp is Vs (Vp is usu	ally about 200V, plus or minus 10 V).
Record Vs .	
Now, touch the graph in the top middle of the Scree displaying 4 vertical bars	n, the Screen will change to the PW Mode setting,





Record the new DAC

Record the new Peltier Reading

Press "EXIT" at the Bottom left and when it asks if you want to save the new DAC settings, touch "Yes"

Standard for recording readings:

Peltier (10W, CW):	
<u>Current</u> :	
<u>Vs</u> :	
Peltier P15/80: DAC:	
Peltier P15/80 with DAC maxed out at 225:	

Please e-mail or fax the obtained parameters to: <u>cs@ils-service.com</u> Fax: (954) 289-4630

Explanation:

On CW or PW Mode, the Peltier is the actual power as measured internally by the laser.

If it is set to 10W CW and the Peltier shows less than 7 W, then it could be an indication of a Low Tube. If the Vs reading is greater than 12.5 kV, that is another indication of a bad tube.

At Level 15, 80 Hz, the Bare Minimum should be 5.2W, with the DAC maxed out. Any less than that, the tube is bad. At 5.2W, the tube will need to be replaced soon.

<u>Tubes last on the average, about 3 – 4 years,</u> whether the laser is used or not.