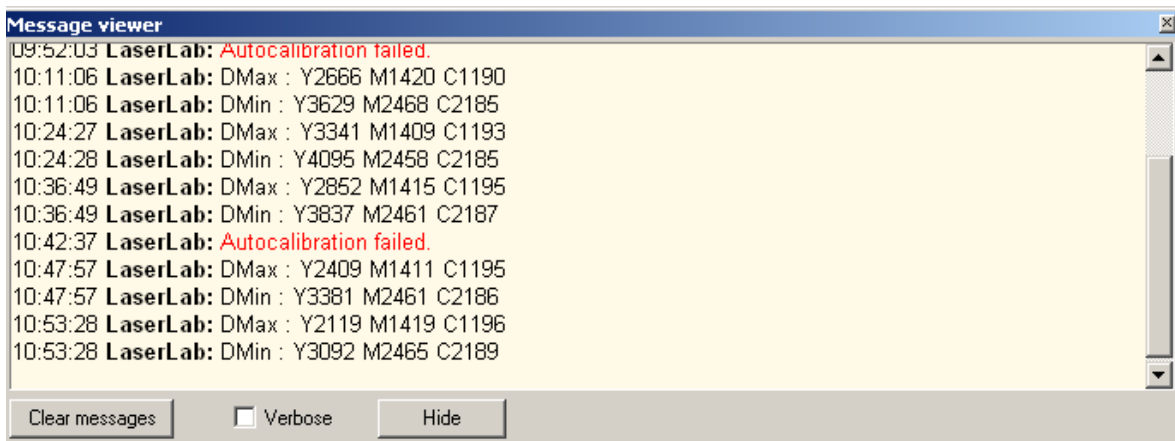




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TOOL to determine the status of the laser in a Polielettronica Laserlab:

- 1) Go to CALIBRATIONS
- 2) Go to Advanced
- 3) Click on AUTOCALIBRATION, with older software's and gas lasers this operation may take several minutes, with newer software's and laser configurations it takes 10-15 seconds.
- 4) After AUTOCALIBRATION is finished click on "FIND DMAX", this will take a few seconds after which the view monitor will display two lines of data.
One line of Data will be D-Max and one line will be D-MIN.



This picture show several lines with sets of Dmax and Dmin lines. You can see on the time stamp when each set of lines were generated. (This was a repair session where we adjusted the lasers so that they would "fit around" the Target values.

Your "**TARGET VALUES**" will also be displayed at the advanced page. The "Target Values" are the set of numbers that is required to obtain a good color balance on the particular emulsion used in your machine. Just like an enlarger showing 30 Magenta and 20Yellow to give a good print, the Poli is operating with a set of Magenta, Yellow and Cyan values as the "Filter-pack" needed to produce pleasing prints on the photo paper.

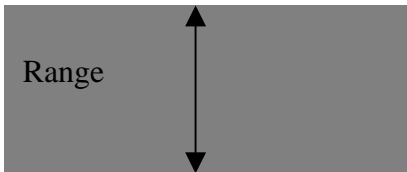




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The Target Values should be located right between D-Min and D-Max values.

Y208 - M192 - C 254 **D-Max** is the max exposure on the paper = blacks in image



Target Y329 – M224 – C265

Y405 - M382 - C409 **D-Min** is no exposure = paper base or “white” in image.

To find the value right between D-Min and D-Max:

Add the two values together, and divide by 2 that will give you the middle value.

Example: D-Min is 400 and D-Max is 200, if you add 200 to 400 you get 600, divide by 2 and you have 300, which is exactly midways between 200 and 400.

With the above example:

Yellow D-Min is 405 (or 4050) and Yellow D-Max is 208 (or 2080), add 405 to 208 and you will get 613, divide by 2 and you will have approx 306.

This means that your Yellow Target SHOULD be around 306, it can be 250 or 350 and still be good. However if the target gets close to D-Max, which was 208 then the laser may be at the end of its life.

HOWEVER, it may be possible to adjust the electronics to bring the D-Max down, or up, so that the Target value will remain between the D-Min and the D-Max values.

If your machine has not been serviced in a long time you may want to consider a service visit, before you run out and buy a new laser.





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The Target value is the filter combination that is needed by the paper to produce the correct color of the image. Just like CMY on an old fashioned enlarger. With one difference; If you increase a color on the Poli, say you increase the target Y from 329 to 349 you will get an image that is more yellow. This is because the light source in fact is blue. (blue laser)

If the Target is very close to **D-Max** it means that the paper is requiring ALL the power of the laser.

When Target is very close to **D-Max** it will give error messages because the printer is not able to obtain the required Target.

If the Target is very close to **D-Min** it means that we have too much power from the laser.

When Target is very close to **D-Min** it will give error messages because the printer is not able to reduce the laser light enough to obtain the required Target..

	Y	M	C
D-Max	208	192	254
	+121 OK	+32 low	+9 low
Target	329	224	265
	+76 OK	+158 high	+144 high
D-Min	405	382	409

	Y	M	C
D-Max	208	152	180
	+121 OK	+72 OK	+85 OK
Target	329	224	265
	+76 OK	+98 OK	+80 OK
D-Min	405	322	345

VERY VERY IMPORTANT NOTE:

If you get Autocalibration failure or if the Target is getting very close to D-Max you may want to investigate the chemistry before you look to change the laser settings. It very often is the chemical balance that is incorrect and is causing the target values to be low.

It is more likely that the chemical is exhausted or over replenished than the lasers being out of calibration.

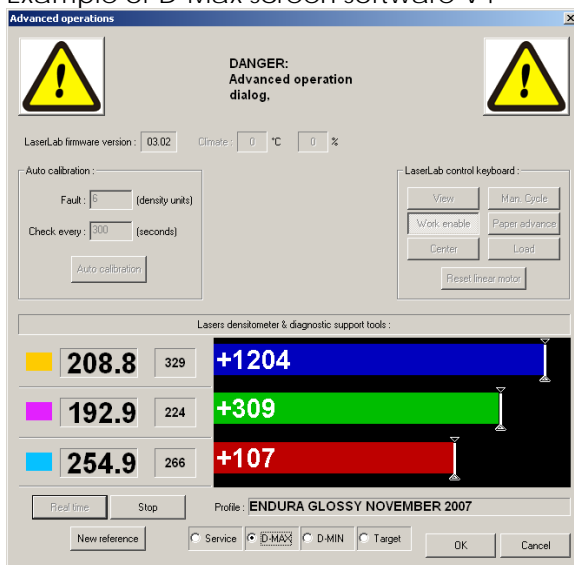




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ALSO, if you have fluctuations in color, magenta and red fluctuations, you should check the consistency of the rinse water. The temperature and the flow rate of the water heavily influence the color balance of the prints, especially red and Magenta variations are caused by wash water variations.

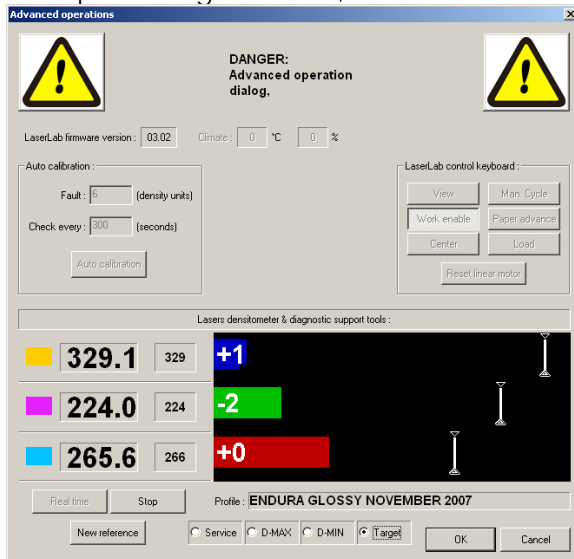
Example of D-Max screen software V4



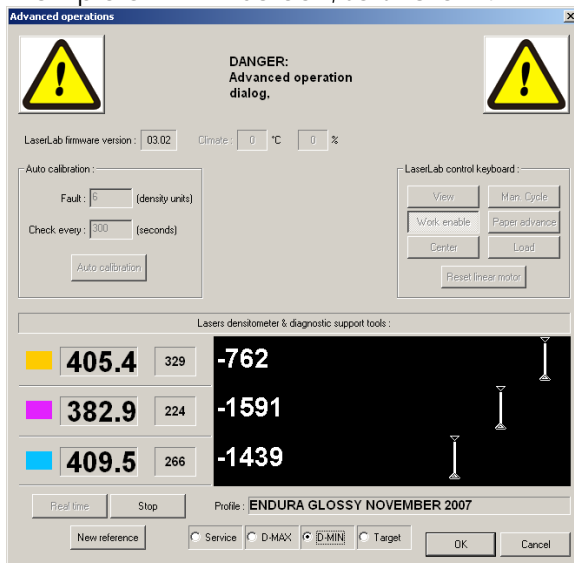


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Example of Target Screen, software V4



Example of D-Min Screen, software V4



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If you are using older softwares, V1 through V3, your screen will look different, but the basic theory will be the same.

The Old type Gas lasers have no regulation of intensity on the lasers.

If you are using SS lasers it is possible to adjust the intensity of the laser. WE strongly recommend to leave this job to a trained technician as the lasers are expensive and can be damaged if the adjustment is not done properly.

(Call your technician 800 675 1493.)

If you have any questions, go ahead and call.

Best regards

Rudy Sagun / Jens J Jensen

