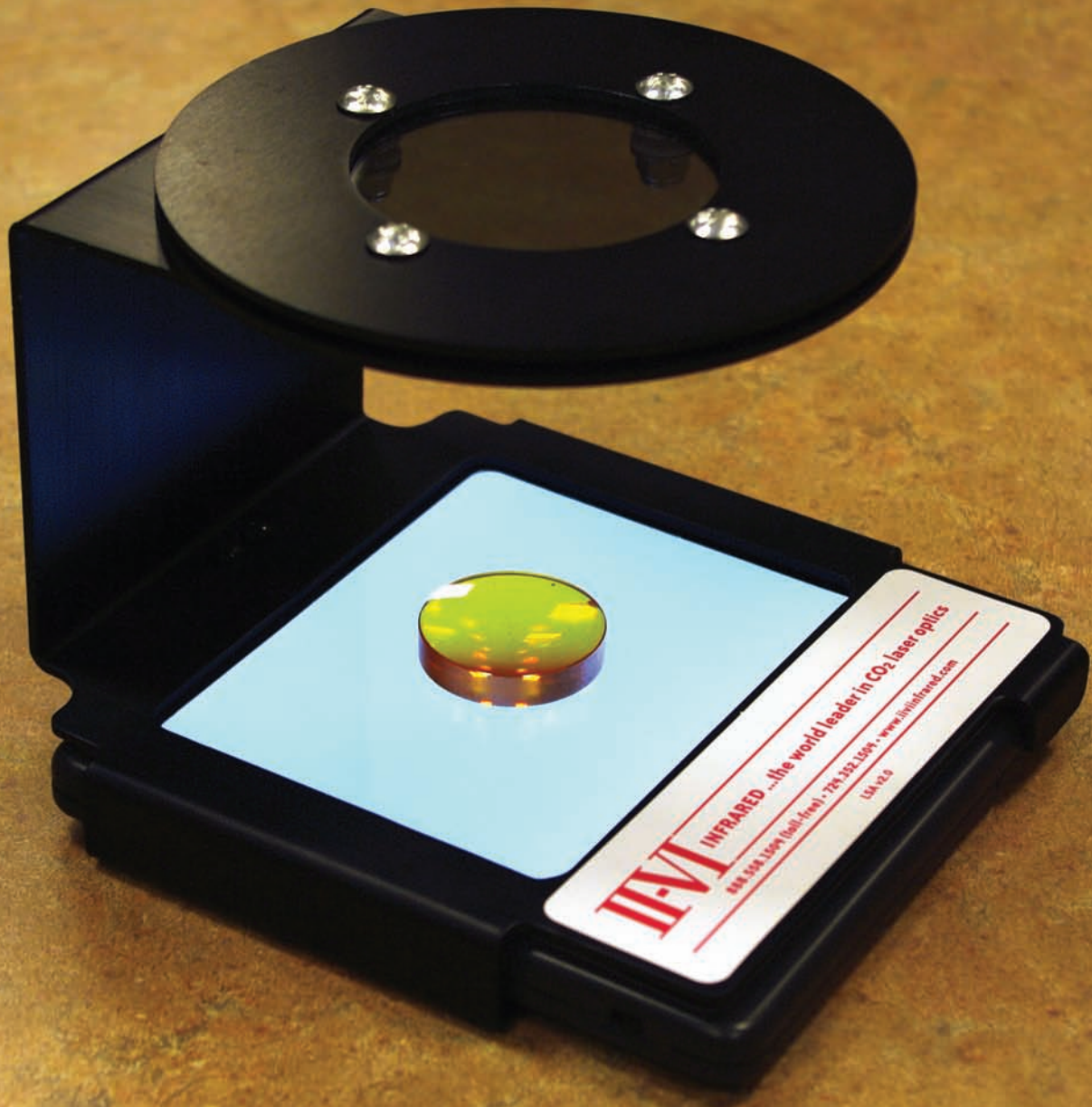




INFRARED

... the world leader in CO₂ laser optics

LENS STRESS ANALYZER (LSA)



USER GUIDE



Powering the LSA with the AC adapter

The LSA comes with a 100-240V AC power adapter, and a set of six international plug adapters. Select the appropriate plug adapter, snap it into the 100-240V AC power adapter, and plug the power adapter into an electrical outlet.

You are now ready to use the LSA.

Note: See below for a description of the six plug adapters.



The Included International Plug Adapters

International plug adapters, clockwise from upper left, are for North America (prongs with holes), United Kingdom, Europe, Argentina, Australia, and China (prongs without holes).



Powering the LSA with 6 AAA Batteries

Note: You will need 6 AAA batteries (not included).

Place the LSA on its side as shown in the picture at right. Remove the battery compartment door, and insert 6 fresh AAA batteries as shown in the picture at right.

Snap the battery compartment door back in place.

You are now ready to use the LSA.



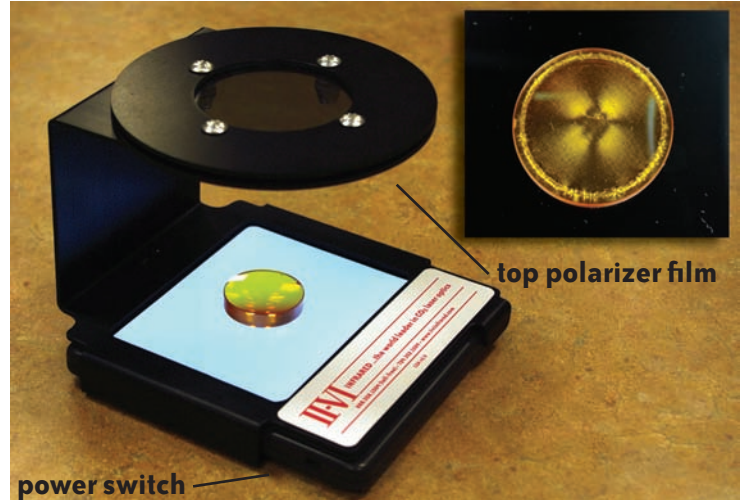
LENS STRESS ANALYZER

Using the LSA

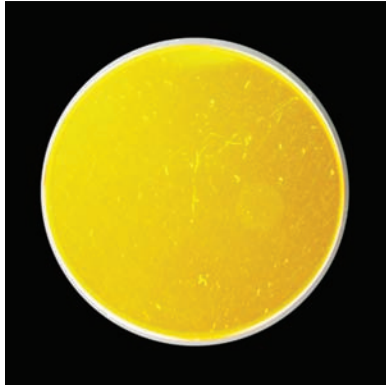
Place a lens or other transmissive optic, such as an output coupler, on the fluorescent light pad as shown in the picture at right. Turn on the light pad via the power switch, as noted. Rotate the top polarizer film, as noted, while looking down through the film at your optic.

As you rotate the top polarizer film into cross-polarization, the fluorescent light pad will appear to go dark, and any stress in your optic will appear, as shown in the inset image in the picture at right.

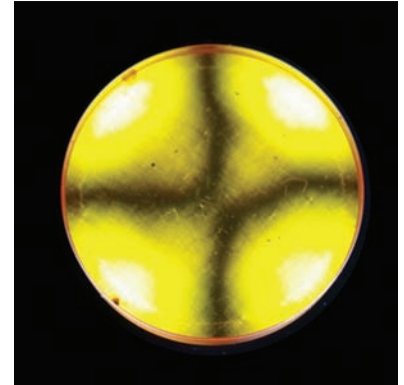
Below are images of various stages of lens stress.



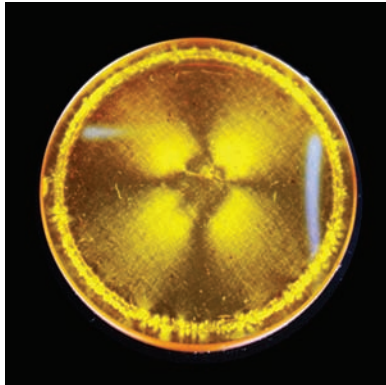
No apparent stress.
May just need
cleaned.



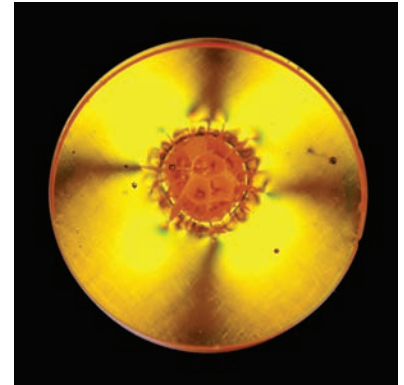
Moderate stress.
Should be replaced.



Severe lens stress.
Must be replaced to
prevent catastrophic
lens failure and
possible system
damage.



Catastrophic lens
failure and possible
system damage.



Do you need to clean your optics?

Order our CO₂ Laser Optics Cleaning Kit, p/n 911466. Need refills? Our Lens Cleaning Refill Kit is p/n 881308.

Our polish is also available separately, p/n 787388.



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