

# Laser-Alignment-Paper LDT-LP

Industry Standard Laser Alignment Thermal-Sensitive Paper

- Simple
- Quick
- Affordable laser beam alignment



- Beam shape
- Mode
- Intensity
- Divergence
- Energy distribution



Pulse width range	1 ns to 30 ms
Power level range	5 mJ/cm <sup>2</sup> to 20 J/cm <sup>2</sup>
Min. beam diameter	6.5 mm
Sheets per box	50 pieces
Sheet size	127 mm x 57 mm

Caution:

Always wear laser protective eyewear

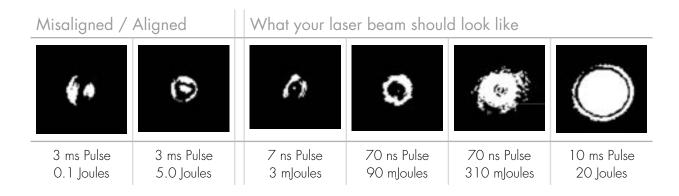
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### How to Handle the LDT-LP:

- LDT-LP is sensitive over a broad spectrum from ultraviolet to infrared, it is used to align external accessories to the laser beam axis, such as beam expanders, lenses, apertures, attenuators, and power measuring equipment.
- LDT-LP is simple to use. Hold or fasten it in the beam path at the point where the beam imprint is to be recorded. Pulse the laser and a permanent visual record is produced, corresponding to the energy distribution within the laser beam. If the laser being used in continuous wave (CW), you can create a short pulse by Q-switch, mechanical chopper, or by physically turning the laser on and off rapidly.
- For laser with a beam diameter of less than 6.5 mm, please use a diverging lens to enlarge the beam diameter and to achieve a better resolution with the LDT-LP.
  Position a positive lens in the beam path and take a picture with the LDT-LP at a distance of >2.5 times the focal length of the lens.
- Please remove fiber optic systems before you take a picture with LDT-LP. In a fiber a mix of modes can occur and you will receive a homogenous image which does not allow conclusions about the irregularities in the beam path.
- Increase or decrease the power of your laser until details of the laser beam are visible on the LDT-LP. Not all lasers have enough power to leave an image on the paper. As a guide: you will get a good image with a pulsed laser, femto to 50 msec., with at least 10 mJ output. If necessary please fire several pulses on the paper.

## The Imprint on LDT-LP Paper Provides Information about

- Mirror alignment accuracy
- Energy distribution, mode quality and edge definition
- Vignetting
- Secondary emissions due to uncoated or mis-placed optics
- Divergence
- Optical damage in the beam path
- Save LDT-LP burns for historical evaluation and comparison of alignment and beam quality. OEMs and field service personnel commonly use previous burn patterns for quick performance checks



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