

CT Blanking SET

One possible setup is shown in the following sketch. The mirror excursion is tuned with the SIZE potentiometer. Note, the excursion can only be adjusted to very small values, when the blanking signal is of TTL Type. Wrongly setup SIZE-Values may heat the galvo and destroy it. Therefore, this setup is only suitable for extremely small laser beam diameter systems.



Focusing Setup:

Focusing the laser beam and positioning the blanking galvo into the confined jet. Preferably use achromatic lenses with equal focal length. Place the lenses at a distance of twice the focal length and position the blanking galvo in the middle of the lenses. When using high quality lenses a beam diameter reduction of factor 10 in regards to the original beam diameter can be achieved. Additionally, place a pin-hole behind the second lens. This setup only requires the mirror to move 1 to 2 degrees.



90° Setup:

Reflecting the laser beam 90 degrees. This setup also requires a small mirror excursion. However, note, that the beam being reflected 90 degrees might not always hit the scanning-system as of the natural drift of the galvo. Solutions: Minimize the distance between reflected beam and scanner-set, use an additional pinhole and adjust the size setting once in a while to exactly hit the scanning-system.

