



Laser Testing Stand Status

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Laser features

- Pulsed Laser (1-10ns pulse)
- Low power ($\sim 5\text{mW}$)
- Infrared Laser as 1060nm has absorption depth $\sim 350\mu\text{m}$ in silicon
- Multi wavelength option will be advantage
- Attenuator needed to lower power of laser.

Supplier : ????? (Searching)



Source: Internet

Suggested Supplier: Pulsed Laser

- LASERGLOW TECHNOLOGIES

Toronto, Canada

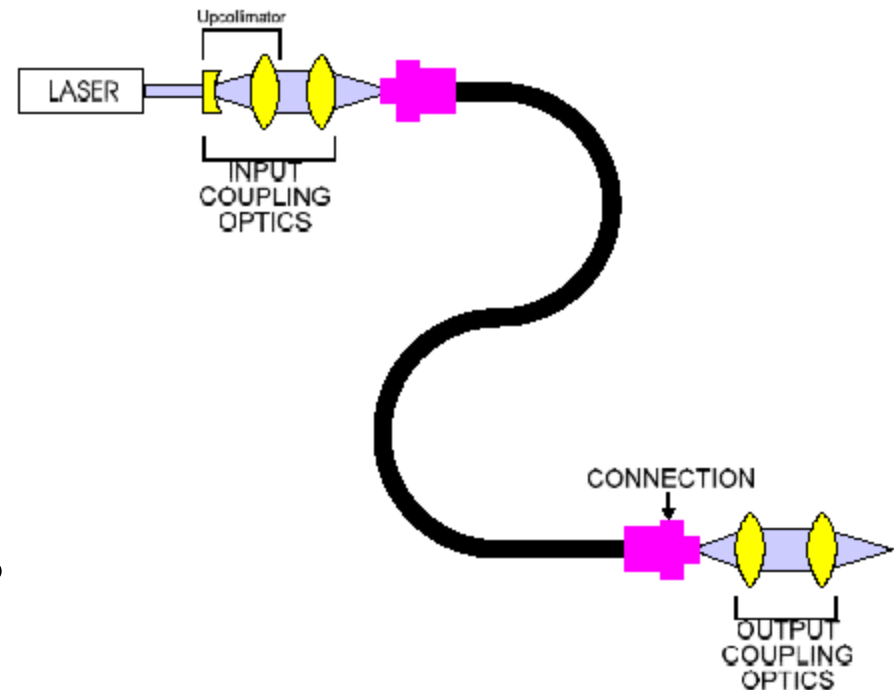
- US LASER Corporation

New Jersey , USA

Beam Delivery System(BDS)

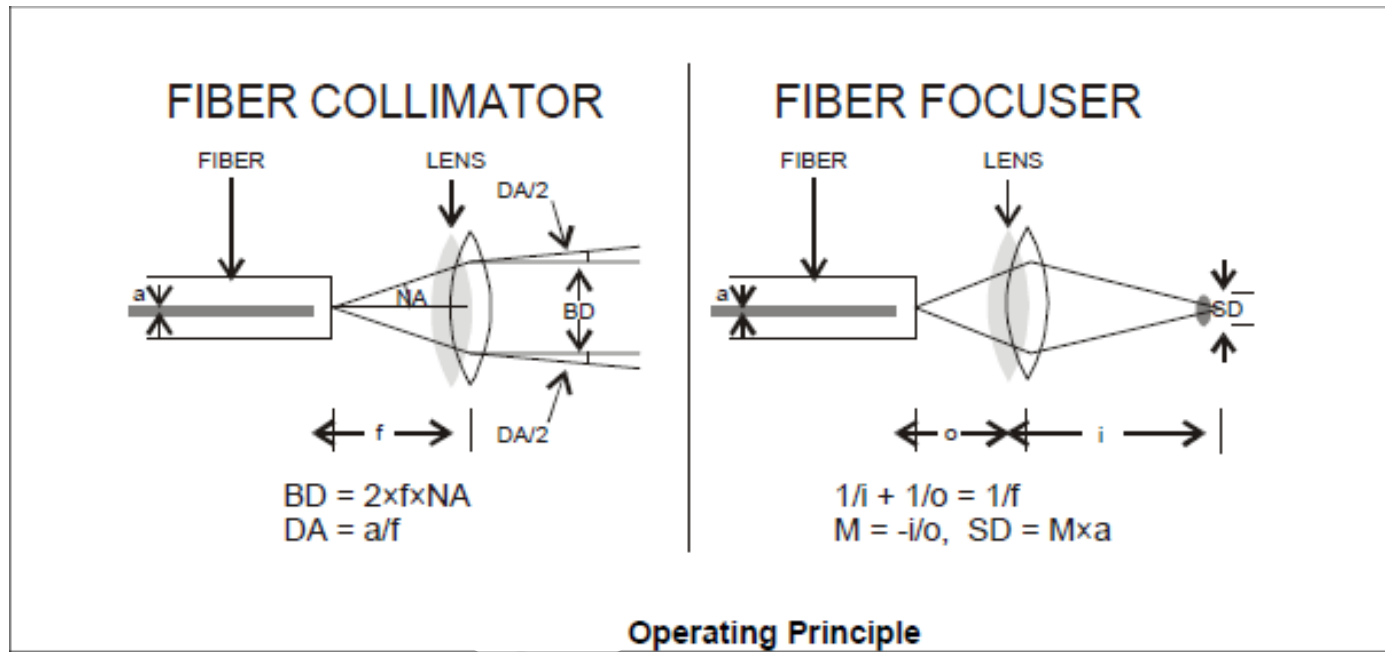
■ BDS

- Input Coupling Optics
 - Up-collimator
 - Focuser
- Fiber End Connections
 - ST Connector
- Output Coupling Optics
 - Collimator
 - Focuser



Source: US Laser Corp. Webpage

Collimator / Focuser



BD: Collimated beam diameter

NA: Numerical aperture

f: Focal length of the lens

a: Fiber Core diameter

DA: Divergence angle of the beam

M: Magnification factor

SD: Spot diameter

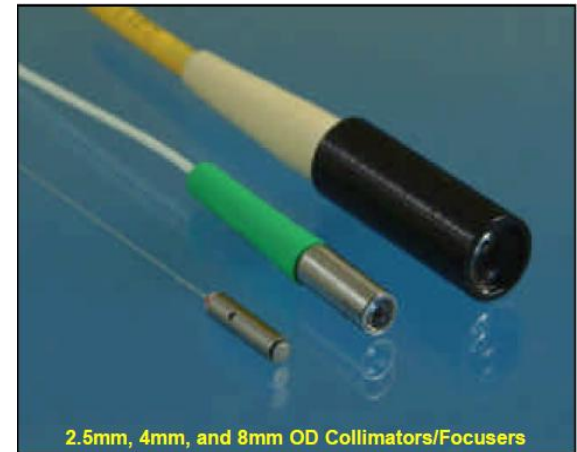
i,o: Image and object distance

WD: Working distance

Collimator/Focuser features

- High power handling
- Rugged and compact design
- Low insertion loss
- Low back reflection
- Multimode Fiber versions
- Diffraction limited optics
- **LOW COST!**

Suggested Supplier **OZOptics**



2.5mm, 4mm, and 8mm OD Collimators/Focusers



1.6mm OD Collimator/Focuser

Source : *OZOptics Webpage*

References

- BDS : [US Laser Corporation](#)
- Collimator / Focuser : [OZ Optics](#)