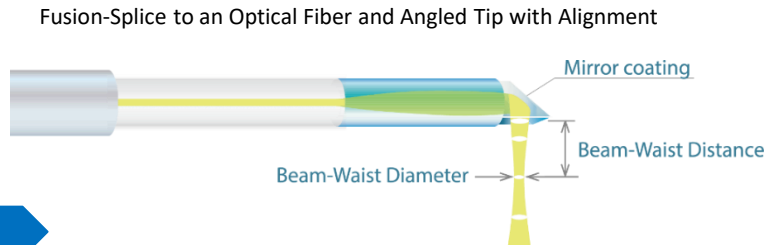


# SILICAGRIN

## SILICAGRIN LEC (Lateral Emitting Collimator)

**Beam Shape** → Thin, Long, and Lateral



### Features

- A light beam with a calculated beam diameter and beam waist distance is emitted from the side of the lens. Incidence and collection of light from the side is also possible.
- In comparison with other side-emitting technologies such as ball lenses, it is significantly smaller and can be mass-produced.
- Suitable for visible to near-infrared wavelengths
- Custom design available
  - Fiber: SMF and MMF
  - Metal coating on reflective surface, AR coating on output surface

### Two types of LECs



#### Direct Polishing LEC

Thin, compact and simple

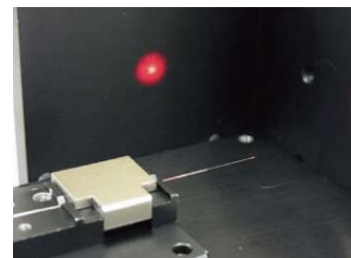
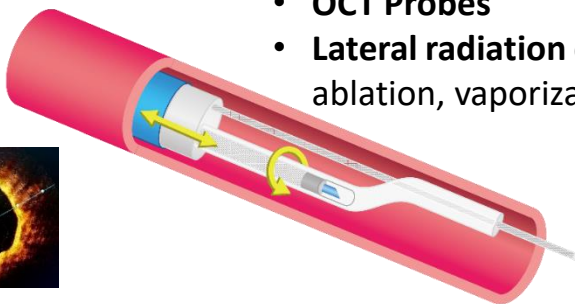


#### Prism Fused LEC

Accurate circular beams are possible

### Applications

- **OCT Probes**
- **Lateral radiation catheters in ablation, vaporization treatments**



Emission experiment using Prism Fused LEC

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