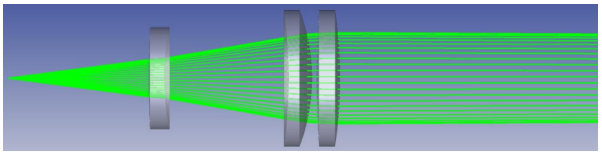
**Long Distance Collimator** The fiber optic beam can be collimated and shaped for different lasers output through fiber optic connections, providing diffraction-limited performance at the design wavelength, with a collimation distance of up to 200 meters. The structure of this series of collimators is compact. Aberration correction is performed during design by selecting an air-spaced doublet lens series, which has excellent collimation effect and ability to couple space light. The effective focal length of the doublet lens depends on the wavelength. Therefore, this series of collimators should be used at the design wavelength for optimal performance.



## Single-Mode Fiber

| Wavelength | Bandwidth | Waist Beam | Divergence Angle | EFL | NA (Lens) | Fiber Type | connector | Transmittance |
|---|---|---|---|---|---|---|---|---|
| 405nm | ±30nm | 10.2mm | 0.09mrad | 66.5mm | 0.19 | 405HP | FC/PC FC/APC Sma905 | >92% |
| 450nm | ±30nm | 13.7mm | 0.07mrad | 68.4mm | 0.18 | 460HP | | |
| 520nm | ±30nm | 14.2mm | 0.06mrad | 70.3mm | 0.18 | | | |
| 635nm | ±30nm | 14.5mm | 0.07mrad | 72.1mm | 0.17 | 630HP | | |
| 780nm | ±30nm | 14.2mm | 0.07mrad | 73.3mm | 0.17 | 780HP | | |
| 850nm | ±30nm | 14.9mm | 0.07mrad | 73.7mm | 0.17 | | | |
| 905nm | ±30nm | 14.9mm | 0.07mrad | 73.9mm | 0.17 | | | |
| 980nm | ±30nm | 15.0mm | 0.09mrad | 74.2mm | 0.17 | 980HP | | |
| 1064nm | ±30nm | 15.2mm | 0.09mrad | 74.5mm | 0.17 | | | |
| 1310nm | ±30nm | 12.9mm | 0.12mrad | 75.1mm | 0.17 | Smf-28e | | |
| 1550nm | ±30nm | 14.2mm | 0.14mrad | 75.6mm | 0.17 | | | |
| 1650nm | ±30nm | 14.5mm | 0.14mrad | 76.0mm | 0.17 | | | |

**Changchun New Industries Optoelectronics Tech. Co., Ltd**
http://www.cnilaser.com
No.888, Jinhu Road, High-tech Zone, Changchun 130103,China
Phone: +86-431-85603799
Fax: +86-431-89216068

## MultiMode Fiber

| Wavelength | Bandwidth | Waist Beam | Divergence Angle | EFL | NA (Lens) | Fiber Type | connector | Transmittance |
|---|---|---|---|---|---|---|---|---|
| 450nm | ±30nm | 25.0mm | 2.0mrad | 50.11mm | 0.25 | 62.5/125 | FC/PC FC/APC Sma905 | >92% |
| | ±30nm | 22.0mm | 4.9mrad | 50.11mm | 0.25 | 200/220 | | |
| | ±30nm | 22.0mm | 8.93mrad | 50.11mm | 0.25 | 400/440 | | |
| 485nm | ±30nm | 22.0mm | 2.75mrad | 50.1mm | 0.25 | 105/125 | | |
| | ±30nm | 22.0mm | 4.6mrad | 50.1mm | 0.25 | 200/220 | | |
| 525nm | ±30nm | 25.0mm | 2.4mrad | 50.12mm | 0.25 | 62.5/125 | | |
| | ±30nm | 22.0mm | 2.5mrad | 50.12mm | 0.25 | 105/125 | | |
| | ±30nm | 22.0mm | 4.5mrad | 50.12mm | 0.25 | 200/220 | | |
| | ±30nm | 22.0mm | 8.5mrad | 50.12mm | 0.25 | 400/440 | | |
| 635nm | ±30nm | 25.0mm | 2.0mrad | 50.2mm | 0.25 | 62.5/125 | | |
| | ±30nm | 22.0mm | 2.3mrad | 50.2mm | 0.25 | 105/125 | | |
| | ±30nm | 22.0mm | 4.6mrad | 50.2mm | 0.25 | 200/220 | | |
| | ±30nm | 22.0mm | 8.2mrad | 50.2mm | 0.25 | 400/440 | | |
| 780nm | ±30nm | 25.0mm | 4.1mrad | 49.17mm | 0.25 | 62.5/125 | | |
| | ±30nm | 22.0mm | 2.5mrad | 49.17mm | 0.25 | 105/125 | | |
| | ±30nm | 22.0mm | 4.4mrad | 49.17mm | 0.25 | 200/220 | | |
| 850nm | ±30nm | 22.0mm | 4.1mrad | 50.05mm | 0.25 | 62.5/125 | | |
| | ±30nm | 22.0mm | 2.4mrad | 50.05mm | 0.25 | 105/125 | | |
| | ±30nm | 22.0mm | 4.3mrad | 50.05mm | 0.25 | 200/220 | | |
| | ±30nm | 22.0mm | 8.4nrad | 50.05mm | 0.25 | 400/440 | | |
| 905nm | ±30nm | 10.9mm | 4.5mrad | 24.99mm | 0.25 | 105/125 | | |
| | ±30nm | 10.9mm | 8.3mrad | 24.99mm | 0.25 | 200/220 | | |
| 1064nm | ±30nm | 25.0mm | 4.5mrad | 49.84mm | 0.25 | 62.5/125 | | |
| | ±30nm | 21.2mm | 2.8mrad | 49.84mm | 0.25 | 105/125 | | |
| | ±30nm | 21.2mm | 4.9mrad | 49.84mm | 0.25 | 200/220 | | |
| | ±30nm | 21.2mm | 9.3mrad | 49.84mm | 0.25 | 400/440 | | |
| 1310nm | ±30nm | 25.0mm | 4.5mrad | 49.97mm | 0.25 | 62.5/125 | | |
| | ±30nm | 21.2mm | 2.7mrad | 49.97mm | 0.25 | 105/125 | | |
| | ±30nm | 21.2mm | 4.8mrad | 49.97mm | 0.25 | 200/220 | | |
| | ±30nm | 21.2mm | 9.2mrad | 49.97mm | 0.25 | 400/440 | | |
| 1550nm | ±30nm | 25.0mm | 4.5mrad | 50.16mm | 0.25 | 62.5/125 | | |
| | ±30nm | 21.2mm | 2.7mrad | 50.16mm | 0.25 | 105/125 | | |
| | ±30nm | 21.2mm | 4.8mrad | 50.16mm | 0.25 | 200/220 | | |
| | ±30nm | 21.2mm | 9.1mrad | 50.16mm | 0.25 | 400/440 | | |

**Changchun New Industries Optoelectronics Tech. Co., Ltd**
http://www.cnilaser.com
No.888, Jinhu Road, High-tech Zone, Changchun 130103,China
Phone: +86-431-85603799
Fax: +86-431-89216068