

Objective Lenses

High NA infinite conjugate objective for femtosecond laser processing applications

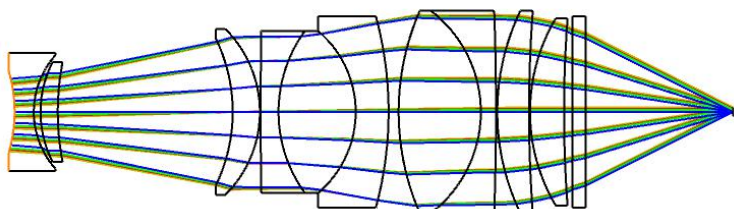
The **achromatic objective lenses** is an infinity corrected lens used for axial achromatic correction. It produces the same flat focus field for multiple imaging modes without introducing vignetting effect, so the observation image at the edge of the field of view can also be natural and clear. The objective lens with focal length can be used for femtosecond laser (such as 770-790 nm) or near-infrared (such as 1064 nm) laser aberration correction, and can also be used for optical systems of other wavelengths. CASTECH's laser objective lenses have the characteristics of high NA, high LIDT, high transmission, and high flatness of field of view.



Applications

- Coaxial Observation
- Laser Import
- Laser Processing
- Chromatic Aberration Correction

CASTECH's products are produced independently throughout the entire process and can be customized according to customer needs. Refer to the following list for standard products.



Schematic diagram of the light path

Objective Lenses Model Number: CAOL-w-e-l-n

| Wavelength (w) | Expansion (e) | Distance (l) | NA (n) |
|----------------|---------------|--------------|--------|
| 1064 nm | 20X | 20 mm | 0.45 |
| ... | 50X | 15.1 mm | 0.67 |
| ... | ... | ... | ... |

Typical Specifications

| Wavelength | Expansion | Distance | NA | Resolution | Transmission |
|------------|-----------|----------|------|--------------|--------------|
| 1064 nm | 20X | 20 mm | 0.45 | 0.61 μ m | $\geq 82\%$ |

Housing dimensions(mm):

