

Laser Processing Objective Lenses Guide

While ordinary objective lenses are used to magnify small samples for observation purposes, objective lenses for laser processing require exceptional performance to concentrate laser light to a single point at the theoretical limit. A wide range of lasers are used for processing, from ultraviolet to infrared, and an extensive lineup is available to meet these requirements. In addition to magnification, the number of variations with glass thickness correction has been increased for processing devices through glass substrates.

Opto Sigma also provides objective lenses to meet your laser processing needs.



Wave length	Magnification	Glass Thickness Compensation	Part Number
266nm 355nm 532nm 780nm 1064nm	10x 20x 50x 80x 100x	0.7mm 1.1mm (なし)	PFL-UV-AG-LC PAL-NUV-LC PAL-NIR(780) PAL-NIR-LC

- Objective lenses without glass sheet correction are listed on the Optics & Optical Coatings > ME-Optics > Objective Lens page.
- Its long working distance design, air gap design that does not use adhesive, and special coating technology ensures an outstanding laser damage threshold.
- An infinity correction lens that can also be used for ordinary lens barrels.
- Features an achromatic lens design free from deviations in laser light wavelength and visible light focal distance. An anti-reflection coating has also been used for minimal intensity loss at any wavelength.

Integrated Internal Production System for Peace of Mind

An integrated internal production system covers the planning and design stages through to the manufacturing and assembly stages, which translates to high quality and short delivery times, and in turn, a gain in trust from customers. More than just quality assurance, this system ensures that any issues that might arise are resolved quickly.



Transmitted wavefront measurements are made during assembly to correct any fluctuations in parts or assembly errors and maintain an excellent level of quality.

