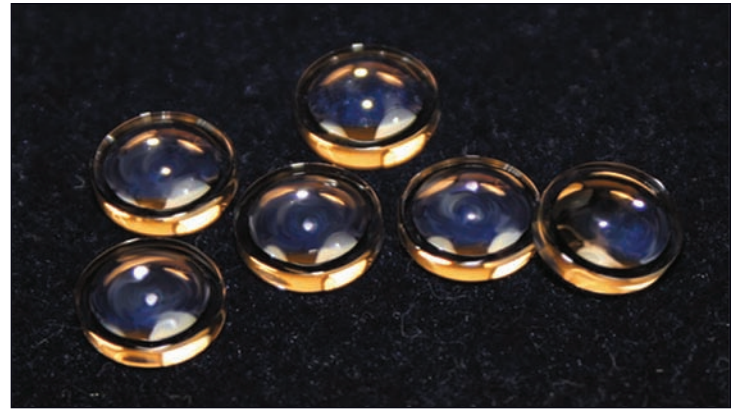


Blue Laser Collimating Lens

- Optimized for Nichia® blue laser
- Compatible with other blue diode lasers
- Aspheric molded glass lens
- Diffraction limited performance
- Compact, single lens design
- Short wavelength provides smallest spot

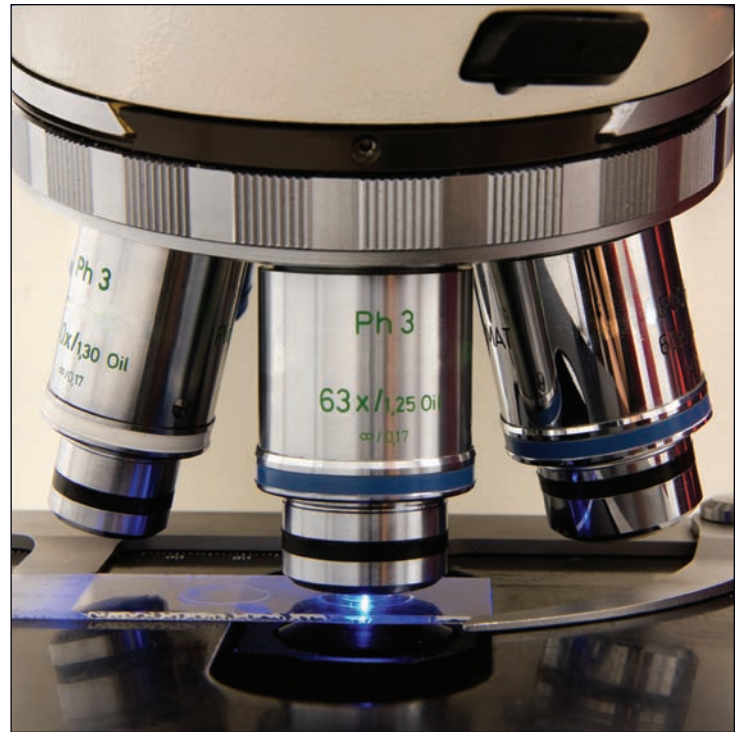


LightPath's 352673 molded glass aspheric lens is optimized to collimate Nichia's® blue laser diode, and is manufactured and designed to meet extremely stringent optical standards.

Achieving good beam quality is particularly difficult for shorter wavelength lasers. The 352673 molded glass aspheric lenses are designed for the specific beam divergences, peak wavelength and window material of commercial blue diode lasers, enabling blue laser applications to achieve excellent beam quality and performance.

Working with lasers from 400 nm to 415 nm with a design centered at 408 nm per the laser manufacturers' specification, this design was optimized with a very large and forgiving clear aperture and is also compensated for the laser manufacturers' variation in window thickness.

The 352673 lens utilizes LightPath's ECO-550 glass, a lead-free alternative to traditional moldable glasses. This glass is fully RoHS compliant, in accordance with the new European restrictions on hazardous substances.



Lens Codes 352673 and 352671		Optical Design Specifications	
Drawing	Parameter	352673 <small>RoHS ✓</small>	352671 <small>RoHS ✓</small>
	Optical Glass Material	ECO-550	ECO-550
	Design Wavelength	408 nm	408 nm
	Numerical Aperture (NA)	0.60	0.60
	Clear Aperture (CA)	4.80 mm	4.80 mm
	Effective Focal Length (EFL)	4.02 mm	4.02 mm
	Magnification	Infinite	Infinite
	RMS WFE	Diffraction Limited	Diffraction Limited
	Outer Diameter (OD)	6.325 mm	6.325 mm
	Working Distance (WD)	2.39 mm	2.37 mm
	Center Thickness (CT)	3.02 mm	3.036 mm
	Laser Window Thickness	0.250 mm	0.250 mm
	Laser Window Material/Index	PK2 / 1.497	PK2 / 1.497
	Design Objective	Collimate laser light at high magnification.	
	Lens Characteristics	High NA for maximum light capture.	
	Typical Products	Data storage.	
Order Nomenclature	352673A AR Coating 400-600 nm	352671A AR Coating 400-600 nm 352671B AR Coating 600-1050 nm 352671C AR Coating 1050-1600 nm	