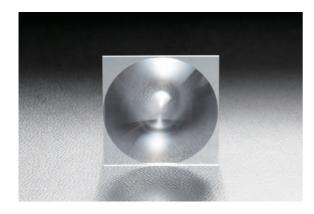
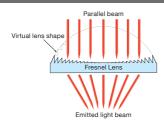


• Since it is processed directly on the acrylic plate of 2mm thickness, it is difficult to be deformed and the performance is stable.

- There are four focal lengths offered from 5mm to 20mm.
- Compared with the lens of the same focal length, it is lighter and lens will not protrude from the edge of holder.



Schematic



Outline Drawing 50%

50:0

Specifications		
Material	Acrylic CLAREX	
Refractive Index	n=1.49	
Focal Length Tolerance	±10% of focal length (in a clear aperture)	

* CLAREX is a registered trademark of Nitto Jushi Kogyo Co., Ltd..

Guide

▶This product is available with different focal lengths and sizes that are not listed on-line or in our catalog. Please contact our Sales Team with your requests.

Attention

- ▶ There is a direction to the Fresnel lens. Surface that is processed is equivalent to convex.
- ▶When used in laser, since diffracted light is generated in the step structure, some of the light will also leaked around the focused spot .
- ▶ Characteristics as the lens is obtained in the range of ϕ 50mm, but it is not guaranteed the accuracy of the focal length out of the scope of the clear aperture.
- ▶When rubbing strongly the processed surface of the fresnel lens, performance may be degraded. Please do not touch directly the
- ▶When exposed to high temperature of 80°C or more, it may be deformed and performance can be severely degraded.
- ▶ Please do not use organic solvents such as acetone and chloroform which will dissolved and damage the step structure.
- ▶ At the time of delivery, it is delivered with a protection sheet affixed to the surface. Please remove this protective sheet before using.

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Biconcave Lenses

Kit

Reasonable Lens

Cylindrical

Others

Specifications				
Part Number	Focal length [mm]	Prism pitch [mm]	Clear Aperture [mm]	
FRL-50S-05P	5	0.05	φ10	
FRL-50S-10P	10	0.05	φ20	
FRL-50S-15P	15	0.05	φ30	
FRL-50S-20P	20	0.08	φ40	