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# -18 to +18 diopters, VIS Coated, Manually Focus-Tunable Lens

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## General

| | |
|---|---|
| **Type:** | Specialty Lens |
| **Lifecycles:** | >100,000 |
| **Model Number:** | ML-20-37 |

## Physical & Mechanical Properties

**Diameter (mm):**

39.50

**Clear Aperture CA (mm):**
20

**Thickness (mm):**
18.60

## Optical Properties

**Substrate:**
Low Dispersion Polymer

**Coating:**
BBAR (400-700nm)

**Wavelength Range (nm):**
400 - 700

**Abbe Number ($v_d$):**
65

**Focus Range (mm):**
-18 to +18 diopter
-55 to +55mm

**Index of Refraction ($n_d$):**
1.38

**Transmitted Wavefront Error, RMS:**
0.25λ @ 525nm

**Damage Threshold, By Design:**
10 kW/cm$^2$ @ 1064nm

**Damage Threshold, CW:**
10 kW/cm$^2$ @ 1064nm

## Threading & Mounting

**Mounting Threads:**
C-Mount (Female)

## Regulatory Compliance

**Certificate of Conformance:**
View

# Product Details

- Manually Adjustable Focal Length
- Concave to Convex Convertible Lens Shape
- BBAR Coating for Increased Performance Across Wavelength Range

Optotune Manually Focus Tunable Lenses are designed to have their lens curvature change between convex, flat, and concave by the rotation of the outer adjustment ring. This allows for the focal length of the lens to be tuned to the precise value required for an optical application. The rotation mechanism is extremely durable, providing a lifecycle greater than 100,000 rotations. Optotune Manually Focus Tunable Lenses provide a simple, cost-effective solution for applications where system parameters are still being decided, such as in system prototyping or R&D applications. These focus tunable lenses can also be used singularly as an adjustable eye relief or as a pair to build a variable beam expander.

**Note:** These lenses should not be stored in the negative focal state for long periods of time, as this can cause bubbles to form in the lens. These bubbles can be cleared by setting the lens to +18dpt for several hours.

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