

8mm CA, Corning® Varioptic® V-PE Series Variable Focus and Astigmatism Liquid Lens Development Kit



Corning® Varioptic® V-PE Series Variable Focus Liquid Lenses



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General

Development Kit **Type:**

Contents of Kit:

Corning® Varioptic® V-PE-80RO-07 Lens
 USB-M Universal (with V-PE connector and USB compatibility)
 USB-B to USB-A Cable
 Visalab Software
 Control Software Documentation Package (USB-Stick)

D-V-PE-80RO-07 **Model Number:**

Typical Applications:

Compact optical systems providing tunable power :
 Sphere, Cylinder and Axis

Physical & Mechanical Properties

Diameter (mm):

27.00 (packaged lens)

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

7.80 (packaged lens) **Thickness (mm):**

Optical Properties

VS **Coating:**

Focus Range (mm):
-12 to +12 diopter (Sphere Only)
-6 to +6 diopter (Sphere using Cylinder)
-5 to 0 diopter (Cylinder Only)

95 @ 587nm **Transmission (%):**

300nm **Transmitted Wavefront Error, RMS:**

Environmental & Durability Factors

+10 to +40 **Operating Temperature (°C):**

-40 to +55 **Storage Temperature (°C):**

Regulatory Compliance

[View](#) **Certificate of Conformance:**

Product Details

- Combine a Liquid Lens with Dedicated, Calibrated Driver Board
- Temperature Compensation and Response Time Optimization Features
- Include Control Software and Documentation Package
- [A-P Series Liquid Lenses](#) Also Available

Corning® Varioptio® A-PE & V-PE Series Variable Focus Liquid Lens Development Kits feature a variable focus liquid lens with a dedicated, calibrated driver board for enhanced performance, temperature compensation, and response time optimization, as well as all necessary cables and control software for operation. The driver board enables advanced features including temperature compensation algorithms, response time optimization for optical power changes, and sweep mode which acquires clear images while the liquid lens is still in motion. The V-PE Series expands on this technology with an 8-electrode design, enabling independent control of spheres at ± 24 diopters of power, cylinders at ± 5 diopters of power, and axis for astigmatism correction without any moving parts, ensuring silent, reliable operation. Corning® Varioptio® A-PE & V-PE Series Variable Focus Liquid Lenses are ideal for use in barcode readers, industrial inspection, medical imaging, and biometrics applications and are fully compatible with the [AF Explorer Camera](#) for plug-and-play operation. Also included in the development kit is a documentation package with additional application information.