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# 4X, Coherent® CO<sub>2</sub> Beam Expander

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CO<sub>2</sub> Beam Expanders

Stock **#11-364** **5 In Stock**

S\$1,414.<sup>00</sup>

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Volume Pricing	
Qty 1-4	S\$1,414.00 each
Qty 5-9	S\$1,274.00 each
Qty 10-24	S\$1,127.00 each
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Product Downloads

**General**

Beam Expander **Type:**

Fixed Magnification **Style:**

**Physical & Mechanical Properties**

**Length (mm):**

56.82

Weight (g):

58

Housing Diameter (mm):

30.48

### Optical Properties

Entrance Aperture (mm):

11.43

Exit Aperture (mm):

22.86

Expansion Power:

4X

Substrate:

Zinc Selenide (ZnSe)

Transmission (%):

>99.4

Angle of Incidence (°):

0

Coating:

High-Efficiency Anti-Reflective Coating (10.6µm)

Design Wavelength DWL (nm):

10600

Wavelength Range (nm):

10400 - 10600

Coating Specification:

R<sub>abs</sub> <0.2% @ 10.6µm

Divergence Adjustment:

Rotating Optics

### Threading & Mounting

Mounting Threads:

Input: Male M25 x 1

### Regulatory Compliance

RoHS 2015:

Compliant

Reach 224:

Compliant

Certificate of Conformance:

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## Product Details

- Designed for CO<sub>2</sub> Laser Sources at 10.6µm
- Compact Housing for Easy System Integration
- Coherent® Infrared ZnSe Optical Elements

Coherent® CO<sub>2</sub> Beam Expanders are designed to collimate and improve the energy distribution of high power CO<sub>2</sub> laser beams. Featuring premier grade Zinc Selenide (ZnSe) optical elements from Coherent®, these beam expanders provide minimum beam deviation and greater than 99.4% transmission at 10.6µm. A high-efficiency anti-reflective coating on the ZnSe substrates results in reflectance less than 0.2% per surface and absorbance less than 0.1% per surface at 10.6µm. Coherent® CO<sub>2</sub> Beam Expanders feature a compact housing design with M25 input threading for easy integration into CO<sub>2</sub> laser systems. For additional expansion power options, please [contact us](#).

**Note:** II-VI Incorporated is now Coherent Corp.

## Special Handling

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. Explore our [Optics Cleaning Resources](#) for step-by-step guides and best practices. For personalized assistance, [Email us](#) or [Chat](#) with our technical support team.



Component Handling Tools