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5X, Coherent® CO₂ Beam Expander

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CO₂ Beam Expanders

Stock #11-365 **5 In Stock**

⊖ 1 ⊕ **A\$1,616⁰⁰**

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Volume Pricing	
Qty 1-4	A\$1,616.00 each
Qty 5-9	A\$1,456.00 each
Qty 10-24	A\$1,288.00 each
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General

Beam Expander **Type:**

Fixed Magnification **Style:**

Physical & Mechanical Properties

Length (mm):

57.58

Weight (g):

59

Housing Diameter (mm):

30.48

Optical Properties

Entrance Aperture (mm):

11.43

Exit Aperture (mm):

22.86

Expansion Power:

5X

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_{abs} <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:

[View](#)

Product Details

- Designed for CO₂ Laser Sources at 10.6µm
- Compact Housing for Easy System Integration
- Coherent® Infrared ZnSe Optical Elements

Coherent® CO₂ Beam Expanders are designed to collimate and improve the energy distribution of high power CO₂ 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® CO₂ Beam Expanders feature a compact housing design with M25 input threading for easy integration into CO₂ 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