



LA VISION

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12x Zoom Lens System

high magnification and
12x zoom range



Features

- ▶ high 12X magnification (0.58 - 7X) lens system
- ▶ zoom lens with wide field coverage
- ▶ increased resolution with 0.018 - 0.1 N.A.
- ▶ variable working distance from 37 to 341 mm
- ▶ field of view from 0.29 mm to 75.9 mm with attachments
- ▶ unmatched edge flatness and clarity
- ▶ works with any current format cameras

Flexible by Design

The 12X **Zoom Lens System** is designed on a modular basis, offering optical quality and mechanical flexibility. This interchangeable design, combined with a wide range of lens adapters and attachments, allows you to easily choose the magnification, field of view and working distance that suits your viewing needs best.

Unbeatable Accuracy

This 12X **Zoom Lens System** delivers unbeatable accuracy and repeatability for even the toughest applications. Superb optics deliver remarkably high contrast, high resolution video images. The 12:1 zoom ratio provides an incredible magnification range which allows both, high magnification for precision measurement and inspection, as well as low magnification for a wider field of view.

Applications

- ▶ Spray Analysis
- ▶ Strain & Stress Measurements
- ▶ Materials Testing
- ▶ Particle Sizing

The **Zoom Lens System's** modularity enables a huge amount of combinations of components so that the following tables give details about the most typical data only.

In case you require different magnifications and/or working distances please contact us.

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The standard set of this lens system consists of :
 Zoom Lens 12x with 12 mm fine adjustment range
 C-mount coupler for connecting a camera
 2 types of adapters :

- A 1x
- A 2x
- Standard lens attachment: L 2 x
- Optional additional lens attachments: L 0.25 x
- L 0.5 x

Combinations of the **Zoom Lens** with these components give this performance

| Lens attachment | Working distance in mm | Camera format | A 1x Field of view Low - High | A 2x Field of view Low - High | Resolution in μm Low - High | Depth of field in mm Low - High |
|-----------------|------------------------|------------------------------|---|--|--|---------------------------------|
| L 0,25 x | 341 | Mag. 1/2" CCD 2/3" CCD | 0.15 - 1.75 55.2 - 4.6 mm 75.9 - 6.3 mm | 0.29 - 3.5 27.6 - 2.3 mm 37.9 - 3.1 mm | 33.3 - 6.7 | 20 - 0.8 |
| L 0,5 x | 165 | Mag. 1/2" CCD 2/3" CCD | 0.29 - 3.5 27.6 - 2.3 mm 37.9 - 3.1 mm | 0.58 - 7.0 13.8 - 1.1 mm 19.0 - 1.6 mm | 18.5 - 3.3 | 6.2 - 0.2 |
| Without | 86 | Mag. 1/2" CCD 2/3" CCD | 0.58 - 7.0 13.8 - 1.2 mm 19.0 - 1.6 mm | 1.16 - 14 6.9 - 0.6 mm 9.5 - 0.8 mm | 9.3 - 1.7 | 1.4 - 0.05 |
| L 2 x | 37 | Mag. 1/2" CCD 2/3" CCD | 1.16 - 14 6.9 - 0.6 mm 9.5 - 0.8 mm | 2.3 - 28 3.5 - 0.3 mm 4.8 - 0.4 mm | 4.5 - 0.8 | 0.3 - 0.01 |

How to read the table?

The **Zoom Lens** without any lens attachment and with the 1x tube adapter is connected to a compact SVGA camera.

Example

The actual magnification range is 0.58 times (in the low mag. position of the zoom lens) to 7 times (in high mag. setting). The camera ,sees' an area of interest of 13.8 mm diagonally (in low mag. setting) to 1.2 mm (in high mag. setting). At high magnification the smallest resolvable detail is 1.7 μm and the depth of field is 0.05 mm. The working distance is fixed at 86 mm.

Ordering Information

| Part number | Description |
|-------------|-------------------------------------|
| 1108548 | Zoom Lens System |
| 1001895 | additional lens attachment L 0.25 x |
| 1001896 | additional lens attachment L 0.5 x |
| 1001897 | standard lens attachment L 2 x |

Data provided by LaVision are believed to be true. However, no responsibility is assumed for possible inaccuracies or omissions. All data are subject to change without notice

Apr-14

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