

MACRO VIDEO ZOOM LENS (18-108, F/2.5)

FOR VIDEO APPLICATIONS REQUIRING LARGER FIELDS-OF-VIEW

MACRO VIDEO ZOOM LENS

Optem International announces the new 18-108 Macro Video Zoom Lens which is designed to attach directly to a video camera. This is the ideal optical solution for those applications requiring large fields-of-view.

This unique lens includes a special "close-up" lens that allows it to function with a working distance as close as 5.5–11 inches. When the "close-up" lens is removed, it will function from 11" out to infinity.

FEATURES/ADVANTAGES

Optem International currently offers a complete line of higher-magnification Zoom Optical Systems providing the utmost in modularity and

flexibility, and imaging precision.

There are however, specific applications that demand larger fields-of-view, and the Macro Video Zoom Lens delivers just that...and more:

⊕ **Parfocality** – Maintain focus throughout the entire zoom range.

⊕ **Longer Working Distances** – View a variety of specimens from 5.5 inches out through infinity.

⊕ **Magnification** – With "close-up" lens = 1.0X – 0.066X.
Without "close-up" lens = 0.47X – 0.084X

⊕ **Compatibility** – Works with virtually all single chip, C-Mount video cameras. 2/3" camera format or smaller recommended.



MACRO VIDEO ZOOM LENS
Catalog No. 34-11-10

MACRO VIDEO ZOOM LENS SPECIFICATIONS

Working Distance

"close-up" lens5.5 - 11"
 w/o "close-up" lens11" - ∞

Focal Length18 - 108 mm

Aperture.....F/2.5 - Closed

Magnification w/close-up lens

@Max. WD:.....0.066 - 0.4X

@Min. WD:.....0.17 - 1.0X

Zoom Ratio.....6:1 (parfocal)

Focus.....External, Manual w/ locking screw

Zoom Control.....External, Manual

Video Mount.....C-Mount

Camera Format.....2/3" or smaller

Weight.....1 lb., 3 oz.

Length.....159 mm

Diameter.....62 mm maximum

FIELDS-OF-VIEW (F.O.V.)*

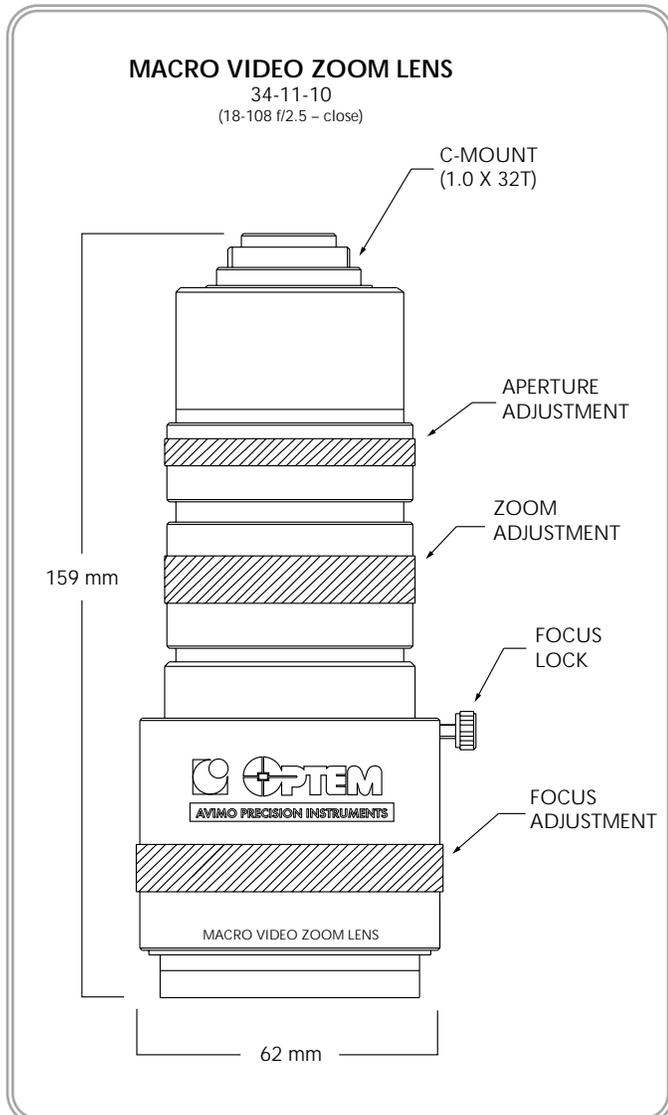
"Close-Up" Lens

Working Distance	F.O.V. (mm) @ Low Mag.	F.O.V. (mm) @ High Mag.
5.5"	38 x 51	6 x 8
7"	60 x 80	10 x 14
8"	72 x 96	12 x 16
9"	83 x 110	14 x 19
10"	90 x 120	16 x 22
11"	100 x 133	17 x 23

Without "Close-Up" Lens

Working Distance	F.O.V. (mm) @ Low Mag.	F.O.V. (mm) @ High Mag.
11"	79 x 105	14 x 19
24"	198 x 264	33 x 44
36"	311 x 415	55 x 73
48"	415 x 553	70 x 93

* Based upon a 2/3" camera format. For 1/2" camera format, multiply F.O.V. x 0.72. For 1/3" camera format multiply F.O.V. x 0.54.



INNOVATIVE OPTICAL SOLUTIONS

Optem International is known worldwide as The Leader In Zoom Technology. Regardless of your optical system requirements, Optem has your solution. We pride ourselves in developing innovative microscope-type optical systems for a variety of applications. Our optical systems are typically used by industrial, medical and semiconductor manufacturers, wherever video microscopy is required.

The next time you find yourself looking for a unique optical solution, contact Optem International and put our optical engineers to work for you.



Changing The Way The World Views Microscopes

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