

Liquid-Lens Autofocus lenses

LS-LAF series · Machine vision lenses · 4 models

1", 10 MP, C-mount Liquid-Lens Autofocus Lens. Liquid-lens 16 mm autofocus lens for 1.1" sensors (10 MP) driven by the passive random-access autofocus algorithm, focusing in under 0.8 s on objects of unknown size, with ROI focus and depth-of-field merging.

Features

- Super speed: autofocus in <0.8 s
- passive autofocus algorithm: no coding/decoding, no initial focus, fast focus on unknown-size incoming objects
- ROI (region of interest) focusing
- DOF combination: multiple depth-of-field images merged into one clear picture
- Compact, lower cost and larger FOV than ToF laser-assisted autofocus
- Real algorithm-based autofocus
- Quick: one command or key press completes autofocus
- Accurate: consistent focus every time



Applications

- Automotive parts of various sizes
- Medical production lines
- Dust-free environments
- Restricted production lines without manual focusing
- Industrial machine vision inspection

Common specifications

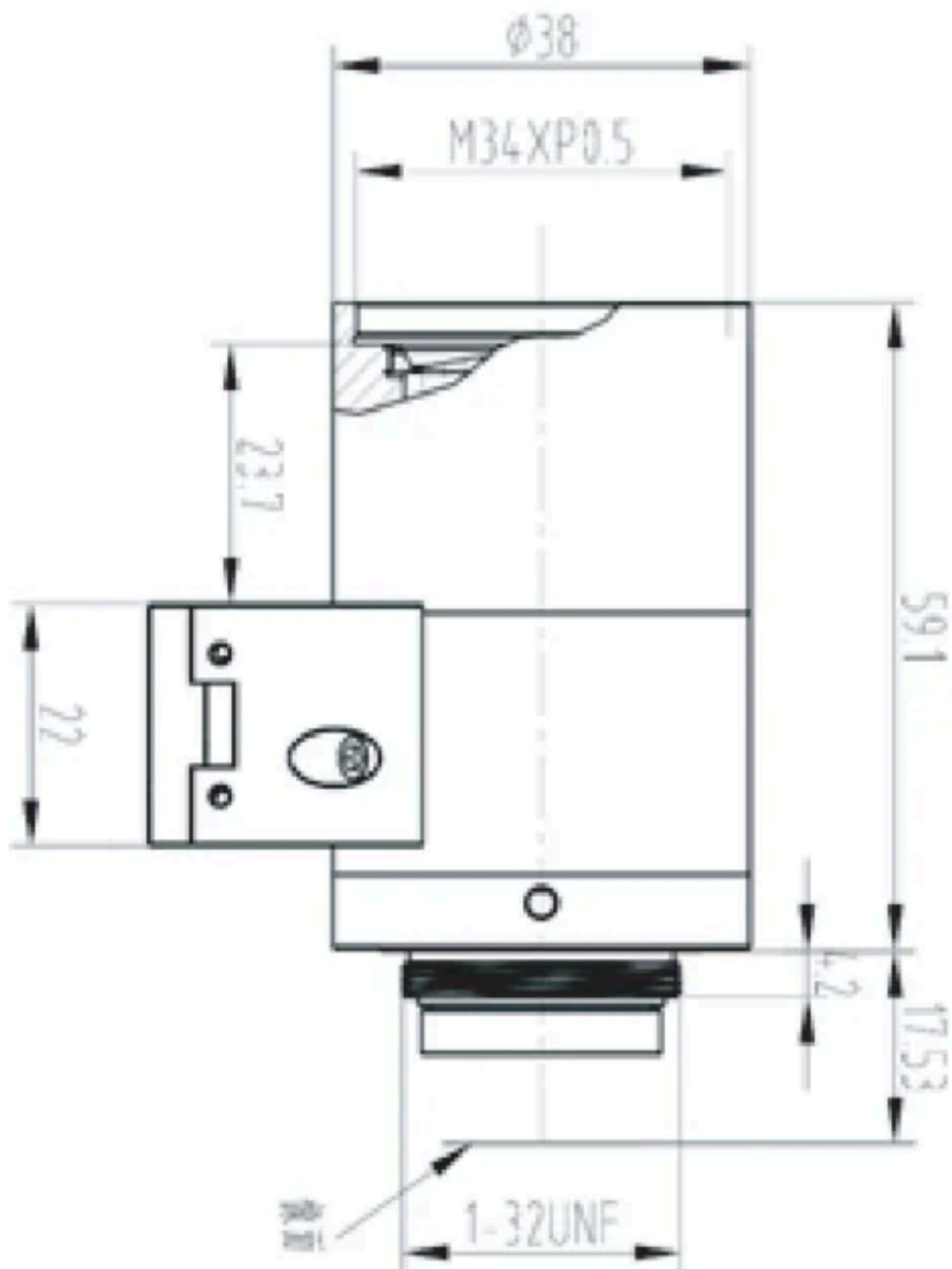
Wavelength	visible
Mount	C
Connector	Micro
Input voltage	4.5–5.5 V
Input current	<50 mA
Autofocus time	<0.8 s
Sensor resolution	10 MP
Iris	Fixed
Focus control	Motorized

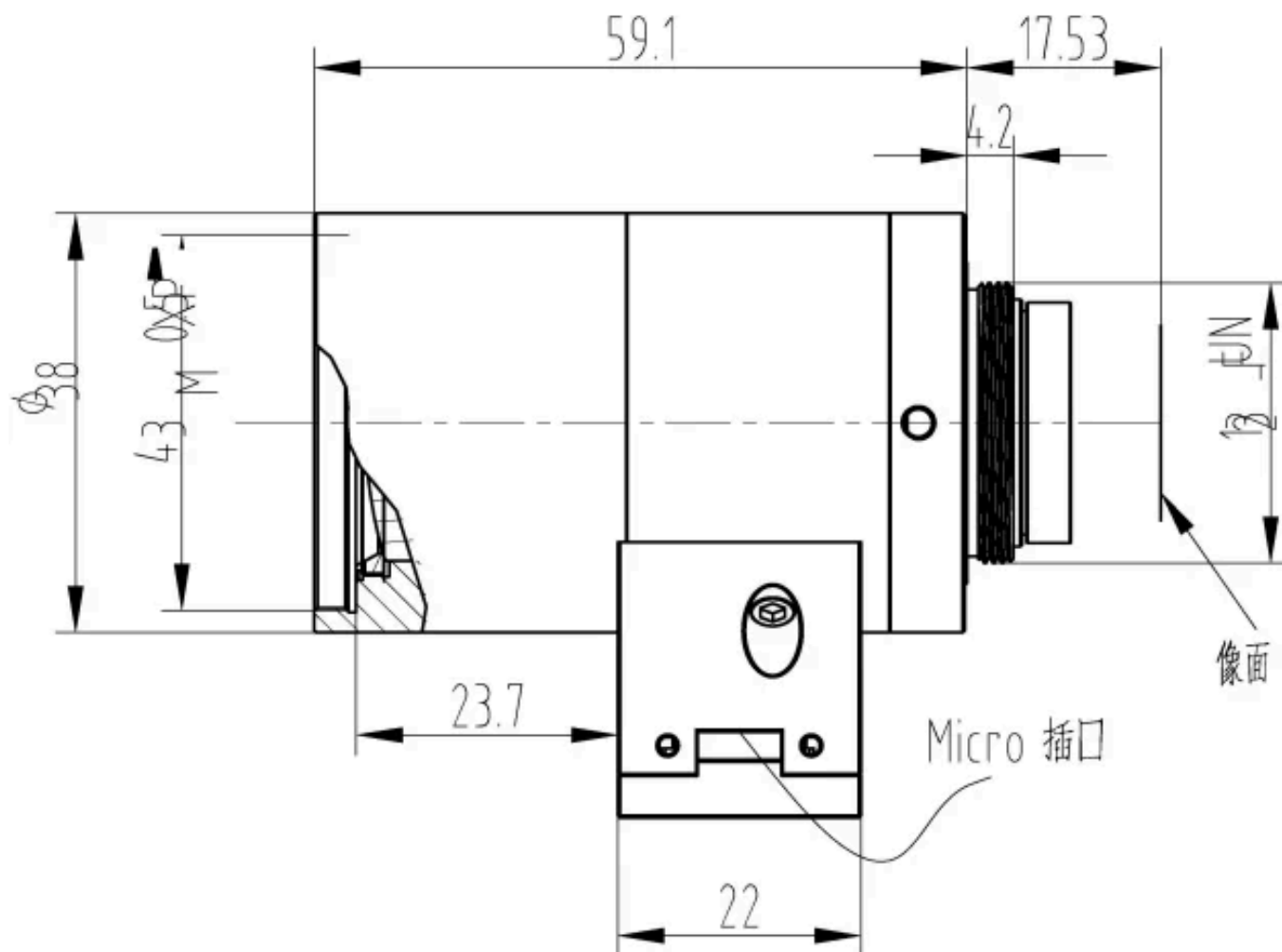
Models

Model	Image size	Focal length	Effective working distance	Aperture	Distortion	Resolution	Angle of view (2/3", DxHxV)
LS-S11AF-L-1640-10M	1.1"	16 mm	100 mm - inf.	F4	<2%	0.3 > @140 lp/mm	37.7 x 29.3 x 24.6 deg
LS-S11AF-L-1856-10M	dia. 17.6 mm	18 mm	100-2000 mm	F5.6	<0.5%	0.3 > @125 lp/mm	27 x 21.6 x 16.3 deg
LS-S11AF-L-3563-10M	dia. 17.6 mm	35 mm	250-1000 mm	F6.3	<0.2%	0.3 > @110 lp/mm	16.8 x 13 x 10.9 deg
LS-S12AF-L-7587-10M	dia. 19 mm	75 mm	250-400 mm	F8.7	<0.5%	0.3 > @75 lp/mm	11.8 x 9.9 x 6.5 deg

More values per model (Best working distance, Angle of view (1.1", DxHxV), Size, Alias, Filter thread, Suggested working distance, Recommended working distance, Angle of view (1.2", DxHxV), Angle of view (1", DxHxV)) are on each product page.

Dimensions





Product views

