



6.5X High-Resolution Zoom Lens

LZ-650104

LZ-650104 PRODUCT INTRODUCTION

- Professional optical design with 0.7X-4.5X optical magnification and a 6.5:1 zoom ratio.
- Supports a wide field of view with a 2/3-inch camera.
- Compact structure for convenient integration and installation.

APPLICATIONS

Suitable for semiconductor inspection, industrial automation, electronic communications and other machine vision applications.

PERFORMANCE OVERVIEW

DETENTED MAGNIFICATION

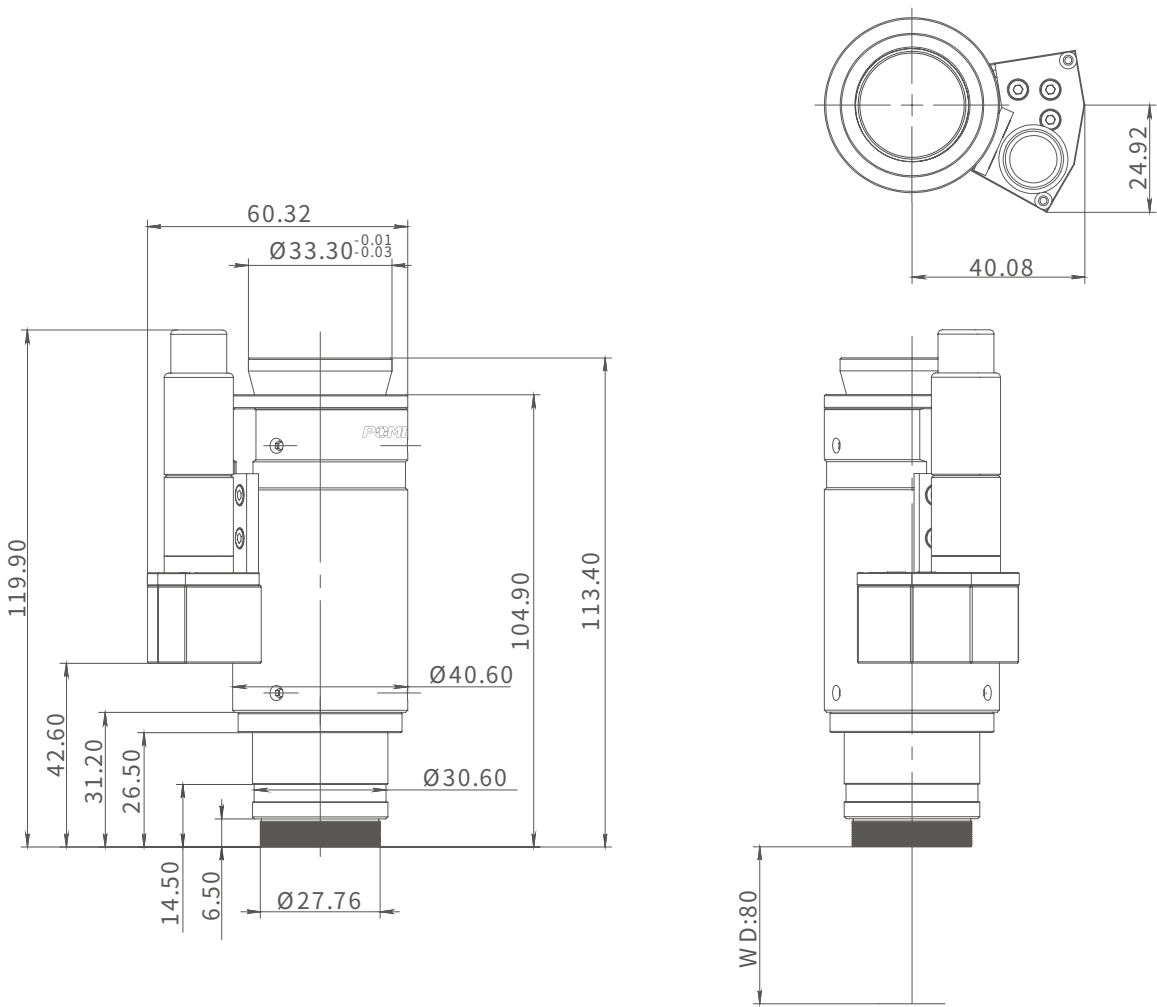
- High-speed zooming and focusing with high repeatability. Imported DC servo motor with closed-loop control.
- Single- or dual-axis control through a 9-pin RS232 interface.
- Stable mechanical performance in demanding vibration environments.

FINE-FOCUS DEVICE

- Fully integrated motorized control systems are available for POMEAS zoom lenses.
- Single- or dual-axis control through RS232 or USB.
- Low-level software code can be supplied for OEM platforms.

LZ-650104			TECHNICAL SPECIFICATIONS							
Model		LZ-650104								
Category		Motorized Zoom Lens								
Optical Magnification		0.7X-4.5X								
Working Distance		82+/-2 mm								
Magnification		0.7X	1.0X	1.5X	2.0X	2.5X	3.0X	3.5X	4.0X	4.5X
Telecentricity (deg.)		0.68	0.185	0.7	1.075	0.8	0.75	0.7	0.81	0.87
DOF (mm)		1.9	0.952	0.44	0.29	0.23	0.16	0.13	0.12	0.1
N.A.		0.03	0.042	0.06	0.07	0.07	0.085	0.085	0.085	0.085
F.No.		11.6	12.1	12.5	14.2	17.8	17.6	20.5	23.5	26.5
Resolution (um)		11.18	7.99	5.59	4.79	4.79	3.95	3.95	3.95	3.95
TV Distortion		0.019%	0.035%	0.002%	0.003%	0.004%	0.001%	0.001%	0.002%	0.002%
FOV (mm) D x H x V	2/3 Inch	15.71 x 12.57 x 9.43	11.00 x 8.80 x 6.60	7.33 x 5.87 x 4.40	5.50 x 4.40 x 3.30	4.40 x 3.52 x 2.64	3.67 x 2.93 x 2.20	3.14 x 2.51 x 1.89	2.75 x 2.20 x 1.65	2.44 x 1.96 x 1.47
	1/2 Inch	11.43 x 9.14 x 6.86	8.00 x 6.40 x 4.80	5.33 x 4.27 x 3.20	4.00 x 3.20 x 2.40	3.20 x 2.56 x 1.92	2.67 x 2.13 x 1.60	2.29 x 1.83 x 1.37	2.00 x 1.60 x 1.20	1.78 x 1.42 x 1.07
	1/3 Inch	8.57 x 6.86 x 5.14	6.00 x 4.80 x 3.60	4.00 x 3.20 x 2.40	3.00 x 2.40 x 1.80	2.40 x 1.92 x 1.44	2.00 x 1.60 x 1.20	1.71 x 1.37 x 1.03	1.50 x 1.20 x 0.90	1.33 x 1.07 x 0.80
Max. Sensor Size		2/3 Inch								
Mount		C-Mount								
Zoom Mode		Motorized Zoom								
Focus Adjustment		/								

LZ-650104	DIMENSIONS
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Unit: mm	Scale: 2:3	Model	LZ-650104
View	Weight: 0.067 kg	Name	
		Date	2019/08/20



MOTORIZED ZOOM LENS

MOTOR WIRING

PIN	DESCRIPTION
1	Motor Winding Negative
2	GND
3	Motor Winding Positive
4	Encoder Output Channel A
5	N/C
6	Encoder Power Input (+5 V)
7	N/C
8	Encoder Output Channel B
9	N/C

