

6.5×High-Resolution Zoom Lens

PMS-6805-K

Products

◆ Professional Optical Path Design, Optical Magnification From 0.7×-4.5×Zoom Ratio 6.5:1;

◆ Based On 1" Camera, Can Achieve Large field Of View Observation

◆ Compact Design, Easy To Integrate And Install

Application Cases

It can be used in semiconductor, automation, electronic communication and other industries.

6.5× High-Resolution Zoom Lens

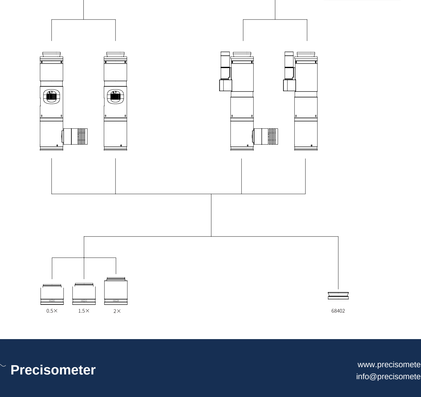
Magnification Range		0.7×-4.5×								
Working Distance(mm)		88±2mm								
Magnification		0.7×	1×	1.5×	2×	2.5×	3×	3.5×	4×	4.5×
DOF(mm)		2.04	1.05	0.50	0.30	0.20	0.15	0.11	0.09	0.07
N.A.		0.028	0.038	0.053	0.066	0.079	0.09	0.101	0.112	0.122
F.NO.		12.46	13.13	14.14	15.16	15.86	16.71	17.35	17.84	18.32
Resolution(μm)		11.98	8.83	6.33	5.08	4.25	3.73	3.32	3.00	2.75
TV Distortion		<0.02%	<0.02%	<0.02%	<0.02%	<0.02%	<0.03%	<0.04%	<0.05%	<0.06%
FOV(mm)	1"	22.86×18.29×13.71	16.00×12.80×9.60	10.67×8.53×6.40	8.00×6.40×4.80	6.40×5.12×3.84	5.33×4.27×3.20	4.57×3.66×2.74	4.00×3.20×2.40	3.56×2.84×2.13
	2/3"	15.71×12.57×9.43	11×8.8×6.6	7.33×5.87×4.40	5.50×4.40×3.30	4.40×3.52×2.64	3.67×2.93×2.20	3.14×2.51×1.89	2.75×2.20×1.65	2.44×1.96×1.47
	1/2"	11.43×9.14×6.86	8×6.4×4.8	5.33×4.27×3.20	4.00×3.20×2.40	3.20×2.56×1.92	2.67×2.13×1.60	2.29×1.83×1.37	2.00×1.60×1.20	1.78×1.42×1.07
	1/3"	8.57×6.86×5.14	6×4.8×3.6	4.00×3.20×2.40	3.00×2.40×1.80	2.40×1.92×1.44	2.00×1.60×1.20	1.71×1.37×1.03	1.50×1.20×0.90	1.33×1.07×0.80
Max.Sensor Size		1"								
Total Length(mm)		264								
Zooming Method		Manual & Electric								
Mount		C-Mount								

6.5× High-Resolution Zoom Lens Field Of View Cross-reference

Adapter Lens	WD (mm)	N.A		Resolution(μm)		Total Magnification	0.5×		0.7×		1×		1.5×		2×	
		Working Distance	Image Circle	Working Distance	Image Circle		Working Distance	Image Circle	Working Distance	Image Circle	Working Distance	Image Circle	Working Distance	Image Circle	Working Distance	Image Circle
						Combined magnification	0.0875×	0.0625×	0.1225×	0.0875×	0.175×	0.125×	0.2625×	0.1875×	0.35×	0.25×
						DOF(mm)	65.31	2.37	46.65	1.69	32.65	1.19	21.77	0.79	16.33	0.59
0.25×	-	0.007	0.03×	47.50	11.18	FOV (mm) 1/2"	91.4×73.1×54.9	14.2×11.4×8.5	63.3×52.2×39.2	10.2×8.1×6.1	45.7×36.6×27.4	7.1×5.7×4.3	30.5×24.4×18.3	4.7×3.8×2.8	22.9×18.3×13.7	3.6×2.8×2.1
						2/3"	-	-	89.8×71.8×53.9	4.0×11.2×8.4	62.9×50.3×37.7	9.8×7.8×5.9	42.9×33.5×25.1	6.5×5.2×3.9	31.4×25.1×18.9	4.9×3.9×2.9
						1"	-	-	-	-	91.4×73.1×54.9	14.2×11.4×8.5	61.0×48.8×36.6	9.5×7.6×5.7	45.7×36.6×27.4	7.1×5.7×4.3
						4/3"	-	-	-	-	-	-	81.1×64.9×48.7	12.6×10.1×7.6	60.9×48.7×36.5	9.5×7.6×5.7
						32(mm)	-	-	-	-	-	-	-	-	91.4×73.1×54.9	14.2×11.4×8.5
						Combined magnification	0.175×	1.125×	0.245×	1.575×	0.35×	2.25×	0.525×	3.375×	0.7×	4.5×
						DOF(mm)	16.33	0.59	11.66	0.42	8.16	0.30	5.44	0.20	4.08	0.15
0.5×	145.8	0.014	0.06×	23.96	5.59	FOV (mm) 1/2"	5.7×36.6×27.4	7.1×5.7×4.3	32.7×26.1×19.6	5.1×4.1×3.0	22.9×18.3×13.7	3.6×2.8×2.1	15.2×12.2×9.1	2.4×1.9×1.4	11.4×9.1×6.9	1.8×1.4×1.1
						2/3"	-	-	44.9×35.9×26.9	7.0×5.6×4.2	31.4×25.1×18.9	4.9×3.9×2.9	21.0×16.8×12.6	3.3×2.6×2.0	15.7×12.6×9.4	2.4×2.0×1.5
						1"	-	-	-	-	45.7×36.6×27.4	7.1×5.7×4.3	30.5×24.4×18.3	4.7×3.8×2.8	22.9×18.3×13.7	3.6×2.8×2.1
						4/3"	-	-	-	-	-	-	40.6×32.5×24.3	6.3×5.0×3.8	30.4×24.3×18.3	4.7×3.8×2.8
						32(mm)	-	-	-	-	-	-	-	-	45.7×36.6×27.4	7.1×5.7×4.3
						Combined magnification	0.2625×	1.6875×	0.3675×	2.3625×	0.525×	3.375×	0.7875×	5.0625×	1.05×	6.75×
						DOF(mm)	7.26	0.26	5.18	0.19	3.63	0.13	2.42	0.09	1.81	0.07
0.75×	-	0.021	0.09×	15.98	3.73	FOV (mm) 1/2"	0.5×24.4×18.3	4.7×3.8×2.8	21.8×17.4×13.1	3.4×2.7×2.0	15.2×12.2×9.1	2.4×1.9×1.4	10.2×8.1×6.1	1.6×1.3×0.9	7.6×6.1×4.6	1.2×0.9×0.7
						2/3"	-	-	29.9×23.9×18.0	4.7×3.7×2.8	21.0×16.8×12.6	3.3×2.6×2.0	14.0×11.2×8.4	2.2×1.7×1.3	10.5×8.4×6.3	1.6×1.3×1.0
						1"	-	-	-	-	30.5×24.4×18.3	4.7×3.8×2.8	20.3×16.3×12.2	3.2×2.5×1.9	15.2×12.2×9.1	2.4×1.9×1.4
						4/3"	-	-	-	-	-	-	27.0×21.6×16.2	4.2×3.4×2.5	20.3×16.2×12.2	3.2×2.5×1.9
						32(mm)	-	-	-	-	-	-	-	-	30.5×24.4×18.3	4.7×3.8×2.8
						Combined magnification	0.35×	2.25×	0.49×	3.15×	0.7×	4.5×	1.05×	6.75×	1.05×	1.4×
						DOF(mm)	4.08	0.15	2.92	0.11	2.04	0.07	1.36	0.05	1.81	0.02
1×	88	0.028	0.12×	11.98	2.80	FOV (mm) 1/2"	2.9×18.3×13.7	3.6×2.8×2.1	16.3×13.1×9.8	2.5×2.0×1.5	11.4×9.1×6.9	1.8×1.4×1.1	7.6×6.1×4.6	1.2×0.9×0.7	7.6×6.1×4.6	5.7×4.6×3.4
						1"	-	-	22.4×18.0×13.5	3.5×2.8×2.1	15.7×12.6×9.4	2.4×2.0×1.5	10.5×8.4×6.3	1.6×1.3×1.0	10.5×8.4×6.3	7.9×6.3×4.7
						4/3"	-	-	-	-	22.9×18.3×13.7	3.6×2.8×2.1	15.2×12.2×9.1	2.4×1.9×1.4	15.2×12.2×9.1	11.4×9.1×6.9
						32(mm)	-	-	-	-	-	-	20.3×16.2×12.2	3.2×2.5×1.9	20.3×16.2×12.2	15.2×12.2×9.1
						Combined magnification	0.525×	3.375×	0.735×	4.725×	1.05×	6.75×	1.575×	10.125×	2.1×	13.5×
						DOF(mm)	1.81	0.07	1.30	0.05	0.91	0.03	0.60	0.02	0.45	0.02
1.5×	-	0.042	0.18×	7.99	1.86	FOV (mm) 1/2"	5.2×12.2×9.3	2.4×1.9×1.4	10.9×8.7×6.5	1.7×1.4×1.0	7.6×6.1×4.6	1.2×0.9×0.7	5.1×4.1×3.0	0.8×0.6×0.5	3.8×3.0×2.3	0.6×0.5×0.4
						2/3"	-	-	15.0×12.0×9.0	2.3×1.9×1.4	10.5×8.4×6.3	1.6×1.3×1.0	7.0×5.6×4.2	1.1×0.9×0.7	5.2×4.2×3.1	0.8×0.7×0.5
						1"	-	-	-	-	15.2×12.2×9.1	2.4×1.9×1.4	10.2×8.1×6.1	1.6×1.3×0.9	7.6×6.1×4.6	1.2×0.9×0.7
						4/3"	-	-	-	-	-	-	13.5×10.8×8.1	2.1×1.7×1.3	10.1×8.1×6.1	1.6×1.3×0.9
						32(mm)	-	-	-	-	-	-	-	-	15.2×12.2×9.1	2.4×1.9×1.4
						Combined magnification	0.7×	4.5×	0.98×	6.3×	1.4×	9×	2.1×	13.5×	2.8×	18×
						DOF(mm)	1.02	0.04	0.73	0.03	0.51	0.02	0.34	0.01	0.26	0.01
2×	-	0.056	0.24×	5.99	1.40	FOV (mm) 1/2"	3.4×9.1×6.9	1.8×1.4×1.1	8.2×6.5×4.9	1.3×1.0×0.8	5.7×4.6×3.4	0.9×0.7×0.5	3.8×3.0×2.3	0.6×0.5×0.4	2.9×2.3×1.7	0.4×0.4×0.3
						2/3"	-	-	11.2×9.0×6.7	1.7×1.4×1.0	7.9×6.3×4.7	1.2×1.0×0.7	5.2×4.2×3.1	0.8×0.7×0.5	3.9×3.1×2.4	0.6×0.5×0.4
						1"	-	-	-	-	11.4×9.1×6.9	1.8×1.4×1.1	7.6×6.1×4.6	1.2×0.9×0.7	5.7×4.6×3.4	0.9×0.7×0.5
						4/3"	-	-	-	-	-	-	10.1×8.1×6.1	1.6×1.3×0.9	7.6×6.1×4.6	1.2×0.9×0.7
						32(mm)	-	-	-	-	-	-	-	-	11.4×9.1×6.9	1.8×1.4×1.1

Dimension Drawing

unit:mm



Product Selection

unit:mm

