

POMEAS 4K高分辨率变倍镜头系列：
VP-LZH-7501



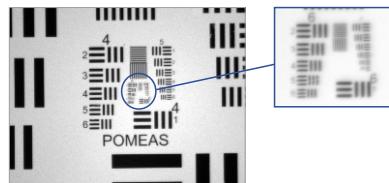
VP-LZH-7501产品介绍

- ◆支持1英寸传感器相机，相比传统镜头在相同的倍率下，视野大小提升1.45X以上
- ◆按更高规格的分辨率要求设计，搭配1英寸相机横向分辨率可达到4K级别
- ◆倍率按0.68X~5X设计，适用于大部分应用场合的检测需求
- ◆模块化设计，多种倍率TV镜管与附加镜可选，另外提供其它功能的模块组件供选配

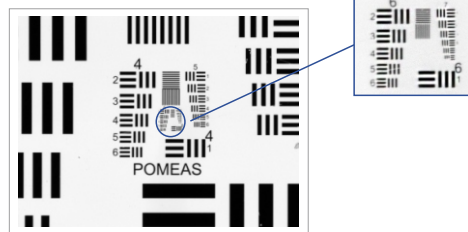
产品应用

广泛应用生物、电子、半导体、机器视觉等高精度行业。

实际效果图



普通变倍镜头5X-棋盘格



4K高分辨率变倍镜头5X-棋盘格

VP-LZH-7501

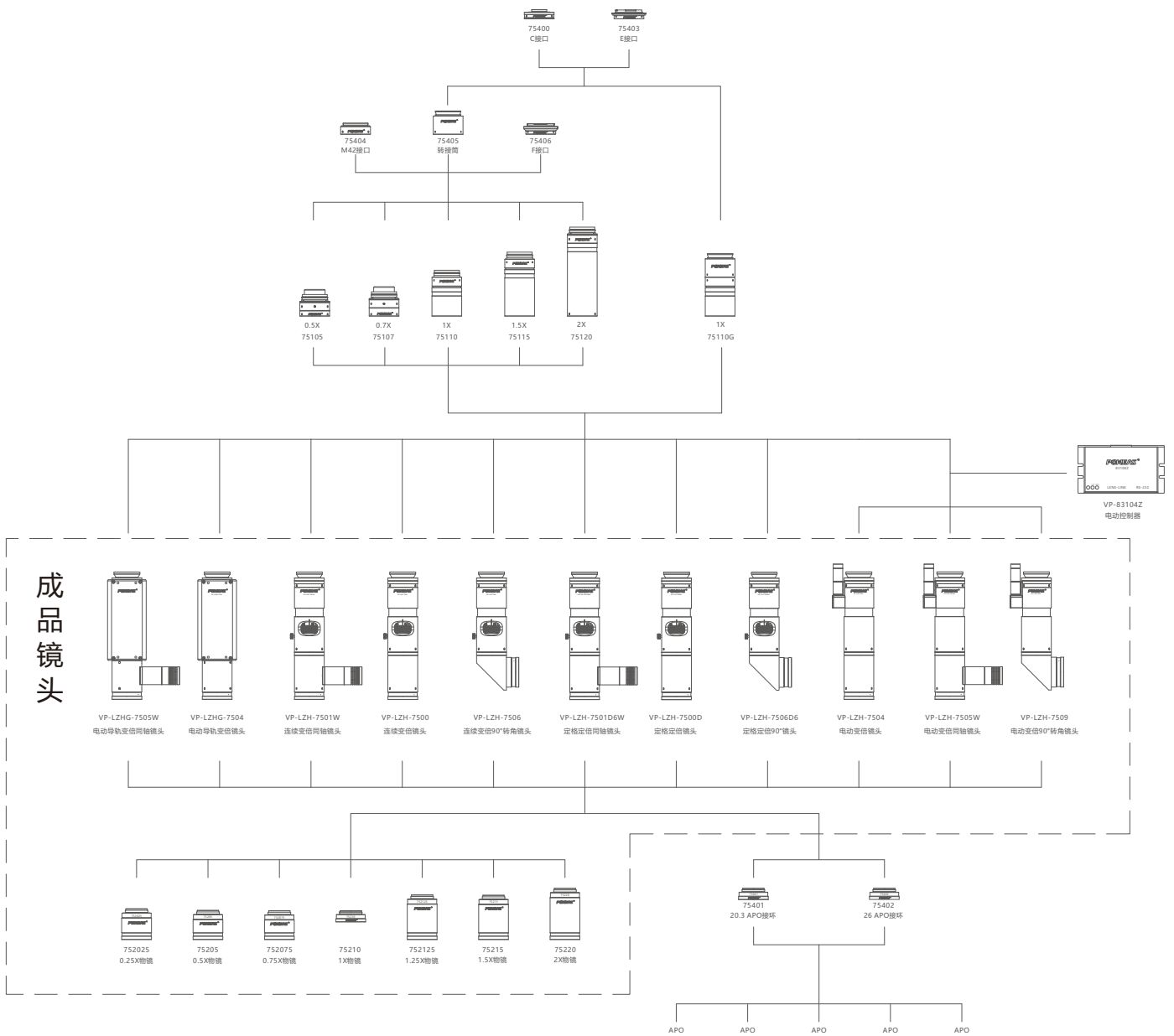
产品参数

型号		VP-LZH-7501					
倍率范围		0.68X~5.0X					
工作距离(mm)		80					
放大倍率		0.68X	1.0X	2.0X	3.0X	4.0X	5.0X
景深(mm)		1.78	0.89	0.25	0.12	0.08	0.07
N.A.		0.033	0.045	0.08	0.11	0.12	0.12
F.NO.		10.3	11.0	12.4	13.5	16.5	20.6
分辨率(μm)		10.17	7.46	4.19	3.05	2.8	2.8
TV畸变		< 0.02%	< 0.02%	< 0.02%	< 0.02%	< 0.02%	< 0.02%
视野大小 (mm)	1"	23.53×18.82×14.12	16.0×12.8×9.6	8.0×6.4×4.8	5.33×4.27×3.2	4.0×3.2×2.4	3.2×2.56×1.92
	2/3"	16.18×12.94×9.71	11.0×8.8×6.6	5.5×4.4×3.3	3.67×2.93×2.2	2.75×2.2×1.65	2.2×1.76×1.32
	1/2"	11.76×9.41×7.06	8.0×6.4×4.8	4.0×3.2×2.4	2.67×2.13×1.6	2.0×1.6×1.2	1.6×1.28×0.96
	1/3"	8.82×7.06×5.29	6.0×4.8×3.6	3.0×2.4×1.8	2.0×1.6×1.2	1.5×1.2×0.9	1.2×0.96×0.72
最大像面		1"					
总长(mm)		328					
变倍方式		手动/电动					
接口类型		C-Mount					



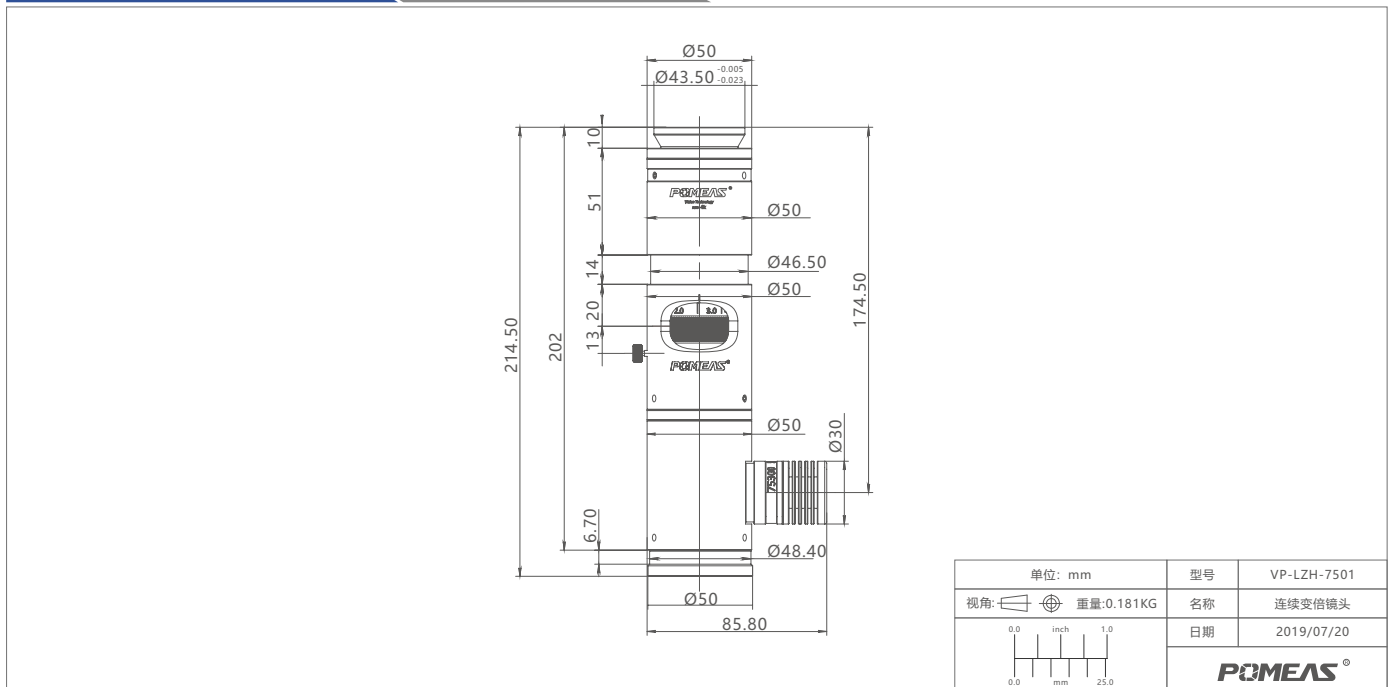
VP-LZH-7501

产品选型图



VP-LZH-7501

产品尺寸



VP-LZH-7501						视场角对照表									
物镜倍率	WD(mm)	NA		物方分辨率 (μm)		镜筒倍率	0.7X		1X		1.5X		2X		
		最低倍	最高倍	最低倍	最高倍		最低倍	最高倍	最低倍	最高倍	最低倍	最高倍	最低倍	最高倍	
0.25X	240	0.0083	0.03	40.67	11.18	综合放大倍率	0.119X	0.857X	0.17X	1.25X	0.255X	1.875X	0.34X	2.5X	
						景深(mm)	40.74	1.52	28.52	1.07	19.01	0.71	14.26	0.53	
						视野大小(D×H×V)(mm)	1/2°	67.2×53.8×40.3	9.1×7.3×5.5	47.1×37.6×28.2	6.4×5.1×3.8	31.4×25.1×18.8	4.3×3.4×2.6	23.5×18.8×14.1	3.2×2.6×1.9
							2/3°	92.4×73.9×55.5	12.6×10.1×7.5	64.7×51.8×38.8	8.8×7.0×5.3	43.1×34.5×25.9	5.9×4.7×3.5	32.4×25.9×19.4	4.4×3.5×2.6
							1°	\	\	94.1×75.3×56.5	12.8×10.2×7.7	62.7×50.2×37.6	8.5×6.8×5.1	47.1×37.6×28.2	6.4×5.1×3.8
							4/3°	\	\	\	\	84.7×67.8×50.8	11.5×9.2×6.9	63.5×50.8×38.1	8.6×6.9×5.2
							32(mm)	\	\	\	\	\	\	94.1×75.3×56.5	12.8×10.2×7.7
32(mm)	\	\	\	\	\	\	\	\							
0.5X	135	0.0165	0.06	20.33	5.59	综合放大倍率	0.238X	1.75X	0.34X	2.5X	0.51X	3.75X	0.68X	5X	
						景深(mm)	10.19	0.38	7.13	0.27	4.75	0.18	3.57	0.13	
						视野大小(D×H×V)(mm)	1/2°	33.6×26.9×20.2	4.6×3.7×2.7	23.5×18.8×14.1	3.2×2.6×1.9	15.7×12.5×9.4	2.1×1.7×1.3	11.8×9.4×7.1	1.6×1.3×1.0
							2/3°	46.2×37.0×27.7	6.3×5.0×3.8	32.4×25.9×19.4	4.4×3.5×2.6	21.6×17.3×12.9	2.9×2.3×1.8	16.2×12.9×9.7	2.2×1.8×1.3
							1°	\	\	47.1×37.6×28.2	6.4×5.1×3.8	31.4×25.1×18.8	4.3×3.4×2.6	23.5×18.8×14.1	3.2×2.6×1.9
							4/3°	\	\	\	\	42.4×33.9×25.4	5.8×4.6×3.5	31.8×25.4×19.1	4.3×3.5×2.6
							32(mm)	\	\	\	\	\	\	47.1×37.6×28.2	6.4×5.1×3.8
32(mm)	\	\	\	\	\	\	\	\							
0.75X	111	0.025	0.09	13.56	3.73	综合放大倍率	0.375X	2.625X	0.51X	3.75X	0.765X	5.625X	1.02X	7.5X	
						景深(mm)	4.53	0.17	3.17	0.12	2.11	0.08	1.58	0.06	
						视野大小(D×H×V)(mm)	1/2°	22.4×17.9×13.4	3.0×2.4×1.8	15.7×12.5×9.4	2.1×1.7×1.3	10.5×8.4×6.3	1.4×1.1×0.9	7.8×6.3×4.7	1.1×0.9×0.6
							2/3°	30.8×24.6×18.5	4.2×3.4×2.5	21.6×17.3×12.9	2.9×2.3×1.8	14.4×11.5×8.6	2.0×1.6×1.2	10.8×8.6×6.5	1.5×1.2×0.9
							1°	\	\	31.4×25.1×18.8	4.3×3.4×2.6	20.9×16.7×12.5	2.8×2.3×1.7	15.7×12.5×9.4	2.1×1.7×1.3
							4/3°	\	\	\	\	28.2×22.6×16.9	3.8×3.1×2.3	21.2×16.9×12.7	2.9×2.3×1.7
							32(mm)	\	\	\	\	\	\	31.4×25.1×18.8	4.3×3.4×2.6
32(mm)	\	\	\	\	\	\	\	\							
1X	80	0.033	0.12	10.17	2.80	综合放大倍率	0.476X	3.5X	0.68X	5X	1.02X	7.5X	1.36X	10X	
						景深(mm)	2.55	0.10	1.78	0.07	1.19	0.04	0.89	0.03	
						视野大小(D×H×V)(mm)	1/2°	16.8×13.4×10.1	2.3×1.8×1.4	11.8×9.4×7.1	1.6×1.3×1.0	7.8×6.3×4.7	1.1×0.9×0.6	5.9×4.7×3.5	0.8×0.6×0.5
							2/3°	23.1×18.5×13.9	3.1×2.5×1.9	16.2×12.9×9.7	2.2×1.8×1.3	10.8×8.6×6.5	1.5×1.2×0.9	8.1×6.5×4.9	1.1×0.9×0.7
							1°	\	\	23.5×18.8×14.1	3.2×2.6×1.9	15.7×12.5×9.4	2.1×1.7×1.3	11.8×9.4×7.1	1.6×1.3×1.0
							4/3°	\	\	\	\	21.2×16.9×12.7	2.9×2.3×1.7	15.9×12.7×9.5	2.2×1.7×1.3
							32(mm)	\	\	\	\	\	\	23.5×18.8×14.1	3.2×2.6×1.9
32(mm)	\	\	\	\	\	\	\	\							
1.5X	45	0.0495	0.18	6.78	1.86	综合放大倍率	0.714X	5.25X	1.02X	7.5X	1.53X	11.25X	2.04X	15X	
						景深(mm)	1.13	0.04	0.79	0.03	0.53	0.02	0.40	0.01	
						视野大小(D×H×V)(mm)	1/2°	11.2×9.0×6.7	1.5×1.2×0.9	7.8×6.3×4.7	1.1×0.9×0.6	5.2×4.2×3.1	0.7×0.6×0.4	3.9×3.1×2.4	0.5×0.4×0.3
							2/3°	15.4×12.3×9.2	2.1×1.7×1.3	10.8×8.6×6.5	1.5×1.2×0.9	7.2×5.8×4.3	1.0×0.8×0.6	5.4×4.3×3.2	0.7×0.6×0.4
							1°	\	\	15.7×12.5×9.4	2.1×1.7×1.3	10.5×8.4×6.3	1.4×1.1×0.9	7.8×6.3×4.7	1.1×0.9×0.6
							4/3°	\	\	\	\	14.1×11.3×8.5	1.9×1.5×1.2	10.6×8.5×6.4	1.4×1.2×0.9
							32(mm)	\	\	\	\	\	\	15.7×12.5×9.4	2.1×1.7×1.3
32(mm)	\	\	\	\	\	\	\	\							
2X	27	0.066	0.24	5.08	1.40	综合放大倍率	0.952X	7X	1.36X	10X	2.04X	15X	2.72X	20X	
						景深(mm)	0.64	0.02	0.45	0.02	0.30	0.01	0.22	0.01	
						视野大小(D×H×V)(mm)	1/2°	8.4×6.7×5.0	1.1×0.9×0.7	5.9×4.7×3.5	0.8×0.6×0.5	3.9×3.1×2.4	0.5×0.4×0.3	2.9×2.4×1.8	0.4×0.3×0.2
							2/3°	11.6×9.2×6.9	1.6×1.3×0.9	8.1×6.5×4.9	1.1×0.9×0.7	5.4×4.3×3.2	0.7×0.6×0.4	4.0×3.2×2.4	0.6×0.4×0.3
							1°	\	\	11.8×9.4×7.1	1.6×1.3×1.0	7.8×6.3×4.7	1.1×0.9×0.6	5.9×4.7×3.5	0.8×0.6×0.5
							4/3°	\	\	\	\	10.6×8.5×6.4	1.4×1.2×0.9	7.9×6.4×4.8	1.1×0.9×0.6
							32(mm)	\	\	\	\	\	\	11.8×9.4×7.1	1.6×1.3×1.0
32(mm)	\	\	\	\	\	\	\	\							

