

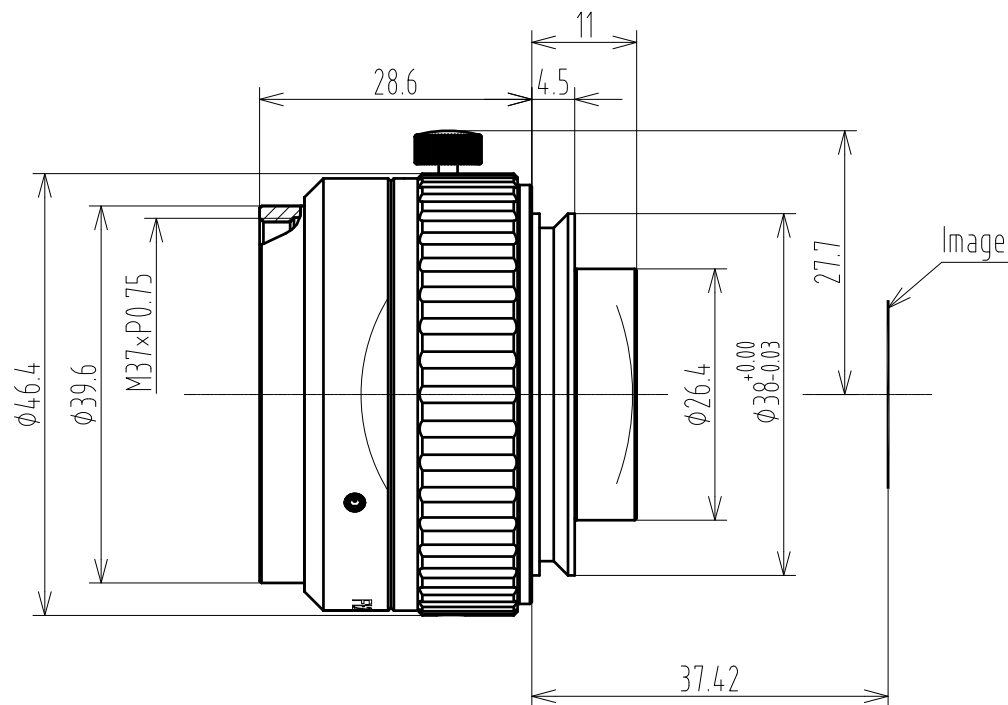


A

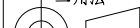
B

(

D



Main Specification			
Magnification	0.04 X	0.08 X	0.1 X
Working Distance	1008.49±5	508.49±5	408.49±5
Image Distance	25.23±2.5	26.84±2.5	27.64±2.5
Conjugate Distance	1072.89±9	574.5±9	475.31±9
Flange Focal Distance	35.81±0.5	37.42±0.5	38.22±0.5
EFL	35		
Max image	ø30		
F/#	4.5		
TV Distortion	<0.05%	<0.01%	<0.03%
Illumination	80%		
IMAGE QUALITY			
AXIS	0.7F		
125lp/mm	100lp/mm		

					TOLERANCE : LINEARITY TOLERANCES ±0.05 ANGULAR TOLERANCES ARE±30' DRAFT ANGLES ARE±0.5°/SIDE			材 料 (环 保)	单 位	比 例	
									mm	1:1	
					设 计	朱周德	2015-03-02	名 称	LS3508A规格图		页 码
					校 对						1/1
					审 核						版 本
标记	处数	更改文件号	担当	变更日期	批 准			代 号	LS3508A-SPEC		V0

LS3508A Lens Datasheet



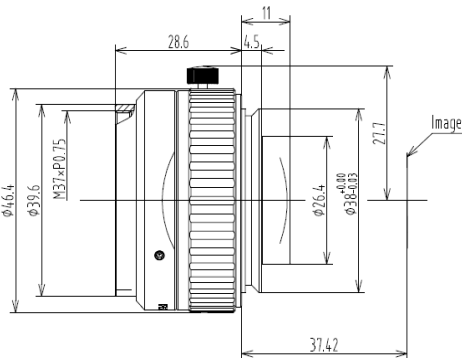
LS3508A 0.08x Lens

LS3508A

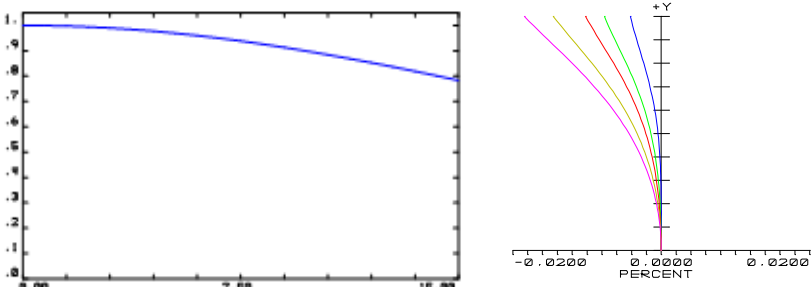
匹配2K&4K相机，可在400nm-700nm波段使用

LS3508A提供可调节光圈，F#为4.5-16，其中重要的光圈位置有2个

- F#4.5是最大光圈，在此处镜头通光量最大
光圈最大时，镜头景深较小，在F#16光圈是景深达到最大，此时衍射极限会下降
- F#4.5-5.6之间是镜头的最佳光圈，边缘视场与中心视场MTF比较接近
- 支持倍率范围为0.04X-0.1X，在0.08X时成像为最佳倍率值



RELATIVE ILLUMINATION & DISTORTION



F/4.5 $\beta = -0.08$ WD=518.08mm

Specifications

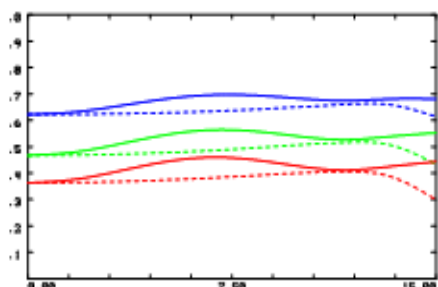
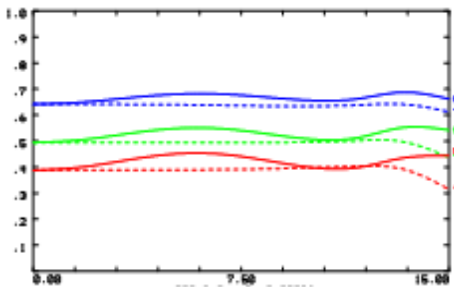
F-number	4.5-16
Focal length	35 mm
Image circle	30 mm
Magnification	0.08x
Transmission	400-700 nm
entrance pupil position	19.62mm
exit pupil position	-45.58 mm
Interface	V-Mount
Filter screw size	M37X0.75

WaveLength	[nm]	405	436	480	546	644	706
Spatial frequency	[1/mm]	45	63	100			
Diagonal 2h	[mm]	30					

f/4.5 WD=1018.08mm

f/5.6 WD=1018.08mm

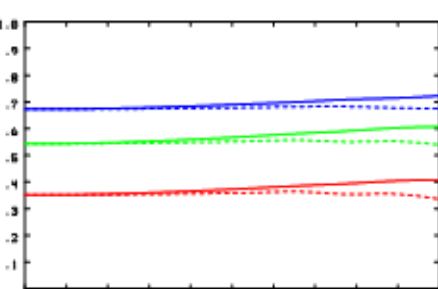
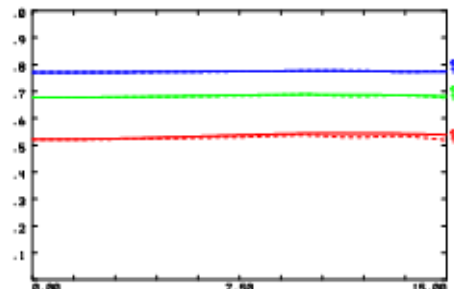
$\beta = -0.04$



f/4.5 WD=518.08mm

f/5.6 WD=518.08mm

$\beta = -0.08$



f/4.5 WD=418.08mm

f/5.6 WD=418.08mm

$\beta = -0.1$

