

LS1607A Lens Datasheet



LS1607A 0.7x Line Scan Lens



LS1607A 匹配16K/3.5u以及12K/5u的线扫sensor，可在400nm-700nm波段使用；LS1607A提供可调节光圈，F#为3.8-16，其中重要的光圈位置有2个

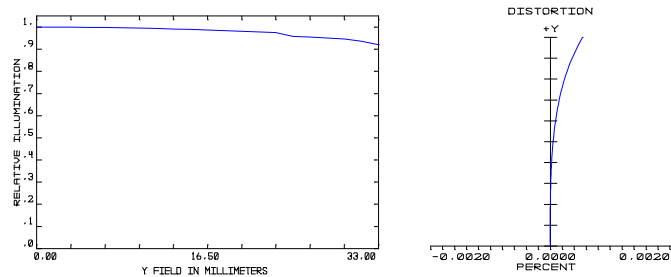
- F#3.8是最大光圈，在此处镜头通光量最大，. 此处的MTF可以达到最大值
光圈最大时，镜头景深较小，并对倍率的变化比较敏感。
- F#5.6是镜头的最佳光圈，边缘视场与中心视场MTF最为接近，整体对比度大幅提升
- F#8-F16的MTF会随着衍射极限的下降而降低，镜头分辨率也会降低
但是支持的倍率范围达到最大

FNO	F3.8	F5.6	F8
推荐倍率	0.66X-0.75X	0.63X-0.83X	0.6X-0.89X

Technical Specifications

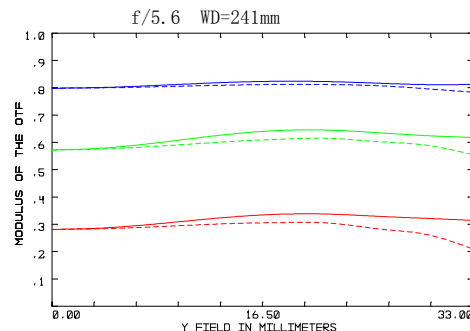
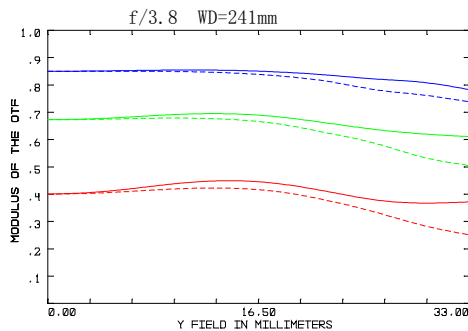
F-number	3.8-16
Focal length	116 mm
Image circle	66 mm
Magnification	0.7x
Transmission	400-700 nm
entrance pupil position	43.2 mm
exit pupil position	-198.3 mm
Interface	V-Mount
Option	Adapter to M58 M72

RELATIVE ILLUMINATION & DISTORTION

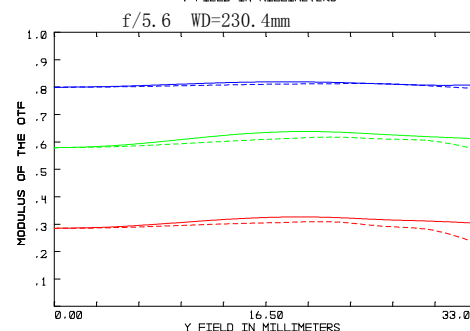
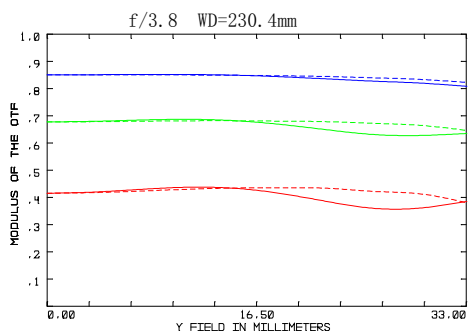


Wavelength [nm] : 405 436 480 546 644 706
Spatial frequency [1/mm] : 25 50 100
Diagonal 2h [mm] : 66

$\beta = -0.66$



$\beta = -0.7$



$\beta = -0.75$

