

Mercury F3.8/116 -2.0x



匹配16K/3.5u以及12K/5u的线扫sensor, 可在400nm-700nm波段使用; Mercury F3.8/116 -2.0x提供可调节光圈, F#为3.8-16, 其中重要的光圈位置有2个

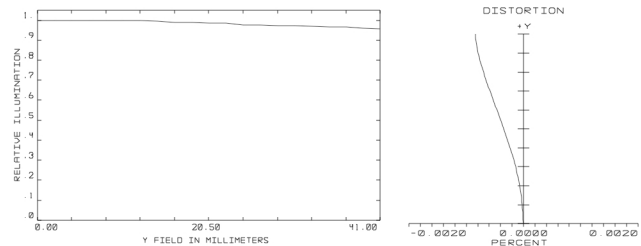
- F#3.8是最大光圈, 在此处镜头通光量最大, 此处的MTF可以达到最大值. 光圈最大时, 镜头景深较小, 并对倍率的变化比较敏感。
- F#5.6是镜头的最佳光圈, 边缘视场与中心视场MTF最为接近, 整体对比度大幅提升
- F#8-F16的MTF会随着衍射极限的下降而降低, 镜头分辨率也会降低. 但是支持的倍率范围达到最大

FNO	F3.8	F5.6	F8
推荐倍率	1.75X-2.25X	1.65X-2.8X	1.55X-3.33X

Technical Specifications

F-number	3.8-16
Focal length	116 mm
Image circle	82 mm
Magnification	2x
Transmission	400-700 nm
entrance pupil position	44.1 mm
exit pupil position	-346.8 mm
Interface	V-Mount
Option	Adapter to M58 M72

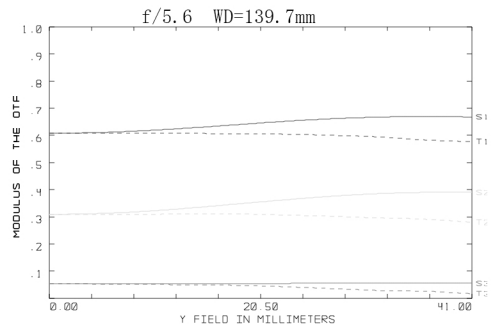
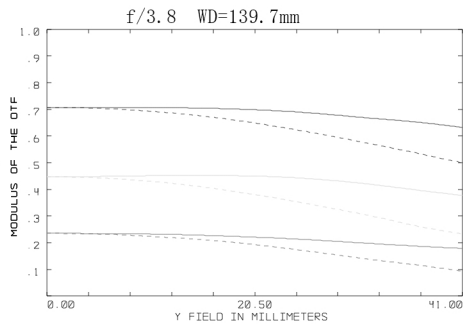
RELATIVE ILLUMINATION & DISTORTION



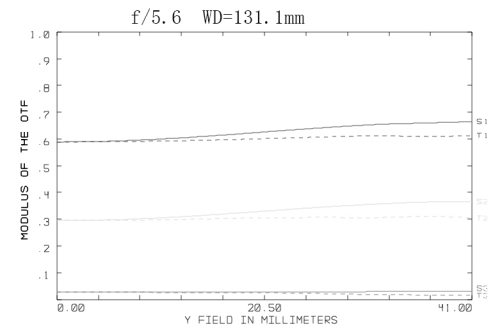
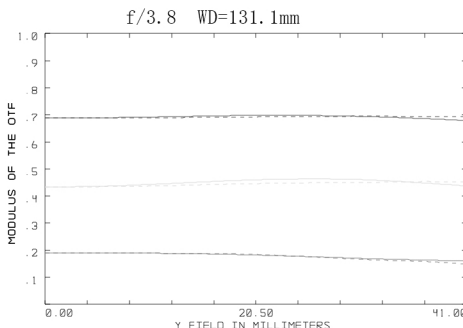
f/3.8 $\beta=-2$ WD=131.1mm

WaveLength [nm] : 405 436 480 546 644 706
 Spatial frequency [1/mm] : 25 50 100
 Diagonal 2h [mm] : 82

$\beta=-1.75$



$\beta=-2.0$



$\beta=-2.25$

