Optics



ITEM #	EFL ^a	WD ^b	Tc	\$		£		€		RMB	
AC254-050-E	50 mm	40.4 mm	10.0 mm	\$	800.00	£	576.00	€	696,00	¥	6,376.00
AC254-075-E	75 mm	64.2 mm	12.5 mm	\$	800.00	£	576.00	€	696,00	¥	6,376.00
АС254-100-Е	100 mm	89.4 mm	12.5 mm	\$	800.00	£	576.00	€	696,00	¥	6,376.00
АС254-200-Е	200 mm	192.6 mm	15.5 mm	\$	800.00	£	576.00	€	696,00	¥	6,376.00
*Effective Focal Length @ 4 µm	^b Working Distance @ 4 μm		^c Thickness								

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IR Achromatic Doublets (Page 2 of 2)

LWIR Achromatic Doublets Optimized for 8 - 12 µm

- AR Coated for the 8 12 μ m Range (Ravg <1.5%)
- Design Wavelengths: 8, 10, and 12 μm
- Substrate: Zinc Selenide/Zinc Sulfide

Note: The optical coating on these lenses contains thorium tetrafluoride (ThF₄) due to its superior performance in the IR. This is a radioactive material, and thus, these lenses should be handled with care.



Please contact your local Thorlabs office for custom optical scans.





Focal Shift Plots for all Lenses Available at www.thorlabs.com

ITEM #	EFL ^a	WD ^b	Tc	\$		£		€		RMB	
AC254-050-F	50 mm	37.2 mm	15.0 mm	\$	800.00	£	576.00	€	696,00	¥	6,376.00
AC254-075-F	75 mm	65.1 mm	12.1 mm	\$	800.00	£	576.00	€	696,00	¥	6,376.00
AC254-100-F	100 mm	90.5 mm	11.5 mm	\$	800.00	£	576.00	€	696,00	¥	6,376.00
AC254-200-F	200 mm	194.3 mm	10.0 mm	\$	800.00	£	576.00	€	696,00	¥	6,376.00
*Effective Focal Length @ 10 µm	^b Working	Distance @ 10 µm	^c Thickness								

*Effective Focal Length @ 10 µm

^bWorking Distance @ 10 µm

Have you seen our... Off-Axis Parabolic Mirrors

- Provides Achromatic Collimation or Focusing
- Protected Gold Coating Provides >95% Average Reflectance Over 800 nm - 20 µm Range
- ◆ Focal Lengths From 1" (25.4 mm) to 6" (152.4 mm) Available

Thorlabs' off-axis parabolic mirrors are diamond-tuned, front surface mirrors that have been cut out of a parent parabolic mirror. These mirrors are available in $\emptyset 1/2$ ", $\emptyset 1$ ", or $\emptyset 2$ " sizes and focus or collimate at 90° relative to the incident beam, as shown right.

