



Electro Optical Components, Inc.

5460 Skylane Boulevard, Santa Rosa, CA 95403

Toll Free: 855-EOC-6300

www.eoc-inc.com | info@eoc-inc.com



IR windows

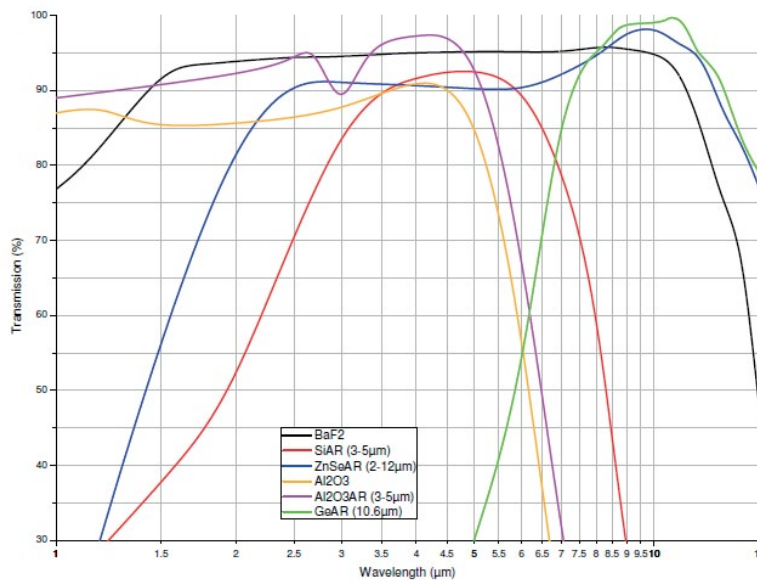
VIGO thermoelectrically cooled detectors are typically provided with:

- 3° wedged Al₂O₃ windows (wAl₂O₃)
- 3° wedged ZnSe AR coated windows (wZnSeAR)

3° wedge prevents “fringing” - interference from stray back reflections.

We offer windows optimized for different spectral bands, as well. Percentage of MWIR and LWIR radiation that can pass through VIGO detector windows is presented in the figure below. Windows can be anti-reflection (AR) coated on two surfaces.

We can mount windows provided by the user (upon request).



Percentage of IR radiation that can pass through the window

Available windows options

Material	Hardness $\frac{\text{kg}}{\text{mm}^2}$		AR coating	Symbol
BaF ₂ barium fluoride	82	wedged	no	wBaF2 ^{*)}
Si silicon	1100	wedged	yes	wSiAR ^{*)}
		planar	yes	pSiAR
ZnSe zinc selenide	120	wedged	yes	wZnSeAR
		planar	yes	pZnSeAR
Al ₂ O ₃ sapphire	1370	wedged	yes	wAl ₂ O ₃ AR ^{*)}
			no	wAl ₂ O ₃
		planar	yes	pAl ₂ O ₃ AR ^{*)}
			no	pAl ₂ O ₃
Ge germanium	780	wedged	yes	wGeAR ^{*)}
		planar	yes	pGeAR ^{*)}

^{*)}Nonstandard with extra charge.