

# FT-1 Product Specifications

Interferometer	Beamsplitter	Detector	Wavelength range (wavenumbers)	Wavelength range (microns or $\mu\text{m}$ )
Mid-IR	ZnSe (Zinc Selenide)	DTGS	7800 - 500 $\text{cm}^{-1}$	1.3 $\mu\text{m}$ - 20 $\mu\text{m}$
Mid-IR	ZnSe	MCT-WB	7800 - 500 $\text{cm}^{-1}$	1.3 $\mu\text{m}$ - 20 $\mu\text{m}$
Mid-IR	ZnSe	MCT-MB	7800 - 650 $\text{cm}^{-1}$	1.3 $\mu\text{m}$ - 15.4 $\mu\text{m}$
Mid-IR	ZnSe	MCT-NB	7800 - 750 $\text{cm}^{-1}$	1.3 $\mu\text{m}$ - 13.3 $\mu\text{m}$
Mid-IR	KBr (Potassium Bromide)	DTGS	7800 - 400 $\text{cm}^{-1}$	1.3 $\mu\text{m}$ - 25 $\mu\text{m}$
Mid-IR	KBr	MCT-WB	7800 - 450 $\text{cm}^{-1}$	1.3 $\mu\text{m}$ - 22.2 $\mu\text{m}$
Mid-IR	KBr	MCT-MB	7800 - 650 $\text{cm}^{-1}$	1.3 $\mu\text{m}$ - 15.4 $\mu\text{m}$
Mid-IR	KBr	MCT-NB	7800 - 750 $\text{cm}^{-1}$	1.3 $\mu\text{m}$ - 13.3 $\mu\text{m}$
Mid-IR	BaF <sub>2</sub> (Barium Fluoride))	DTGS	7800 - 1100 $\text{cm}^{-1}$	1.3 $\mu\text{m}$ - 9.1 $\mu\text{m}$
Mid-IR	BaF <sub>2</sub> (Barium Fluoride))	MCT-NB	7800 - 1100 $\text{cm}^{-1}$	1.3 $\mu\text{m}$ - 9.1 $\mu\text{m}$
Near-IR	CaF <sub>2</sub> (Calcium Fluoride)	InSb	10000 - 1500 $\text{cm}^{-1}$ <i>InSb Optimal Range:</i> 5000 $\text{cm}^{-1}$ - 2000 $\text{cm}^{-1}$	1.3 $\mu\text{m}$ - 6.67 $\mu\text{m}$ <i>InSb Optimal Range:</i> 2 $\mu\text{m}$ - 5 $\mu\text{m}$
Near-IR	CaF <sub>2</sub> (Calcium Fluoride)	InAs	10000 - 3500 $\text{cm}^{-1}$ <i>InAs Optimal Range:</i> 7000 $\text{cm}^{-1}$ - 3500 $\text{cm}^{-1}$	1 $\mu\text{m}$ - 2.8 $\mu\text{m}$ <i>InAs Optimal Range:</i> 1.4 $\mu\text{m}$ - 2.8 $\mu\text{m}$
Near-IR	CaF <sub>2</sub> (Calcium Fluoride)	InGaAs	12000 - 5000 $\text{cm}^{-1}$	0.8 $\mu\text{m}$ - 2 $\mu\text{m}$
Far-IR system	CsI (Cesium Iodine)	DTGS	5000 - 210 $\text{cm}^{-1}$ <i>Note: CsI optics is soft and extremely hygroscopic.</i>	2 $\mu\text{m}$ - 47 $\mu\text{m}$