

# ZMI Column Reference Interferometer (CRI), Vacuum Compatible

P/N	DESCRIPTION	OPTICAL	
6187-0100-01	Column reference plane mirror interferometer	Linear displacement resolution (nominal)	0.31 nm (ZMI 2000) 0.15 nm (ZMI 4000)
PHYSICAL CHARACTERISTICS		Linear displacement range (typical)	0 to 1000 mm
Dimensions	See Figure	Maximum error due to tolerances in polarizing optical elements	± 2 nm
Weight	1100 grams	Thermal drift coefficient (typical) (change of indicated distance per degree C temperature change)	< 0.03 micrometer/degree C
Materials	Housing- magnetic stainless steel with electroless nickel plating Optics- BK7, crystalline quartz, Zerodur Adhesives- vacuum grade, low volatility	Signal Efficiency	>60% with plane mirror having 99% reflectance at 633 nm at normal incidence
COMPONENTS			
Not Included	Target Plane Mirror, Reference Plane Mirror, Fiber Optic Pickup		

