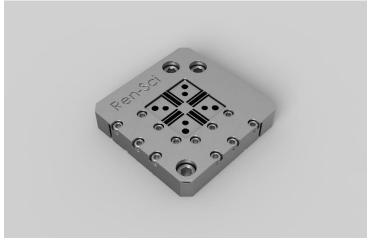
CryoScan-340 Series

Cryogenic XY Piezo Driven Flexure Scanner



Description: The CryoScan 340 is a piezo driven, fine positioning/fine scanning stage that runs on a DC high voltage input signal. The flexure design is free of friction and stiction and has a motion amplification factor of 2.3x the input displacement.



Technical Specifications:

Scan Directions XY (planar) Scan Range 300K 40 μm Scan Range 4K 12 μm Capacitance (X/Y) 600 nF Lowest Resonance Frequency 3800 Hz Stiffness 16 N/μm Actuation Thickness Mode PZT (unipolar) Drive Amplitude (V) (300K) -100 V / +100 equal and opposite voltage swing Drive Amplitude (V) (4K) -175 V / +175 equal and opposite voltage swing Materials Ti (CP grade 2), PZT ceramics Magnetization < 10 nT To 1.0 x 10⁻¹¹ mBar **UHV** Compatibility Bakeout To 120°C **Interface** Touchscreen

