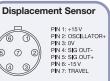
NanoMax[™] SM Fiber Launch with 20 µm Piezos and Sensors

Specifications

- Manual Travel: 4 mm
- Thermal Stability: 1 µm/°C
- Differential Adjusters
 Coarse Adjustment: 0.5 mm/rev
 Fine Adjustment: 50 µm/rev
- Piezoelectric Travel: 20 µm
- Manual Drive Resolution: Provides 50 nm Resolution Over a 300 µm Travel Range
- Piezoelectric Actuator Resolution: 5 nm When Operating with Internal Piezo Displacement Sensors.
- Max Piezoelectric Drive Voltage: 75 VDC
- Crosstalk: 20 µm/mm of Travel (Max)
- Resonant Frequency (±10%): 375 Hz (No Load) 200 Hz (275 g Load) 150 Hz (575 g Load)
- Load Capacity: 2.2 lbs (1 kg)
- Deck Height: 62.5 mm from the Base of the Stage to the Mounting Surfaces of the Moving Platform, the Accessory Beam Height is 75 mm from the Bottom Surface of the Stage
- Accessories: Mounted on the Top Deck of the Stage: Large Fixed Bracket (AMA009) Microscope Objective Mount (HCS013)

Adjustable Force Fiber Clamp (HFF001) Cable Strain Relief (HFS001)

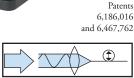
Note: All measurements related to the performance of the piezoelectric actuators are made with Thorlabs' model BPC203 piezo driver, which can be found on page 568.



The strain gauge displacement sensor, directly attached to the body of the piezoelectric element, provides an analog signal that is proportional to its displacement. When combined with low noise electronics, the resolution obtained is better than 5 nm. Microscope Objective Sold Separately (See Page 804)

When Performance Matters

When long-term stability and ease-ofuse are of paramount importance, we recommend this series of NanoMax launch systems.



NanoMaxTM Stage with High Resolution Manual Adjusters and Piezoelectric Actuators

The MAX373 Fiber Launch System is built from our MAX311 three-axis translation stage; for details on this stage, please see page 471. This stage and accessory package are ideally suited for use with our NanoTrakTM auto-alignment system (see page 572 for details). The 20 µm of piezoelectric travel provides sufficient electrical control of the position of the optical fiber to ensure rapid 'first-light' detection as well as automatic optimization of the coupling efficiency.

The MAX373 utilizes three strain gauge displacement sensors to provide a voltage signal that is linearly proportional to the displacement of the piezoelectric element. Using this signal, it is possible to compensate for hysteresis, creep, or thermal drift that is inherent to all piezoelectric elements. Additionally, the use of the displacement sensor in combination with our NanoTrakTM auto-alignment system allows one to precisely optimize the coupling efficiency of an optical system; then, once aligned, the displacement sensors can be used to stabilize the position of the system while subsequent operations are performed.

ITEM#	METRIC ITEM#	\$	£	€	RMB	DESCRIPTION
MAX373	MAX373/M	\$ 3,185.00	£ 2,208.00	€ 2.827,50	¥26,895.00	NanoMax TM SM Fiber Launch System with Piezos and Sensors



Motion Control

CHAPTERS ▼ Manual Stages

Motorized Stages

Multi-Axis Platforms

Actuators

Controllers SECTIONS V

3-Axis Roller

3-Axis Flexure

4-Axis Flexure

5-Axis Flexure Platforms

6-Axis Flexure

Platforms

Platforms

Platforms

Accessories

Flexure