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ScienceDesk™ for Multiphoton Microscopy Applications



NEW
products

5' x 6' Surface is Ideal for Multiphoton Microscopy Systems

SDA150180
Frame with PerformancePlus Breadboard

Features

- Active, Self-Leveling Vibration Isolation
- Large 5' x 6' (1500 mm x 1800 mm) Work Surface
- Ideal for Multiphoton and Confocal Microscopy
- Laser and Microscope Sit Side By Side, Increasing System Stability
- Reduced Vibration from Connecting Cables
- Modular Design Allows for Customization of Your Work Space
- Range of Accessories Available (See Pages 35 – 45)

This Multiphoton Microscopy solution combines our active, self-leveling ScienceDesk frame with either our 1/4"-20 or M6 tapped PerformancePlus series breadboard. The large, 5' x 6' (1500 mm x 1800 mm) work surface area is ideal for multiphoton applications, as it allows sufficient room for both the laser and microscope to sit on the tabletop, thereby increasing laser stability and preventing vibrations from being transmitted through the cables.

The ScienceDesk frame melds function and form to produce a portable, industry-leading vibration-isolation platform. ScienceDesk frames feature a durable welded steel construction and provide a variety of solutions for equipment storage and rigging. The optical breadboard (work surface) is inset in the ScienceDesk frame so that it is protected from accidental contact. A range of shelving options is also available for this ScienceDesk. Please refer to pages 35 – 45 to view our accessory options.

The active ScienceDesk frame incorporated into this multiphoton microscopy solution features a transmissibility ratio of 0.04 at 10 Hz and provides the highest level of isolation available in this line of portable, ergonomic workstations. The active isolation system requires that a constant source of pressurized air (such as that provided by our PTA511 air compressor featured on page 72) be supplied to the pneumatic isolators. The system will adjust the pressure in each isolator to keep the optical breadboard surface level, even when the distribution of weight on the optical breadboard is changed.



PTA511

Specifications*

- **Load Capacity (Including Breadboard):** 1540 lbs (700 kg)
- **Frame Size:** 1695 mm x 1995 mm (5.5' x 6.5')
- **Air Pressure Required:** 80 psi (551 kPa) Maximum
- **Height Adjustment Range:** Leveling Feet: ±0.59" (±15 mm)
- **Finish:** Dark Gray
- **Self-Leveling Repeatability:** ±0.02" (±0.5 mm)
- **Isolation Type:** Active
- **Resonant Frequency**
 - Vertical: 1.5 Hz
 - Horizontal: 1.4 Hz
- **Transmissibility (at Resonance)**
 - Vertical: 13 dB
 - Horizontal: 21 dB
- **Transmissibility**
 - Vertical (@10 Hz): -29 dB (0.035 Transmissibility Ratio)
 - Horizontal (@10 Hz): -27 dB (0.043 Transmissibility Ratio)
- **Ergonomics:** In Accordance with BS EN 527 and BS EN 1335

*Frames rated at full load capacity



Thorlabs' MPM200 Multiphoton Microscopy System Shown on a 5' x 6' ScienceDesk™

ITEM #	\$	£	€	RMB	DESCRIPTION
SDA150180	\$ 4,261.00	£ 3,067.92	€ 3,707.07	¥ 33,960.17	Frame Accepts 5' x 6' (1500 mm x 1800 mm) Breadboard
PBI12129	\$ 4,148.00	£ 2,986.56	€ 3,608.76	¥ 33,059.56	5' x 6' PerformancePlus Breadboard, 1/4"-20 Taps
PBI52529	\$ 4,099.00	£ 2,951.28	€ 3,566.13	¥ 32,669.03	1500 mm x 1800 mm PerformancePlus Breadboard, M6 Taps