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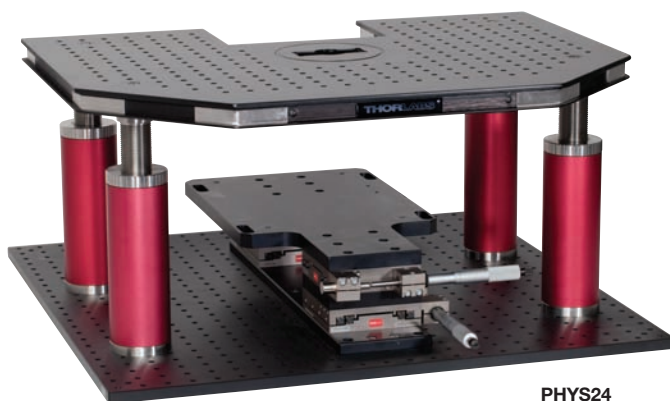
ScienceDesk
Accessories

Optical Tables

Table Supports

Optical Table
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Physiology Stages (Page 1 of 2)

NEW
products

PHYS24

Modern imaging technology enables the study of physiological processes in living cells and animals. Image quality depends not only on state-of-the-art technology but also on the preparation of the specimen to be imaged. Imaging of live cells, tissues, and animals often requires the ability to position the specimens so that they remain stationary during image acquisition. To address these needs, Thorlabs has developed physiology stages that provide manual or motorized movement of the microscope about a stationary specimen.

These Physiology Stages consist of a rigid, mechanically and thermally stable U-shaped breadboard that provides more than two hundred 1/4"-20 (M6) tapped holes over a full 270°, which makes it easy to mount patch clamps or other experimental accessories. The breadboard has a removable Ø110 mm insert with an inset that can accommodate a

standard microscope slide or 35 mm Petri dish. The upper U-shaped breadboard is supported by four adjustable-height support columns (PHYS12P or PHYS12P/M), each of which can be adjusted from 8" to 12" (203 mm to 305 mm) and locked in place using a knurled-ring locking collar. The base of each column is attached to a 1/2" (12.7 mm) thick solid aluminum breadboard measuring 24" x 24" (600 mm x 600 mm) with 1/4"-20 (M6) taps on 1.0" (25 mm) centers.

Each physiology stage comes with either a manual or motorized 2" (50 mm) XY Travel Microscope Translator that is mounted to the base breadboard and provides smooth, repeatable movement in the XY direction while maintaining a stable platform for the microscope. The manual versions come with our LNR50M/M TravelMax Translation Stage, which incorporates micrometer drives that have a graduated scale. The Manual Microscope Translator can be easily configured into left- or right-handed XY systems.

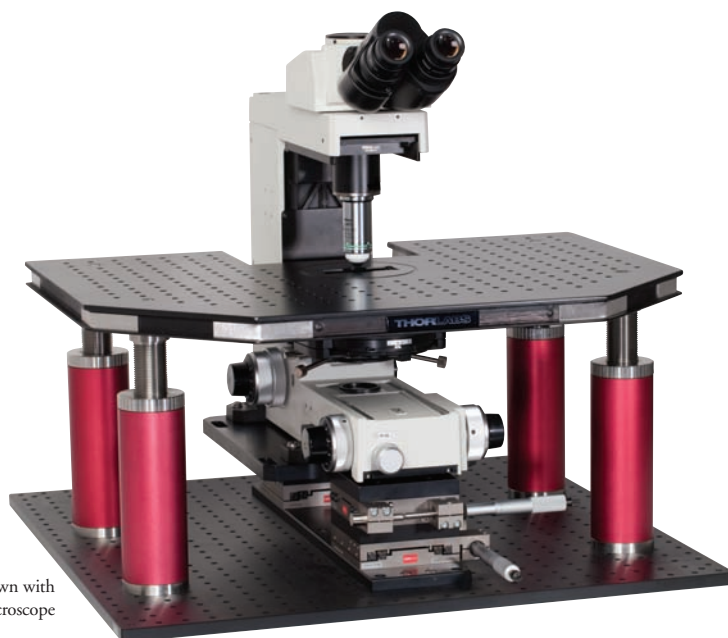
Features

- Adjustable Height U-Shaped Breadboard Provides 270° Access to Samples.
- Includes Microscope Translator - Three Versions Available
 - Manual Translation
 - Motorized Translation
 - Encoded Motorized Translation
- U-Shaped Ultralight Series I Breadboard with Sealed Holes to Contain Spills
- Imperial and Metric Versions
- No Assembly Required

Thorlabs' PHYS24 Series of Physiology Stages offers state-of-the-art workstations that are directly compatible with the Nikon Eclipse FN1 upright microscope. Please email ImagingSales@thorlabs.com to inquire about adapter plates that are compatible with other common microscopes.

Motorized Physiology Stages

The motorized versions of these microscope translators are available either with or without encoders. The linear optical encoder mounts to the moving platform of the stage and provides feedback to the drive electronics to ensure accurate bi-directional repeatability (0.3 µm with encoders versus 0.5 µm without) and on-axis positioning (3 µm with encoders versus 10 µm without). Our motorized translators come with two TST001 T-Cube Stepper Motors for automated control, while the encoded versions come with our BSC102 Two-Channel apt™ Benchtop Stepper Motor Controller (see page 42 for details).

PHYS24 Shown with
Nikon FN1 Microscope