

Platform & Motorized X-Y Stage

# Burleigh<sup>®</sup> Gibraltar<sup>®</sup>

## The Field-Leading Mounting Solution for Fixed Stage, Upright Microscopes

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Motorized, hands-free movement eliminates vibrations and optimizes performance

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Memory positions allow easy, dependable movement between different fields of view

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Sturdy, open design for unrestricted instrument operation

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Choice of platform tops to fit your specific application needs

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The Gibraltar<sup>®</sup> Platform is compatible with Zeiss, Olympus,  
Nikon and Leica upright microscopes

Ideal for:

- Imaging and patch clamp recording of areas not in the same field of view
- Entire samples scanned swiftly
- Multiple-patch experiments
- Time-lapse photography of different areas
- Material Science



**LUMEN DYNAMICS**  
PUTTING YOU IN CONTROL

**Burleigh<sup>®</sup>**  
Micromanipulators • In Control

# Burleigh® Gibraltar®

## The High-Performance Physiology Platform

The Burleigh® Gibraltar® has led the way to a new level of mounting solutions for upright, fixed stage microscopes in physiology and imaging applications. Specifically tailored to maximize ergonomics and performance, the rock-solid Gibraltar® is the foundation of an experimental set-up providing you with an open, sturdy platform. From the simplest to the most sophisticated workstations, build on the best.

### Designed with your productivity in mind

The Gibraltar® Platform and X-Y translation stage provide a complete solution for fixed stage, upright microscopes allowing smooth and precise movement between fields of view without disturbing an established patch. The open design of the elevated platform allows manipulators, chambers and other instruments to be installed with optimum mechanical and thermal stability.

The motorized X-Y stage with memory positions ensures that you never lose a position of interest. Gone are the days when moving out of the field of view is plagued by the doubt that you may not be able to move back to your current location.

The Gibraltar® Platform is available in two versions for maximum functionality: a spill-proof stainless steel top with tapped holes or a non-magnetic epoxy-coated aluminum top with through holes.

### Dual patch with confidence

It's no secret that an essential prerequisite for successful patching is stability so that the first patch is not disturbed when a second patch is performed. The motorized, rock-solid Burleigh® Gibraltar® and PCS-6000 manipulators remove the possibility of mechanical vibration derived from touching the manipulators or microscope X-Y stage. The result: ultra-stable, fast and efficient hands-free movement for maximum productivity.



# It's All About Choice

A wide range of upgrades and accessories are available for the Burleigh® Gibraltar® Platform and X-Y stage, providing maximum flexibility and easy customization.

## With or Without Base?

The Gibraltar® Platform can be purchased already attached to a sturdy base or without a base for mounting directly to a threaded vibration isolation table.

## Aluminum or Stainless Steel Top?

Choose a non-magnetic, epoxy-coated aluminum top with through holes or a magnetic, stainless steel breadboard top with tapped holes. In both instances there are more than 160 1/4-20 tapped holes in a one-inch grid providing more than 270 degrees of mounting flexibility.



\*Stainless Steel Top

## Motorized Stages or Manual Micrometers?

Manual micrometers are an alternative to the motorized X and Y stages with memory positions. Upgrading from manual micrometers to motors and memory is quick and easy.



\*Motorized X-Y Stage

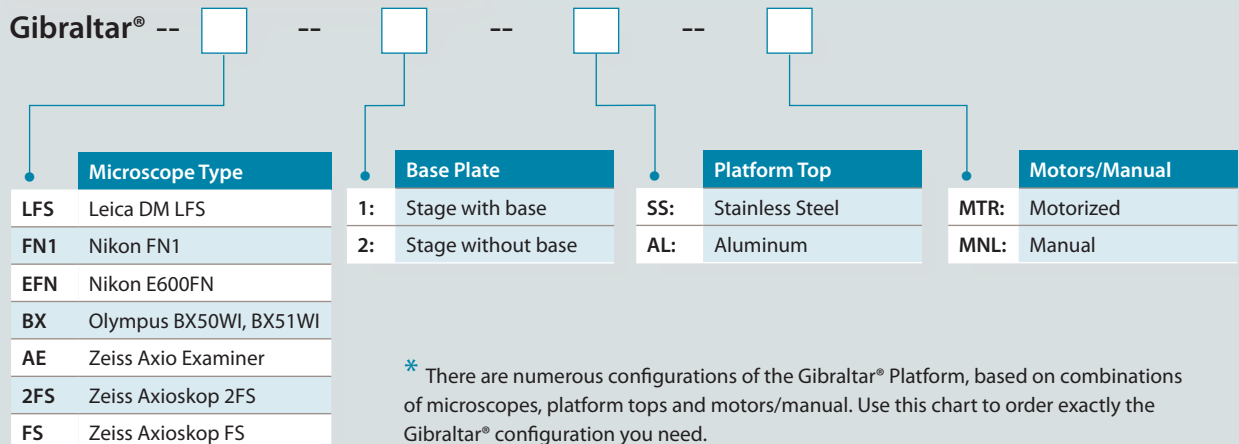
## Simplify experimental set-up

Confidently patch in different fields of view without worry of losing your pipettes or delaying the experiment by having to reduce the magnification to locate your areas of interest. When you've found a suitable area of the sample to experiment on, simply push a button to memorize the location and proceed with the search for a second target area. Memorize the second location and look for a third. With the first two positions in memory you can return to them at will for comparison or analysis.

If you're doing time-lapse imaging, double your productivity and produce twice the data on samples by moving with ease between two locations. For photolysis of caged compounds, select the area to be activated, store it in memory, and move to the appropriate area to perform the patch, store that position in memory, then move back to the original location and perform the photolysis.

## Ordering Information\*

Gibraltar® --



\* There are numerous configurations of the Gibraltar® Platform, based on combinations of microscopes, platform tops and motors/manual. Use this chart to order exactly the Gibraltar® configuration you need.

# SPECIFICATIONS

## Gibraltar® Platform

Materials	Black epoxy-coated aluminum	Magnetic Stainless Steel
Dimensions	23.6" x 17" x .5"	23.6" x 17" x 1.25"
Weight	16 lbs	25 lbs

## Columns

Materials	Black epoxy-coated aluminum and stainless steel
Threads	1.5" diameter, 12 threads/inch
Weight	6 lbs each (four per system)

## X-Y Stage and Adapter Plate

Load Capacity	110 lbs
Materials	Black plated aluminum
Bearings	Ball bearings
Dimensions	8" x 8" x 2"
Weight	18 lbs (with microscope adapter plate)

## Motors

Range	1" (25mm) in both X and Y positions
Speed	Maximum: 0.4mm/sec, minimum: 3.0 micron/sec
Position Resolution	~ 5 micrometers at slow speed

## Electrical / Environmental

Power requirements	90 to 260 VAC. 50/60 Hz, 45 W max
Dimensions	10" x 10" x 4" for controller 4" x 4" x 5" for joystick
Mass	4.5 lbs for controller and joystick
Environment	Operating: 10 to 40°C, < 60% RH Storage: -10 to 70°C, < 90% RH non-condensing

## Base Plate (Optional)

Materials	Black epoxy-coated aluminum
Dimensions	23.6" x 11.6" (for upright)
Weight	14 lbs

## Sample Plate (Optional)

Materials	Black plated aluminum
Dimensions	110mm OD, 32mm ID, 3.2mm thick

## Compatible Vibration-Isolation Tables (when base is not purchased)

English Tables	1/4-20 tapped holes on a 1-inch square pattern
Metric Tables	M6 x 1.0 tapped holes on a 25-mm square pattern

## WARRANTY

2 Years



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