

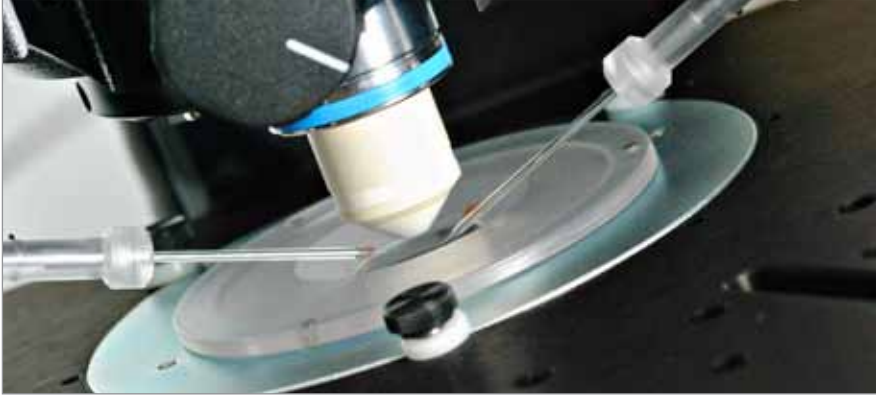
Movable Top Plate (MTP)

With manual adjusters



Movable Top Plate (MTP)

This platform satisfies those wishing for manual, finger-tip control (featuring high-quality micrometers) adjustment in the X and Y axes, yet still wishing for smooth, precise movement. Scientifica's MTP provides researchers with an easy to operate translation platform giving the perfect, stable base for research needs. The MTP is ideal for those conducting patch clamp experiments and cell imaging applications.



Smooth Movement

By using long, low-friction crossed roller bearings, the MTP provides exceptionally smooth travel to ensure maximum precision and usability. This careful engineering, coupled with high-quality micrometers, will ensure years of trouble-free use and drift-free positioning.

The MTP features 25 mm of movement in X and Y axes, enabling exploration of cells and slice preparations to provide you a more complete picture of cell interaction.

Large diameter adjusters enable easy, convenient and precise fingertip control, with a resolution of less than 1 micron for a seamless and smooth movement around your sample.

Compatibility

The MTP is compatible with upright microscopes from all major manufacturers, including Olympus, Nikon, Zeiss and Leica as well as Scientifica's renowned SliceScope.

The sturdy aluminium legs are height adjustable so that the top surface can be raised from between 191 mm and 237 mm above the table surface, ensuring compatibility and readiness for Koehler illumination.

Versatility

With the space around your sample at a premium, it's important that none is wasted by limitations on where you can mount your equipment.

The large surface area of the MTP has been designed to be extremely versatile, allowing plenty of room for multiple manipulators or additional electrical or pharmacological stimulators.

The MTP boasts 9 grooves that accommodate our carriages, these can be used to house manipulators or other equipment to help maximise your operating area. In addition, the top plate can be removed to allow for customised top plate integration.

Perfect Integration

The MTP is a member of a large family of electrophysiology and imaging products from Scientifica. For this reason, the MTP easily integrates into a complete system rather than being operated independently. This approach guarantees compatibility for greatly simplified setup and operation.

The MTP stage, shown below and as part of a SliceScope Pro 3000 system

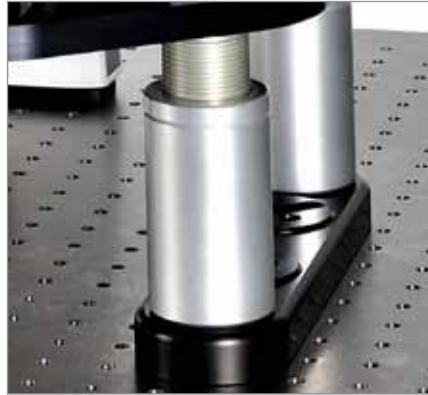
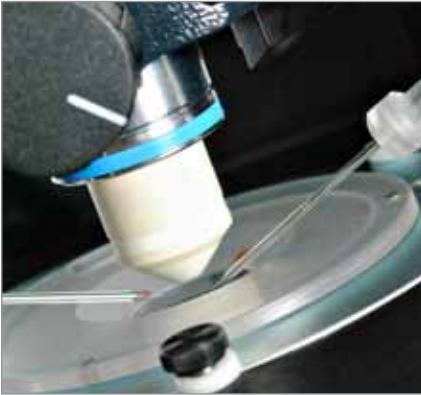


Features

Movable Top Plate

When mounted on the MTP, your whole sample can be explored while the microscope remains fixed, essential for when illumination or excitation techniques constrain microscope movement.

This exceptional engineering makes it the first choice base plate for many researchers worldwide.



Large, Durable Top Plate

With a surface engineered from tough, durable anodised aluminium, the MTP is built to last - helping stretch your long-term budget even further.

The surface is designed to withstand chemical spills and offer many years of trouble free operation. The unique mounting carriages can be used to carry micromanipulators, which then conveniently slide and secure in place around the sample plate.

Alternatively, equipment can be bolted down to the top plate surface using an M6 or 1/4"-20 tapped hole grid.

To simplify your setup, the MTP features a shallow walled sample chamber built into the top plate. A ferro-magnetic outer ring enables the easy placement of perfusion equipment. Alternatively, it also accepts standard 108 mm and 110 mm chamber adaptors ensuring the MTP can be adapted for every application.

Easy Height Adjustment

The sturdy aluminium legs are height adjustable so that the top surface can be raised from between 191 mm and 237 mm above the table surface.

This allows the MTP to be easily placed under your chosen microscope at the optimum working height for your preparation. In order to allow complete freedom when arranging your rig on an anti-vibration table, the MTP features

Scientifica's intuitive rotatable slotted inserts on its feet for simple and flexible attachment anywhere on your table top.

Technical Specifications

Specifications	
X Travel:	25 mm
Y Travel:	25 mm
Chamber Adaptors Accepted:	108 mm & 110 mm
Weight:	24 kg
Top Plate Material:	Anodised Aluminium (Black)
Leg Material:	Anodised Aluminium (Silver)

Ordering Information

Product Option	Order number
Movable Top Plate (Metric tapped holes and carriages)	MTP-3500-00
Movable Top Plate (English tapped holes and carriages)	MTP-3500-50
Both MTPs include: 3 mounting carriages and a Slice Recording Chamber Kit (containing 2 Bath Plate tools, Cover Slips, Perspex Bath Chamber, Ferromagnetic Ring & RTV sealant).	
Additional mounting carriage (Metric)	MTP-3600-00
Additional mounting carriage (English)	MTP-3600-50

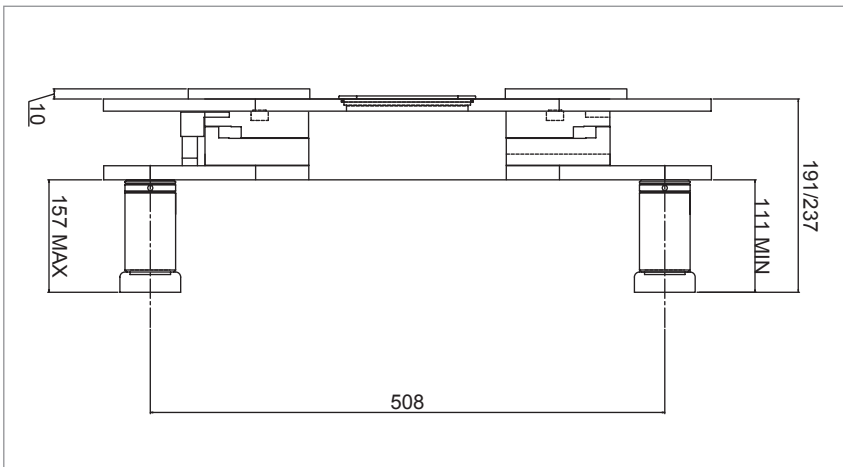
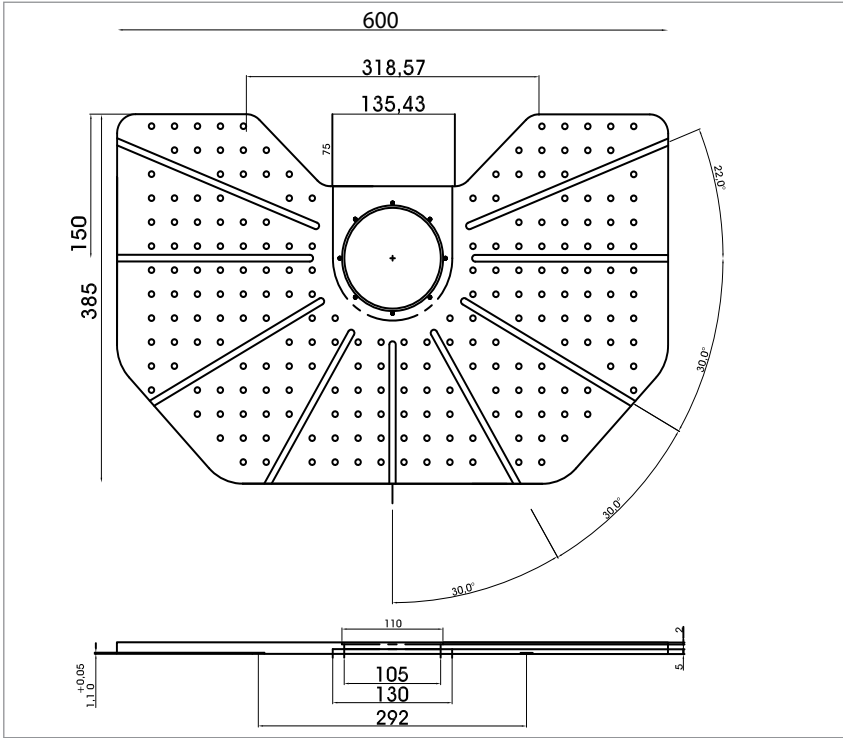
Warranty

Scientifica's success is founded on supplying superior support and application of our significant manufacturing experience. We would therefore really value the opportunity to understand your applications better and to offer no obligation advice on equipment, configurations and compatibility.

All Scientifica instruments are sold with a two-year warranty giving you complete peace of mind. This covers all defects in manufacturing and materials. In this unlikely event, Scientifica will remedy either by repair or replacement.

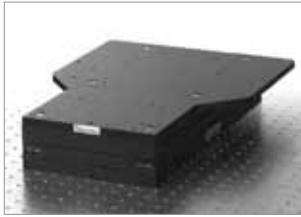
Our team of customer support engineers is dedicated to providing you with the very best advice and support, should you experience any difficulties with our products. With all products we offer a complete installation support service.

Schematics



A guide to Scientifica's mounting range

Movable Microscope



Universal Motorised Stage

OR



Manual XY Stage

+
One of the following
platform systems



SlicePlatform



Post & Platform



Inverted Fixed Platform

The Post & Platform, SlicePlatform and Inverted Fixed Platform are combined with our Universal Motorised Stage (UMS) for smooth microscope movement.

Fixed Microscope

Movable Top Plate



Movable Top Plate Motorised Movable Top Plate

Inverted Movable Top Plate



Inverted Movable Top Plate Inverted Motorised Movable Top Plate

Motorised Movable Base Plate



Complete Systems

All of the mounting options above are available as a package with manipulators and a microscope (either SliceScope or most major upright and inverted microscopes) - a complete turnkey solution for your research.



Revision 1.0

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