

# Movable Top Plate



*Productivity Through Control*

# MTP

## *Movable Top Plate*

*It pays to build your research on a solid platform, and now you have that choice with the Scientifica Movable Top Plate (MTP).*

*Until now, combining electrophysiology with confocal microscopy was extremely challenging because of the need for both delicate electrode positioning and long-term stability. The Scientifica Movable Top Plate solves this problem.*

Developed in association with research scientists around the world, the Scientifica Movable Top Plate provides a large, fully adjustable platform that offers unprecedented mobility and precise alignment without disrupting complex preparations.

Because brain slice and other large samples can give a more complete picture of cell interaction, going beyond the field of view of the microscope objective is highly valuable. With many scanning laser systems, which are used to acquire optical section images, moving the microscope relative to the sample is not an option. We overcome this problem by carefully moving the sample and manipulators together, while the microscope remains fixed. Large diameter adjusters ensure fingertip control and easily allow smooth positioning below one micron in both axes.

## *Adjustable Height Platform*

Different upright microscopes as well as diverse samples require different platform heights. The MTP features rock solid yet fully adjustable mounting posts. A special tool is provided to enable easy repeatable platform height adjustment.



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## *Movable Top Plate*

# Smooth Movement

Scientifica uses long, low-friction precision bearings to provide exceptionally smooth travel, to minimise disturbance to established recording sites during adjustments, and to stand the test of time. Years of extensive testing have proven the value of these crossed roller bearings. In comparison, some other manufacturers' stages use inferior parts that are prone to drift, often becoming progressively worse over time.



# Versatile Manipulator Mounting

Manipulators or other devices can be easily positioned anywhere in the experimental area of the MTP. Innovative T-bar mounting carriages slide into any of the seven grooves on top of the platform.



# *Single Structure*

The MTP features the rugged construction and easy-to-use components that have become Scientifica's trademark. This attention to quality ensures that our equipment works just as well years into the future as it does the very first time.

The single-structure design of the MTP is preferable to equipment made of several connected components. Such components can introduce instability and twisting of the apparatus during adjustments if they are not perfectly aligned. Scientifica's proprietary design reduces long-term wear and increases both precision and reliability during adjustment.

# *Removable Top Plate*

The movable top plate can be completely removed to allow configuration of the apparatus away from the experimental area. In a shared imaging system, each group can have their own fully configured top plate already prepared and ready to slide into the MTP. This feature saves hours of expensive microscope time.

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# *Movable Top Plate*



## *Large Stage Aperture*

Various microscopes and techniques require different size condensers. The MTP features an enlarged U-shaped aperture to accommodate condensers with a diameter of up to 160 mm, providing easy access for adjustment.

# Attachment

## *Attach Anywhere*

The mounting holes on your vibration isolation table may not be perfectly situated for your experiment. The MTP conquers this problem with a rotating slotted insert on the mounting post assembly. This means that the MTP can be securely attached to any standard vibration isolation platform.



# Rotation

## *Rotating Sample Plate*

You can orient your sample as you choose, allowing total flexibility in the experimental area. Simply release, rotate and lock the sample plate in place.



# Future

## *Looking to the Future*

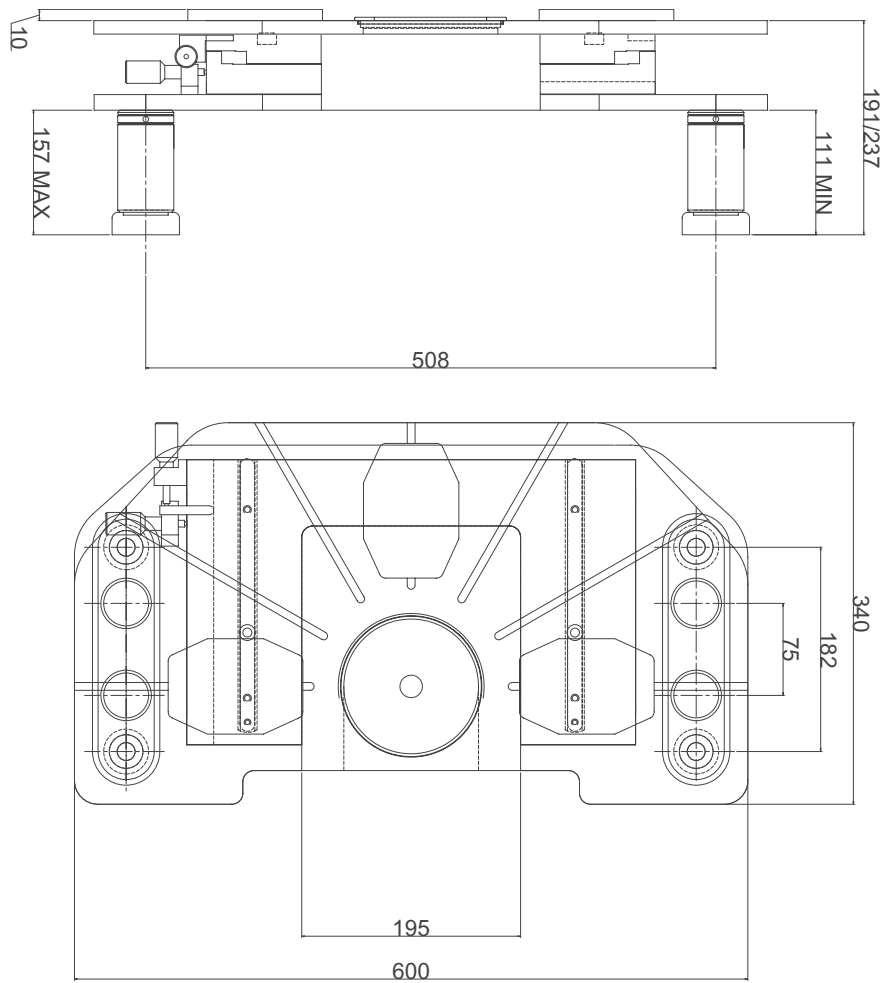
Modern methods of three-dimensional light microscopy promise to revolutionise the way we look at living cells and many fields of research will inevitably head this way. If you are not there yet, then the MTP works just as well as a fixed platform now, and provides the flexibility to move to more complex microscopy without future investment.

# MTP

## *Movable Top Plate*

# Technical Specifications

Maximum Travel	1 inch (25.4 mm) in X & Y axes
Resolution	<1 micron
Working Height	Adjustable from 191 mm to 237 mm
Sample plate holder	Accepts sample plates with an outer diameter of 110 mm
Weight	32 Kg (70 lb)



# Ordering Information

To order within the UK and Eire, please contact Scientifica directly. Outside these areas, please contact your local sales representative. Using the part numbers below, please specify your chosen system.

Product	Part No.
Movable Top Plate, complete with height adjustment tool and 3 metric mounting carriages	MTP-3500-00
Movable Top Plate, complete with height adjustment tool and 3 English mounting carriages	MTP-3500-50
Mounting carriage – metric M6 hole pattern	MTP-3600-00
Mounting carriage – English 1/4 – 20 hole pattern	MTP-3600-50
Additional top plate with no carriages	MTP-3700-00
Spare sample plate holder	MTP-3750-00

## Warranty

All Scientifica instruments are sold with a two year warranty to give you complete peace of mind. This covers all defects in manufacturing and materials, providing the system is registered with us within 30 days of delivery. An extended warranty can be purchased if desired after this two year period.

For more information please contact your local distributor or visit our website.

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