# Scientifica Buyer's Guide

# Micromanipulators


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Scientifica
Experts in Electrophysiology & Imaging

# Micromanipulators

Scientifica's range of ultra-stable, low-noise motorised and manual micromanipulators were all designed in collaboration with world-leading scientists.

The range of manipulators provide precise and reliable control for a range of applications - from positioning stimulating electrodes to whole-cell patch clamp and microinjection.

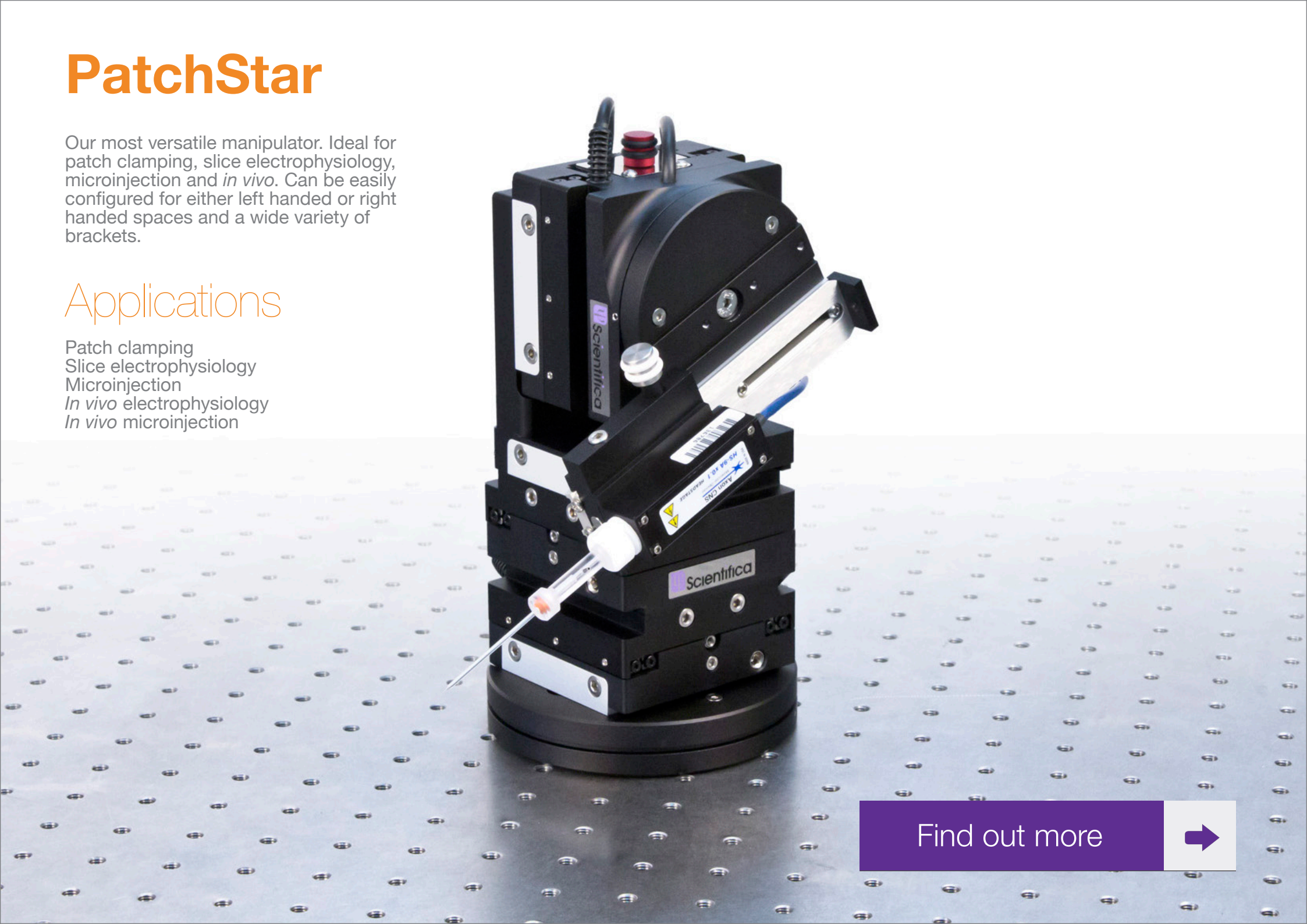
| Manipulator | *In Vitro* | *In Vivo* | Motorised | Travel | Axis | Notes |
|---|---|---|---|---|---|---|
| PatchStar | Yes | Yes | Yes | 20 mm | 3 orthogonal and virtual 4th axis | Extremely versatile for multiple applications and configurations |
| MicroStar | Yes | No | Yes | 20 mm in X & Z axes, 14 mm in Y axis | 3 orthogonal and virtual 4th axis | Ideal for network studies |
| LBM-7 | Yes | No | No | 25 mm in X and Z axes, 12.7 mm in Y axis | 4 linear axes | A precise manipulator & high resolution manual manipulator |
| IVM Single | No | Yes | Yes | 70 mm | 1 | Used for larger preparations where longer travel is required |
| IVM Triple | No | Yes | Yes | 70 mm (In X, Y & Z axes) | 3 | Long travel and high precision in 3 axes |
| IVM Mini Single | No | Yes | Yes | 20 mm | 1 | Perfect for setups with limited space |
| IVM Mini Triple | No | Yes | Yes | 20 mm (In X, Y & Z axes) | 3 orthogonal with adjustable angle of Z axis | Ideal for *in vivo* experiments requiring an adjustable approach angle |

# PatchStar

Our most versatile manipulator. Ideal for patch clamping, slice electrophysiology, microinjection and *in vivo*. Can be easily configured for either left handed or right handed spaces and a wide variety of brackets.

## Applications

Patch clamping
Slice electrophysiology
Microinjection
*In vivo* electrophysiology
*In vivo* microinjection



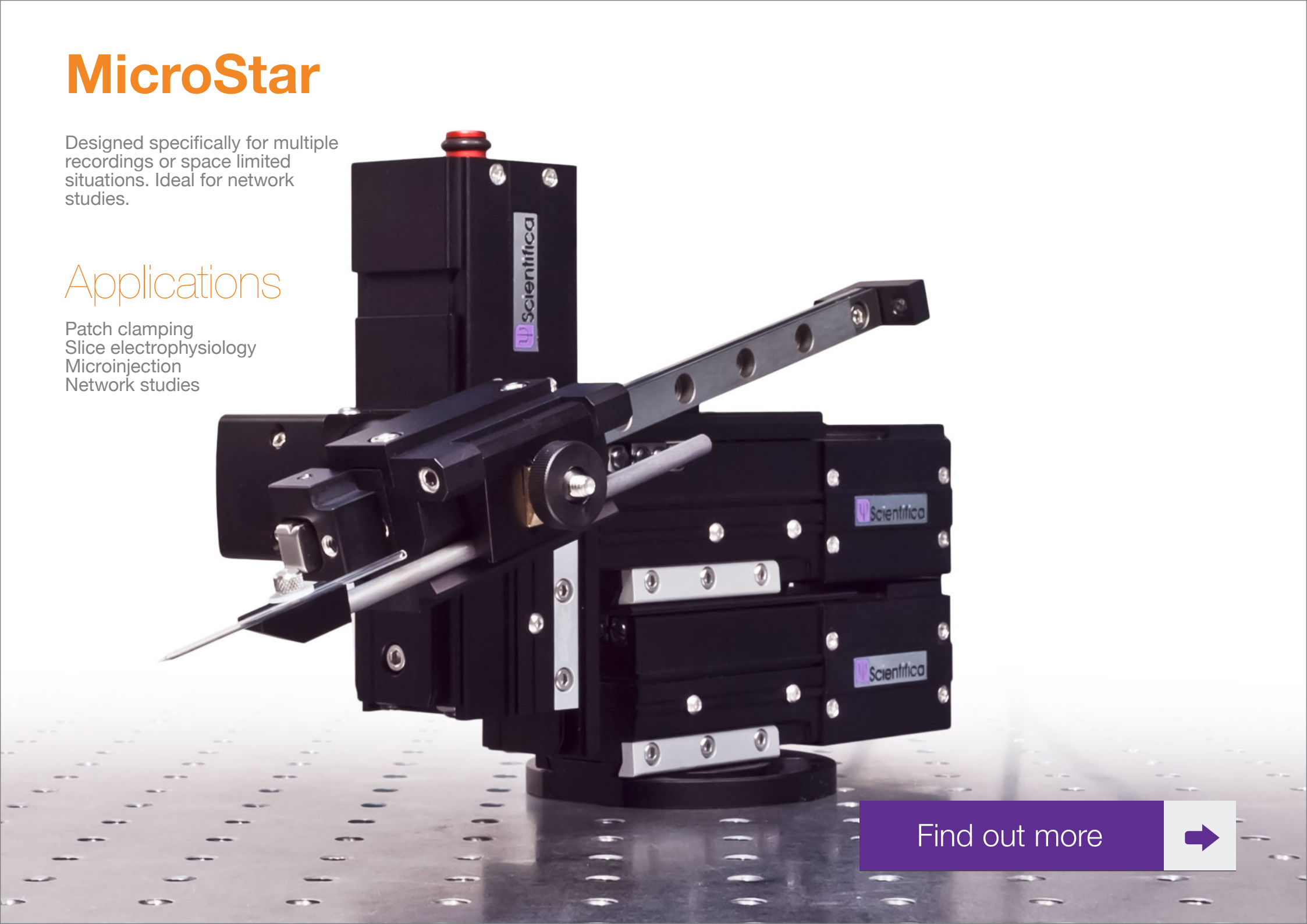

Find out more

# MicroStar

Designed specifically for multiple recordings or space limited situations. Ideal for network studies.

## Applications

Patch clamping
Slice electrophysiology
Microinjection
Network studies




Find out more

# LBM-7

A precise manual manipulator.

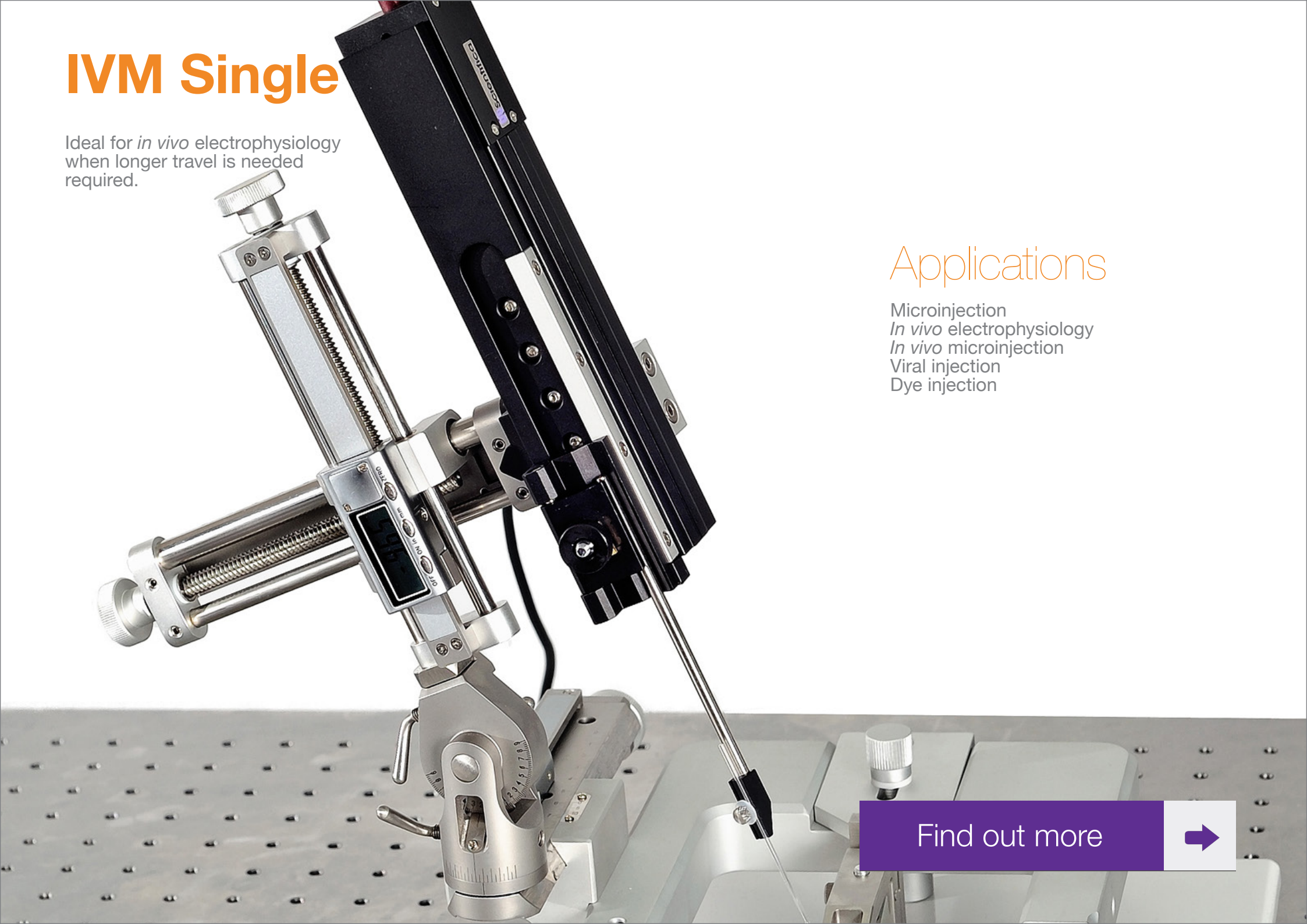
## Applications

Positioning extracellular recording probes
Directing focal perfusion systems
Positioning stimulating electrodes
Impaling oocytes for two electrode voltage clamp studies
Microinjection
Holding fibre optics for alignment or optogenetics studies

Find out more

# IVM Single

Ideal for *in vivo* electrophysiology when longer travel is needed required.



## Applications

Microinjection
*In vivo* electrophysiology
*In vivo* microinjection
Viral injection
Dye injection

Find out more

# IVM Triple

Ideal for *in vivo* electrophysiology where travel longer than 20 mm is necessary.


## Applications

Microinjection
*In vivo* electrophysiology
*In vivo* microinjection
Viral injection
Dye injection

Find out more

# IVM Mini Single

Ideal for *in vivo* electrophysiology where space is limited.

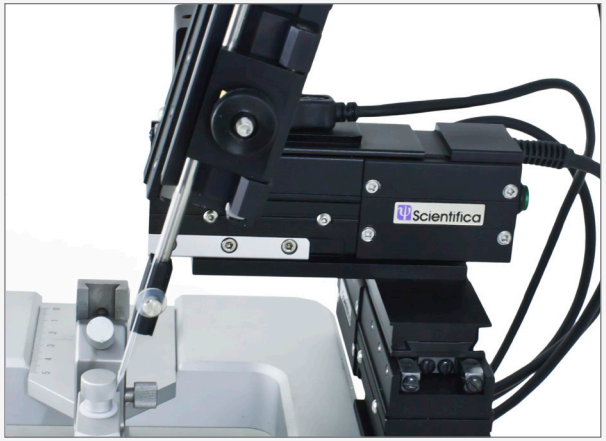

## Applications

Microinjection
*In vivo* electrophysiology
*In vivo* microinjection
Viral injection
Dye injection

Find out more

# IVM Mini Triple

Ideal for *in vivo* electrophysiology where space is limited. Great for repeatable studies and when an angled approach is important.




## Applications

Microinjection
*In vivo* electrophysiology
*In vivo* microinjection
Viral injection
Dye injection

Find out more