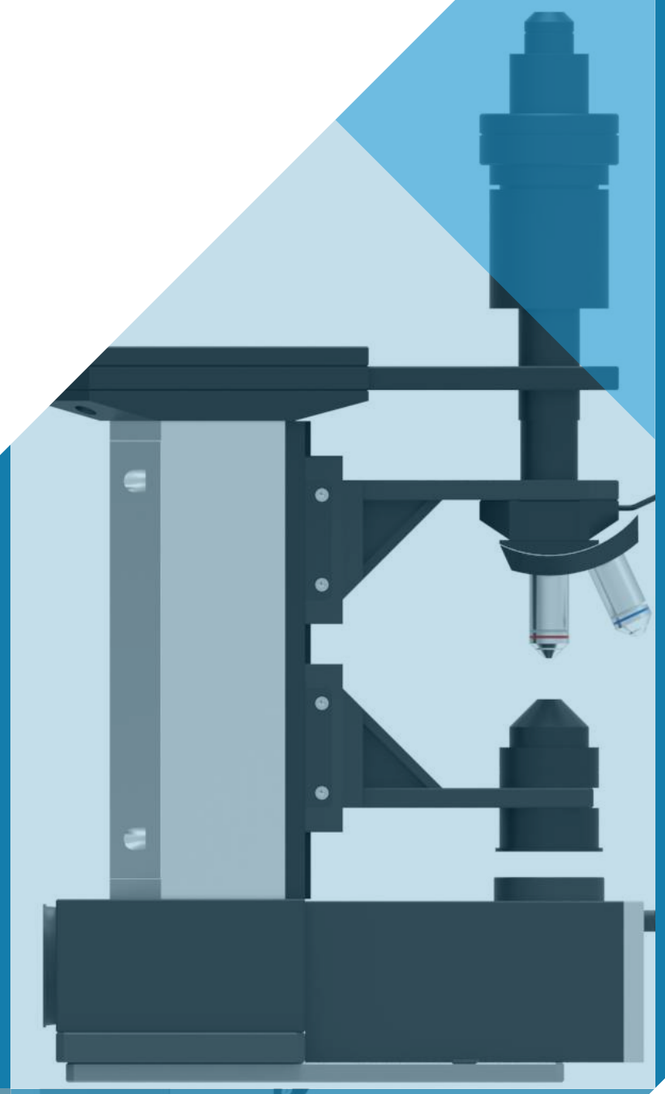
Micro
Control
Instruments



CleverScope
Wireless MicroManipulator

CleverControl Cuboid and CleverControl Software offer user logins to instantly reset settings. This feature may be very valuable on shared rigs or where work is being done on several different samples.

We don't think beyond what's currently available only from a technical perspective: For extra peace of mind, we include a 48-hour demo replacement service[2] during the warranty period. This shows how confident we are in the superior reliability and build quality of the CleverScope.

1. English, Chinese, German, French, Japanese, Spanish, Arabic, Russian, Hindi, Afrikaans

2. This means we'll send a stage via Express Service from our demo stock if your stage is malfunctioning. We'll pay for you to ship your stage back to us, if we can't service it in your lab.

Specification	Description
Resolution/Smoothness	15nm
Travel	25mm
Maximum speed	1.5mm/s (TBC)
Stability	Drift Less than 0.5µm/hr
Drive mechanism	Stepper motors
Dimension	A dimensional drawing is provided at end of brochure
Dimension	TBC
Display Size on Cuboid	3" LCD Screen
Battery capacity, Cuboid	2000mAh
Carrying capacity	1000g
Electrical Noise	Less than 1pA

Contact us today for more information at info@mcieurope.com

The MCI CleverScope
The next generation in sample stage technology.

The best stageoptions designed for the electrophysiologistdisplay some features that any experienced experimenter would expect from a leading brand. At MCI, we therefore built these essential elements into the genetic material of the CleverScope:

Stability

We conduct an individual drift-test on every stage before it gets shipped to your laboratory. You'll get your stage delivered with a birth-certificate – a short video showing an electrode mounted onto your stage over a 2-hour period under a 40x objective. An MCI stage won't leave the factory without passing a stability test of less than 500nmmovement over an hour, using a real pipette holder and headstage used in a typical laboratory environment.

Compatibility

Our Scope is an open microscope frame equipped with own branded optics that are optimised and aligned before shipping out from factory. The users can choose to use optical components from other suppliers such as Olympus then convert the scope into a fluorescence microscope and a microscope for patch clamp experiments. The open design can provide users accessibility to building a MCI CleverScope into a multi-photon microscope.

Low Noise Levels

Our stepper motor technology is optimally shielded to prevent electrical noise. We also added a new level of innovation to further reduce potential sources of electrical noise (see section on "Commitment to Innovation"), which means you can confidently use the CleverScope for recording from single ion channels.

Easily ConvertableBetween In Vivo and In Vitro applications

The MCI CleverScope offers great flexibility to convert between In Vivo and In Vitro applications. The user can use it for recording from brain slice, cultured cells and even a whole animal. The allows the users to conduct various experiments on one single device.

Smooth movement

The CleverScope's resolution of 20nm means you will be able to patch onto the smallest structures. ▹

Easy and intuitive navigation

The CleverControl Cuboid interface features highly responsive control wheels for the three axes (and the virtual diagonal axis), allowing you to comfortably navigate to your target cell. The menu options on the CleverControl Cuboid enable you to customise your stage's features so that you can easily get used to controlling your new stage.

Reliability

The CleverScope has robust stepper motors at its core – we can therefore confidently offer a 3-year warranty on our stages. ◻

So, this is what everyone would expect from a good Scope - What would make a microscopegreat?

Commitment to Innovation

MCI have gone wireless…The CleverScope has only one single, flexible cable supplying power to the stepper motors. Fewer cables make cable management so much easier around your setup - no more issues with cables putting stress on the stage body, potentially causing drift. Fewer cables also reduce the chances of electrical noise being generated by a cable acting as an antenna.

The CleverControl Cuboid interface and CleverControl Software embody MCI's global and diverse approach by having displays available in the 10 most-spoken languages[1]. We also know that 1 out of 10 scientists are left-handed...reconfiguring the CleverControl Cuboid from right-handed to left-handed configuration takes only 8 seconds (see online video for demonstration), which means the left-handed user won't feel left out when sharing a rig. The CleverControlCuboid can control up to 8 devices from a single interface, which offers more upgrade options for future expansions.

CleverControl Software offers a software interface with similar customizationfeatures to the CleverControl Cuboid. In addition, you can calibrate the "Stalker" function (when you're using a MCI motorised stage in combination with the CleverScope) and use the flexible memory position library.

With MCI's focus on innovation, you can rest assured that a lifetime of free updates on CleverControl Software will keep your stage up to date with the latest developments. ▹