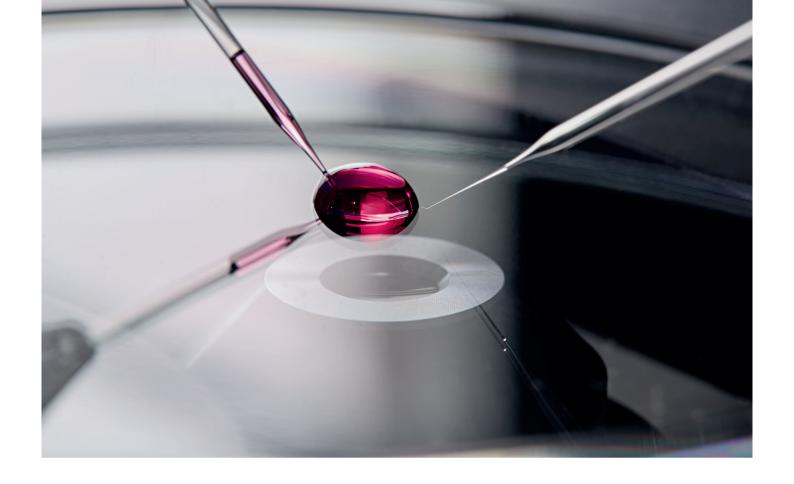


# Smooth Operator

Eppendorf equipment for IVF - TransferMan® 4m and CellTram® 4m Air/Oil



## Micromanipulation Expertise

Eppendorf has been your partner in IVF for more than twenty years. Despite rapid developments, we have always remained true to our principles of precision, quality and reliability. With the ongoing development of our products, we continue to set new standards to simplify your work.

The new micromanipulator TransferMan® 4m performs with outstanding technical performance and an overall ergonomic concept. The exceptional precision and smoothness of movements in all directions makes the TransferMan 4m the ideal platform for use in ICSI, IMSI and related techniques.

#### **Product features**

- > Unprecedented direct transmission of movement without any recognizable latency
- > Unique DualSpeed™ joystick with direct and dynamic movement control
- > Maximum stability ensures vibration-free work
- > One-hand operation for easy capillary and angle settings
- > Programmable Z-axis limit for preventing capillary breakage

Control board	TransferMan® 4m	
Control	One joystick for movement control in X-,Y-, Z-dimension	
Dimensions (W $\times$ H $\times$ D)	205 mm × 288 mm × 152 mm	
Weight (incl. mains/power supply device)	1.8 kg	
External device/PC	Serial interface SubD9, male	
Working area	Coarse, fine, x-fine	
Speed control	Proportional and dynamic kinetics	
Motor module	TransferMan® 4m	
Max. travelling distance	≥20 mm	
Weight (complete)	2.15 kg	
Stepper motor	X-, Y-, Z-module	

## The TransferMan® 4m

The user-friendly TransferMan® 4m micromanipulator combines an ergonomic and innovative operation concept that is ideal for IVF applications such as ICSI, IMSI and related techniques.

Application-specific user profiles simplify the individual workflow process with four predefined application masks to choose from (e.g. for ICSI, cell transfer, etc.). The freely programmable "My application" mask can be optimized for specific individual needs.

The unique DualSpeed™ joystick combines precise and intuitive, direct movement with dynamic movement control for covering longer distances or speeding up sample processing.

Furthermore, the dynamic movement mode can easily be switched off depending on the application need and personal preference.



The TransferMan 4m is compatible to microscopes from all major microscope brands.









<20 nm
0 – 10,000 μm/s
>80 mm
129 mm × 51 mm × 36 mm
-45° - +90°
Direction of rotation: forward (swivel out)
Direction of rotation: backward (swivel in)
0° – 90°

<sup>\*</sup> The TransferMan® 4m was designed and manufactured for the purpose of intracytoplasmic sperm injection (ICSI) within the context of human reproductive medicine. Therefore the TransferMan® 4m is a medical product in accordance with the guideline 93/42/EEC of the European Union.

## CellTram® 4m Air

Working with the new generation of CellTram is like taking a breath of fresh air. Our new manual microinjectors have been designed with special emphasis on excellent ergonomics, ease of use and highest precision.

The CellTram 4m Air is a pneumatic microinjector optimized for safe and reliable use in assisted reproductive technology. It is ideal for gentle holding of cells or embryos.

Due to its improved characteristics the CellTram 4m Air is also highly suitable for **uptake and injection of cells** (e.g., of sperm or ES cells). For this application its performance is comparable to that of oil-filled injectors.

Have you been looking for a solution to work entirely oilfree? With the CellTram 4m Air you can avoid oil contaminations and save time by omitting the filling process.





The CellTram 4m Air features single button aeration. This allows you to quickly equilibrate pressure differences between the cylinder and ambient pressure, thereby speeding up your workflow.

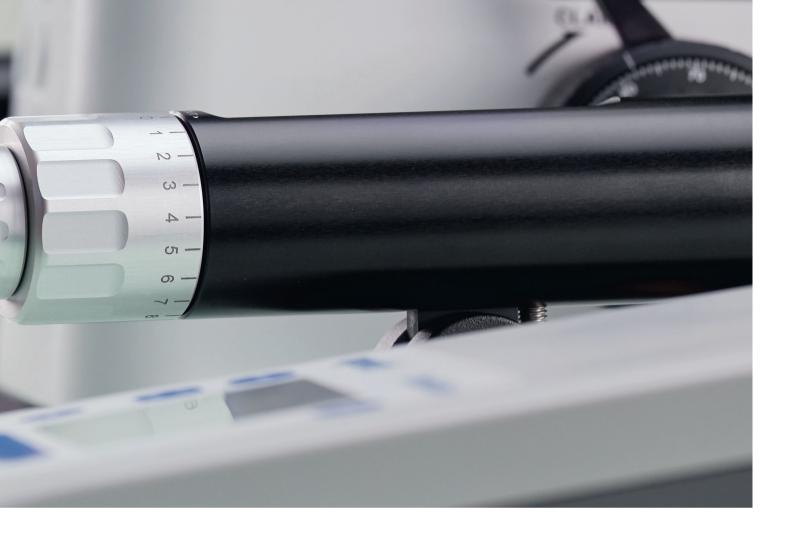
\* The CellTram 4m was designed and manufactured for injection and aspiration of cells or cellular parts in the context of ex-vivo micromanipulations in combination with suitable microcapillaries in the area of human reproductive medicine. Therefore the CellTram 4m is a medical product in accordance with the guideline 93/42/EWG of the European Union.



The right solution for your application



Intracytoplasmic sperm injection (ICSI)
For treatment of certain forms of male infertility



# Teaming up for success

While compatible with all systems, the new CellTram develops its full potential when used in combination with Eppendorf micromanipulators. The Eppendorf system offers many advantages, such as utmost smoothness of movement, fast capillary exchange and smart functions like position memory or Z-limit to prevent capillary breakage. All this helps to simplify your work and protect your precious samples.



	CellTram <sup>®</sup> 4m Air	CellTram® 4m Oil  > Aspiration and dispensing of small cells (e.g., sperm)  > Removal of cells (e.g., for embryo biopsies)	
Applications	> Gentle holding of cells in suspension (e.g., oocytes or blastocysts) > Aspiration and dispensing of small cells (e.g., sperm)		
Generation of pressure	Cylinder/piston system, air-filled	Cylinder/piston system, oil-filled	
Volume change per revolution	60 μL / 600 μL	1 μL / 10 μL	
Total volume	10 mL	1,000 μL	
Minimum adjustable volume	<100 nL	<1.5 nL	
Maximum pressure	3,000 hPa	20,000 hPa	
Injection tube	Fluorinated ethylene propylene (FEP), 1.3 m length, inner diameter 0.5 mm, outer diameter 2 mm	Fluorinated ethylene propylene (FEP), 1.3 m length inner diameter 1 mm, outer diameter 2 mm	



#### **Ordering Information**

Description	Order No.	UK/IE Order No.
TransferMan® 4m, micromanipulator with DualSpeed™ joystick for direct and dynamic movement control	5191000015	5191000031
Microscope adapters, for all common microscopes	Inquire	Inquire
Accessories for TransferMan® 4m		
Positioning aid, pack of 2, for mounting the universal capillary holder on TransferMan® 4m	5192072001	5192072001
Spare parts kit	5192071005	5192071005
Foot control, for Eppendorf micromanipulators	5252070020	5252070020
Antivibration Pad		
Antivibration Pad XS	5181301009	5181301009
Antivibration Pad S	5181303001	5181303001
Antivibration Pad M	5181305004	5181305004
Antivibration Pad L	5181307007	5181307007
Antivibration Pad XL	5181309000	5181309000
Microinjectors		
CellTram® 4m Air*1, pneumatic, manual microinjector with gear, with capillary holder 4 and injection tube Air inner diameter = 0.5mm (white ring mark)	5196000021	5196000021
CellTram® 4m Oil*1, hydraulic, manual microinjector with gear, with capillary holder 4, injection tube Oil inner diameter = 1.0mm (blue ring mark) and Filling and Cleaning set	5196000048	5196000048
Accessories for CellTram® 4m Air and CellTram® 4m Oil		
Capillary holder 4 for mounting grip heads 4	5196081005	5196081005
Grip head set 4 size 0 for microcapillaries with outer diameter 1.0 to 1.1 mm	5196082001	5196082001
Grip head set 4 size 1 for microcapillaries with outer diameter 1.2 to 1.3 mm	5196083008	5196083008
Grip head set 4 size 2 for microcapillaries with outer diameter 1.4 to 1.5 mm	5196084004	5196084004
Grip head set 4 size 3 for microcapillaries with outer diameter 0.7 to 0.9 mm	5196085000	5196085000
O-ring-set 4 for grip head sets 4	5196086007	5196086007
Injection tube Air, inner diameter = 0.5 mm (white ring mark)	5196061004	5196061004
Injection tube Oil, inner diameter = 1.0 mm (blue ring mark)	5196089006	5196089006
Filling and Cleaning set for CellTram® 4m Oil	5196089006	5196088000

## Your local distributor: www.calibrescientific.de/contact

Calibre Scientific GmbH  $\cdot$  Landwehr 2 Eingang C  $\cdot$  D 22087 Hamburg  $\cdot$  Deutschland www.calibrescientific.de



### www.calibrescientific.de