CONFIGURATION AND SPECIFICATIONS





raveling resolution Veight Operation mode Itility mode Itility mode Intensity Intensity Veight Intensions Veight Condition A/B selection Itimensions	: Approx. 0.1µm (Min) : 95g (Including wire) : 3 modes : 16 levels : 16 levels : 105(W)×145(D)×38(H) mm : 600g (Including wire) : Left pedal : Right pedal : 140(W)×280(D)×210(H) mm : 620a (Including wire)
peration mode tility mode leep/Active switch speed trensity bimensions Veight triving condition A/B selection bimensions	: 3 modes : 16 levels : 16 levels : 105(W)×145(D)×38(H) mm : 600g (Including wire) : Left pedal : Right pedal : 140(W)×280(D)×210(H) mm
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briving Condition A/B selection	: Left pedal : Right pedal : 140(W)×280(D)×210(H) mm
Condition A/B selection	: Right pedal : 140(W)×280(D)×210(H) mm
limensions	: 140(W)×280(D)×210(H) mm
Veight	- 620a (Including wire)
	. 020g (moldding wire)
Jutput	: 1
imensions	: 132.5(W)×110(D)×35(H) mm
Veight	: 3.5kg
- 40 °C (Avoid high humic	lity)
- 2,000m	
C100-240V (±10%), 50/60	H, 60VA
pare fuse(T3.15A 250V. T	1A 250V). Power code
	Veight - 40 °C (Avoid high humic - 2,000m CC100-240V (±10%), 50/60 ipare fuse(T3.15A 250V. T * Specifications and des * Micropiethe holder is

* PMM is to be used for research only

SPECIFICATIONS

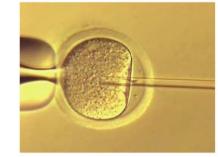
APPLICATIONS

- Intracytoplasmic sperm injection (ICSI) Kimura & Yanagimachi, Bievetyponferte (1995, tion (\$995, mouse) Yoshida et al., Nature protocols (2007, mouse)
- Cloning by nuclear microinjection Wakayama et al., Nature (1998, mouse)



Metaphase II transgenesis

- Intracytoplasmic injection of transgenic sperm Hirabayashi et al., Transgenic Research (2002, rat)
- Production of clone by somatic cell nuclear Kishigami et al., Nature protocols (2006, mouse)
- Embryonic stem cell injection
- DNA injection
- Others:cell holding operations



Perry et al., Science (2000, mouse)





ООО «БИОГЕН-АНАЛИТИКА»

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PIEZO 2MM4G



YOU ONLY FIT OUR PIEZO ONCE, SO FIT THE NO.1

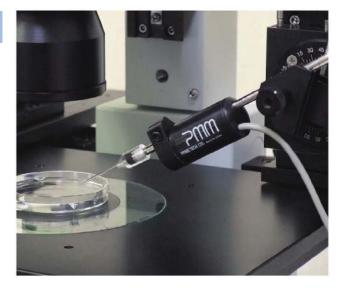


Delicate perforation of the membranes and easy operation are essential for micromanipulation. With our knowledge and well established experience in microinjection, and our long-standing expertise in piezo technology demonstrated in the very popular PMM-150FU, Primetech has created the new PIEZO PMM4G. The improvements introduced in the PIEZO PMM4G include; a smaller and more effective drive unit, a more advanced user interface with a touch screen display, multiple programmable modes including Standard, Piezo-ICSI, and Expert, and a piezo design which offers a more gentle and effective impact.

GENERAL OUTLINE OF THE PMM

The PRIME TECH PMM (Piezo Micro Manipulator) was developed to simplify and secure the operations of micro manipulation of by utilizing a rapid deformation of piezo electric elements, which is an our original driving method. The PMM prevents the cell from being deformed or damaged inadvertently and the micro pipette can be smoothly inserted into the cell membrane.

The PIEZO PMM4G has been improved: the perforate ability has been more effective and the operation has been easier than conventional "PMM-150FU"





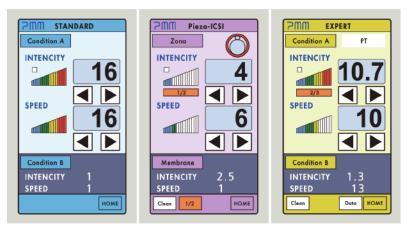


New type of user interface "TS-1"

TS-1 allows to set intensity much more

minutely than conventional operation

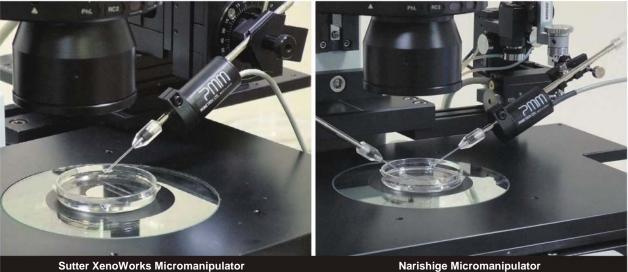
- Memory storage of the available programs
- Two conditions can be selected by simply touching the display.
- Compact and lightweight body



■ Single pulse function

box "OP-15" .

- Drive unit "MB-S" can be connected to the microinjector of each company: PRIME TECH, Sutter, Nasrishige etc.
- Mountable for many types of 3-dimensional micromanipulator: Sutter, Narishige, Leica etc.



Sutter XenoWorks Micromanipulator

- ch screen display
- Three modes for microinjection: Standard, Piezo-ICSI, Expert
- Easy setting of the operating speed and intensity