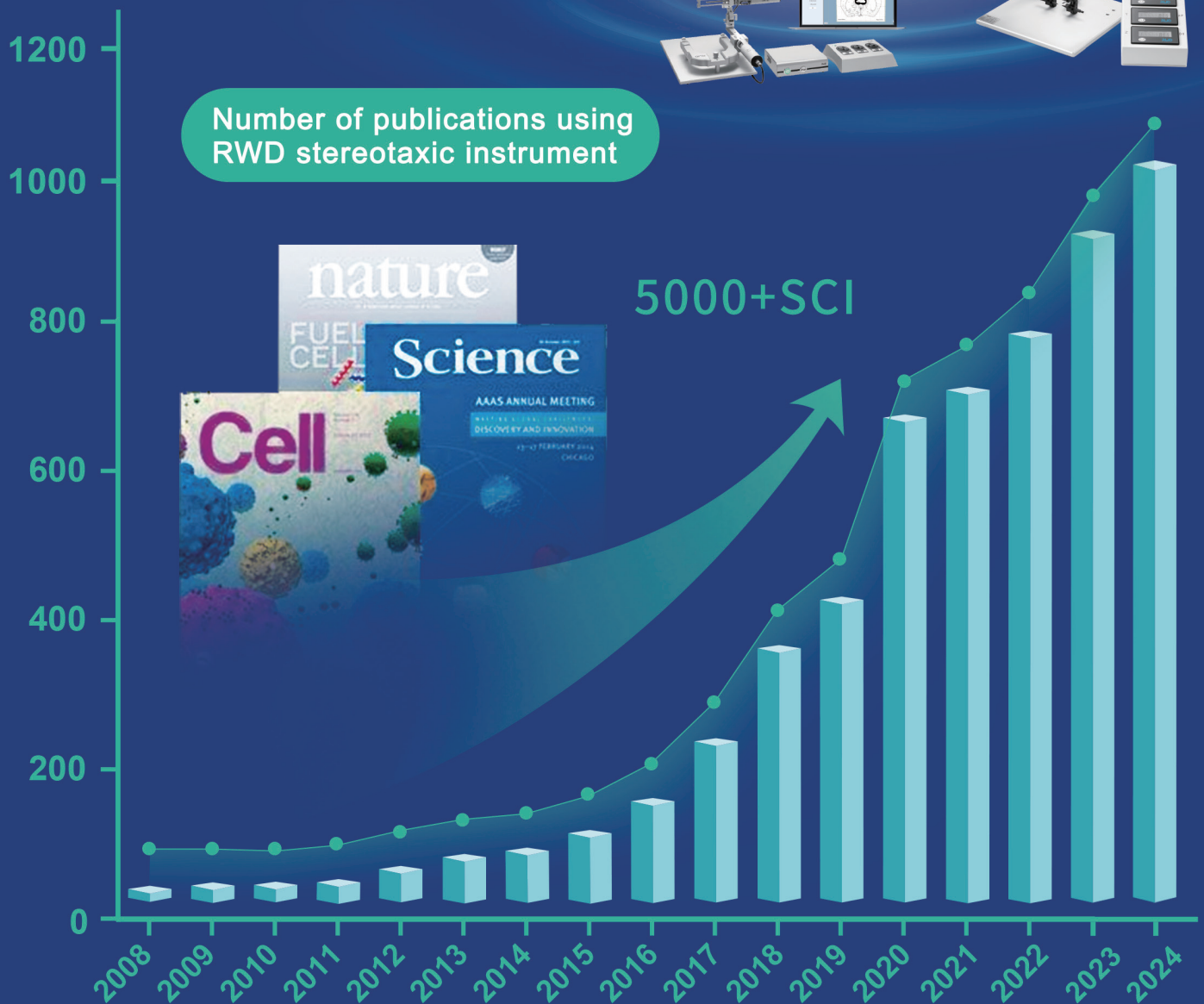


STEREOTAXIC INSTRUMENT PRODUCT CATALOG

RWD

ANIMALAB
DISCOVERY PARTNER®



Stereotaxic Instrument

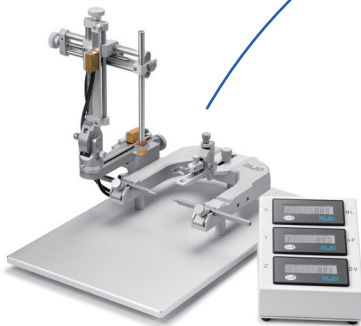
Stereotaxic instrument is an important research equipment widely used in many fields such as neuroanatomy, neurophysiology, neuropharmacology and neurosurgery. Up to now, RWD's stereotaxic instrument has helped global neuroscience researchers to publish more than 5000 articles in Cell, Nature, Science and other academic journals, and has been widely recognized in the industry.

- Meet the needs of rats, mice, pigeons, cats, rabbits, dogs, monkeys, pigs and other different animal experiments.
- Three kinds of accuracy 100 μ m, 10 μ m, 1 μ m are available.
- Except for the automated model 71000, other models can be upgraded to digital or dual manipulator models.



Automated Stereotaxic Instrument

Operation accuracy is 1 μ m; Built-in rodent brain atlas and three automatic programs.



Desktop Digital Stereotaxic Instrument

Add digital display module, displacement resolution 10 μ m.



Standard Stereotaxic Instrument



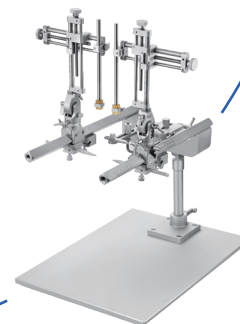
Rotational Digital Stereotaxic Instrument

Easy to adjust the skull level.



Portable Stereotaxic Instrument

The height of the teeth bar and ear bar can be adjusted for easy adjustment of the cranial level.



Large Animal Stereotaxic Instrument

Used to stereotaxic experiments of cats, dogs, monkeys and other large animals.

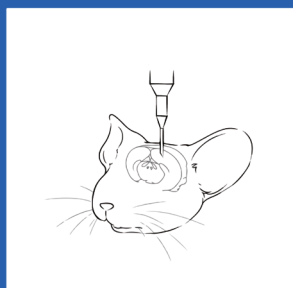
Small Animal Stereotaxic Instrument

71000 Series Automated Stereotaxic Instrument

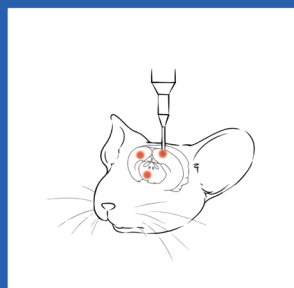
It's an automated and intelligent stereotaxic instrument with high precision (1 μm). The software has built-in rat and mouse brain atlas and automatic procedures (skull window, tissue removal and automated injection procedure), which can be observing the position of the probe relative to the brain area is convenient and efficient, and the operation is easy to use, greatly reducing the errors and damage caused by manual operation. In addition, it has an anti-collision function to prevent animal damage caused by wrong movement, which is safer.



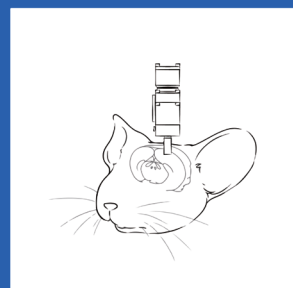
Application Scenarios:



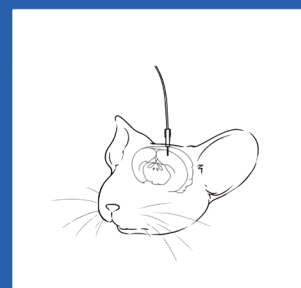
Small Nuclei Injection



Multi-point Injection



Calcium Imaging



Positioning Implant

Features:



1 μm Accuracy

Higher precision, suitable for injection of small nuclei.



Software Control

Move at a constant speed to reduce damage.











Built-in Atlas

Know the probe position in real time.



Automated Craniotomy

Optional round or square cranial window

 <p>No Leveling Required Precise positioning without leveling.</p>	 <p>Single Point Injection Control nanoliter syringe pump for automated injection.</p>	 <p>Mutil-point Injection Up to 10 points can be injected.</p>	 <p>Tilted Injection No need to manually calculate displacement after tilting.</p>
 <p>Tissue Removal Tissue removal suitable for calcium imaging experiments.</p>	 <p>Optional Dual Manipulators Bilateral brain regions of the same animal can be located.</p>	 <p>Needle Withdrawal Speed The needle withdrawal speed can reach as low as 1μm/s.</p>	 <p>One-click Movement Move to target point or entry point with one click.</p>

Precise Positioning:

High-precision stepping motor

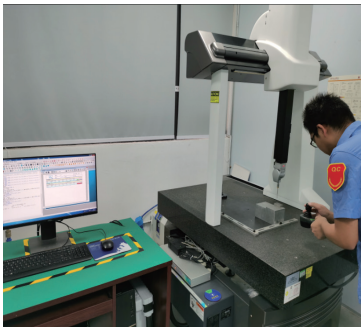
The high-precision stepper motor stably outputs a minimum step angle of 0.04, which is a minimum displacement of 0.33μm, ensuring the accuracy requirement of 1μm. A high-precision projector is used to detect the accuracy of the motor to meet the needs of higher-precision experiments.

Anti-backlash function

Eliminate the gap error caused by the movement of the screw rod and achieve higher positioning accuracy.

Frame calibration

Quickly calibrate three-axis coordinate values, users can calibrate by themselves.



Precision components

Part dimensions are measured using three-dimensional high-precision equipment, with an accuracy of micron level.

Verticality and parallelism detection

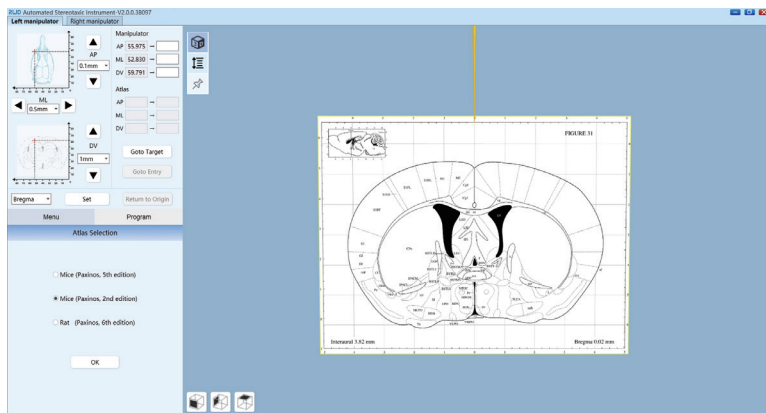
Each instrument is carefully debugged, and a dial indicator is used to detect the verticality and parallelism of the three axes to ensure the accuracy of the instrument.

Constant Speed:

The AP or ML axis has 5 adjustable speeds, the DV axis has 9 adjustable speeds, and the lowest speed in the DV direction can reach 1μm/s.

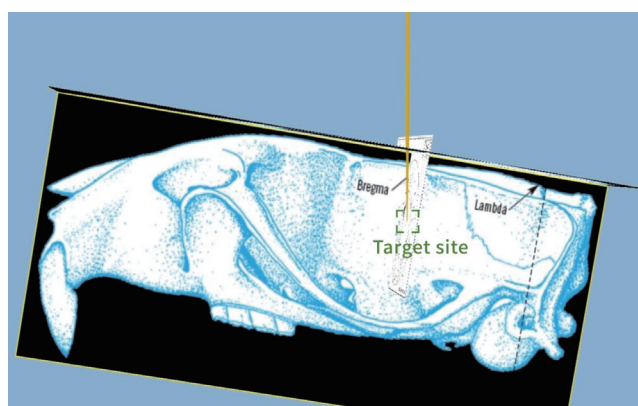
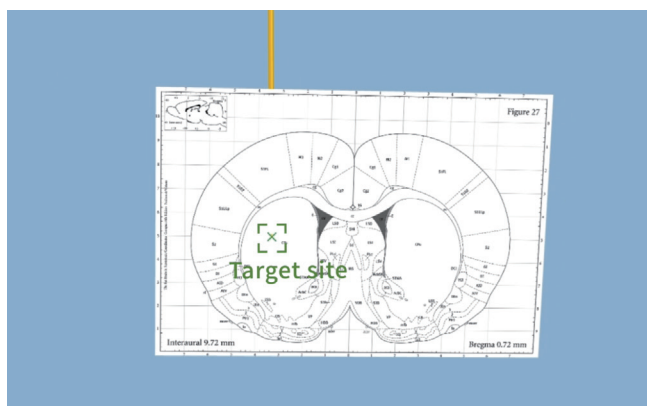
- ✓ Reduce jitter at a uniform speed to ensure precise positioning.
- ✓ Reduce mechanical damage.
- ✓ Prevent massive bleeding from affecting surgery.

Built-in Atlas:



The software integrates the rat and mouse brain atlas, which can display the movement trajectory and position of the probe in real time and keep track of the experimental progress.

No Leveling Required:



Atlas Calibration

By determining four points to determine the skull tilt angle, accurate positioning can be achieved without leveling through angle calculation. (Bregma, Lambda, 2mm left and right of the sagittal suture) At the same time, the brain atlas can be scaled according to the actual skull size, making the positioning more accurate.

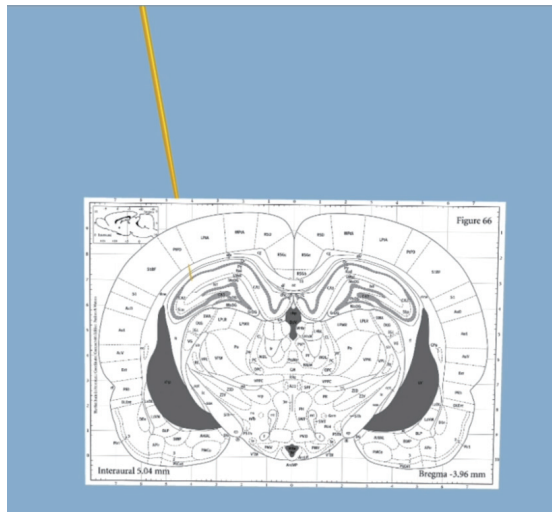
Automated Injection:

The software directly controls the nanoliter syringe pump for single-point, multi-point and tilted injection. Tilted injection also does not require manual calculation of the three-axis displacement after tilting.

- ✔ The injection precision is high, the injection volume is 0.6-5000nL, and the injection rate is 0.02-200nL/s.
- ✔ The needle withdrawal speed can be customized, with a minimum of 1 μ m/s. Slowly withdrawing the needle can prevent drugs or viruses from spilling into the needle tract.
- ✔ Multi-point injection procedure can achieve up to 10 injection sites.
- ✔ Needle retention time setting can realize automated needle retention and extraction.
- ✔ Real-time display of injection progress.

Single-point Injection

Mutil-point Injection

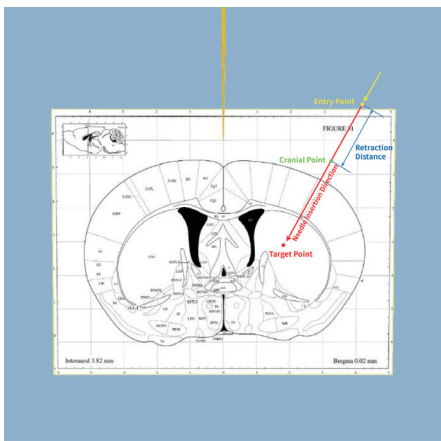


Tilted Injection

The Manipulator Tilted function is combined with the single-point or multi-point injection function to achieve single-point or multi-point injection in a tilted state.

There is no need to manually calculate the three-axis displacement distance after tilting, and the target position can be reached with one click.

Tilted Trajectory:

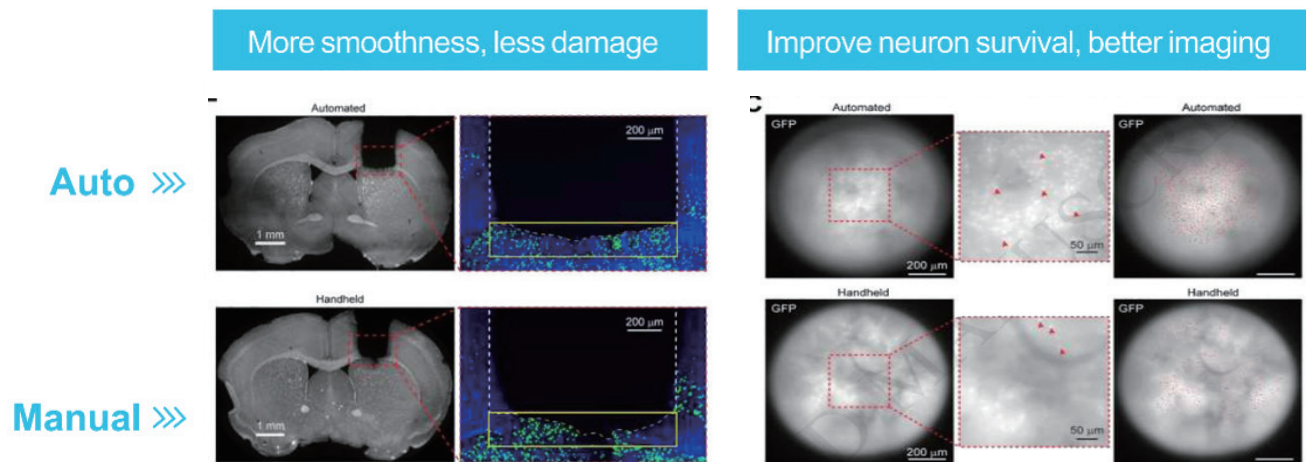


Manipulator Tilted Function

- ⊖ Traditional positioning methods require manual calculation of the three-axis displacement distance after tilting when performing experiments such as tilt injection or implantation, which is time-consuming and labor-intensive.
- ✔ The Automated Stereotaxic Instrument includes a tilted trajectory function, eliminating the need to manually calculate the displacement distance after tilting. It can be used for experiments such as tilted craniotomy, tilted injection and tilted implantation.

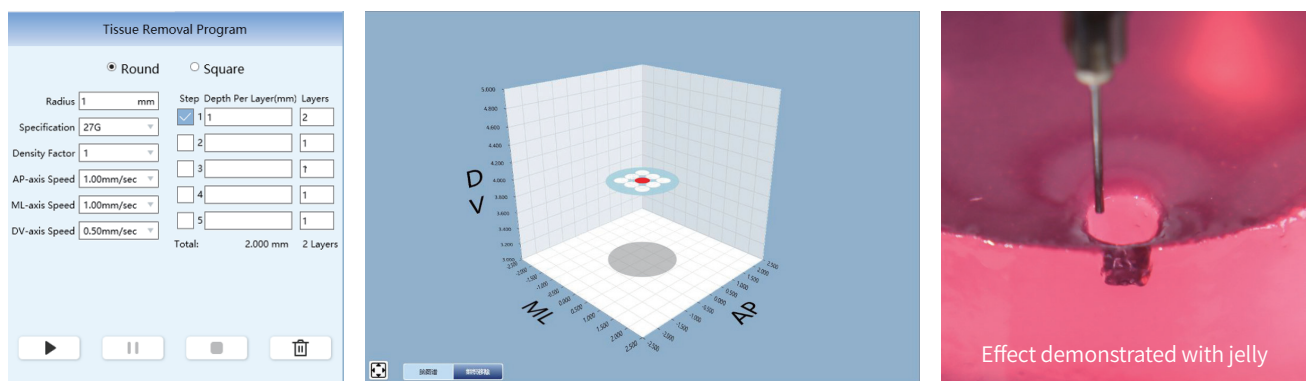
Tissue Removal:

Equipped with a tissue removal kit, it is used to remove tissue before implanting the GRIN Lens. It is suitable for miniscope calcium imaging experiments. Compared with manual tissue aspiration, fully automated aspiration ensures flat wound end surfaces, less additional neuronal damage, and better imaging as compared to manual tissue removal.



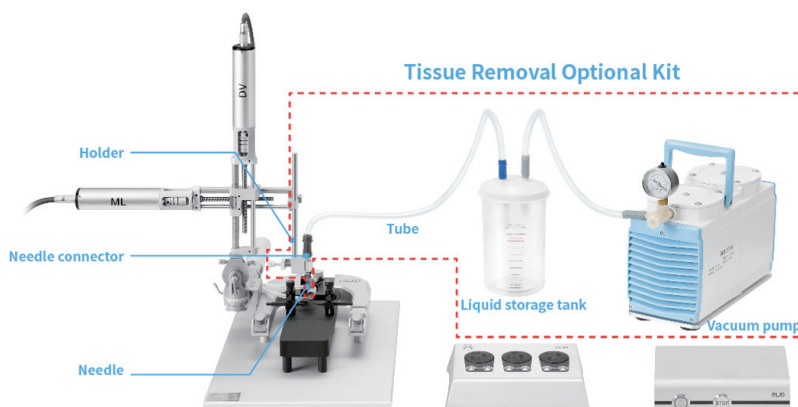
3D View

- ✔ The software can set the depth and speed of lens implantation, one-click implantation.
- ✔ The 3D view can display the current absorption position, number of layers, etc. in real time, allowing for a more intuitive view of the experimental process.



Tissue Removal Optional Kit

Negative pressure suction tissue, the suction pressure is adjustable from 0-0.095MPa, including vacuum pump, liquid storage tank, pipeline, needle, needle connector and holder, etc.



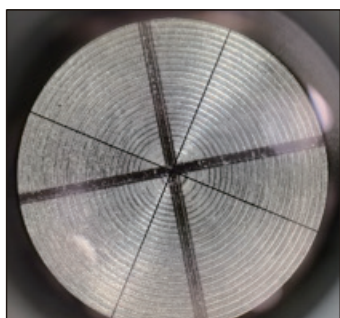
Configuration List:

Category	Model	Product Description	Remark
Stereotaxic host (without accessories)	71001-S	Automated Stereotaxic Instrument, SGL.M, Automatic Injection	Left manipulator and nanoliter injection pump included, without laptop, adaptor, ear bars, holder and mask.
	71000-S	Automated Stereotaxic Instrument, SGL.M	Left manipulator, without laptop, adaptor, ear bars, holder and mask.
	71001-D	Automated Stereotaxic Instrument, Dual.M, Automatic Injection	Two manipulators and one nanoliter injection pump included, without laptop, adaptor, ear bars, holder and mask.
	71000-D	Automated Stereotaxic Instrument, Dual.M	Two manipulators, without laptop, adaptor, ear bars, holder and mask.
Required accessories (optional)*	71000-LT	Laptop for Automated Stereotaxic Instrument (software included)	i3-1215U/8G/256G/WIN10/Set display/14".
	68055	Mouse Adaptor	68601, 68663-S, 68663, 68665 masks can be selected.
	68030	Mouse/Neonatal Rat Adaptor, 18°and 45°Ear Bars Incl.	68601, 68663-S, 68663, 68665 masks can be selected.
	68057	Anesthesia Adaptor for 20-30g Mouse, Tube, Angle-adjustible	No additional mask is required.
	68021	Rat Adaptor	68602, 68666, 68667 masks can be selected.
	68053	Rat Anesthesia Adaptor for rats less than 300g, Tube, Angle-adjustible	No additional mask is required.
	68301	Rat 18° Ear Bars	
	68306	Mouse 60° Ear Bars	
Other accessories and related products (optional))	71000-I	Injection Module for Automated Stereotaxic Instrument	Contains nanoliter injection pump + connecting wire + 3.5-inch glass capillary + 7-inch glass capillary + universal fixing accessories +68207V-attachment + filling needle + sealing material + hexagonal wrench.
	TRA-220	Tissue Removal Optional Kit (220V)	Optional when using tissue removal procedure, including needle connector, holder (68202), vacuum pump-GM-0.5 lI -220V-50HZ, liquid storage tank, connecting tube, needle.
	TRA-110	Tissue Removal Optional Kit (110V)	Optional when using tissue removal procedure, including needle connector, holder (68202), vacuum pump-GM-0.5 lI -110V-50HZ, liquid storage tank, connecting tube, needle.
	78001	Microdrill	For craniotomy.
	78040	Drill Bits HM1005 0.5mm, Round Tip, pkg of 5*	It is used together with a microdrill, usually for mice.
	78042	Drill Bits HM1005 0.8mm, Round Tip, pkg of 5*	It is used together with a microdrill, usually for rats.
	68605	Microdrill holder	Used to hold 78001 microdrill.
	GC-3.5	3.5-inch (8.89cm) glass capillary	Inner diameter 0.53mm, outer diameter 1.14mm.
	GC-7	7-inch (17.78cm) glass capillary	Inner diameter 0.53mm, outer diameter 1.14mm.

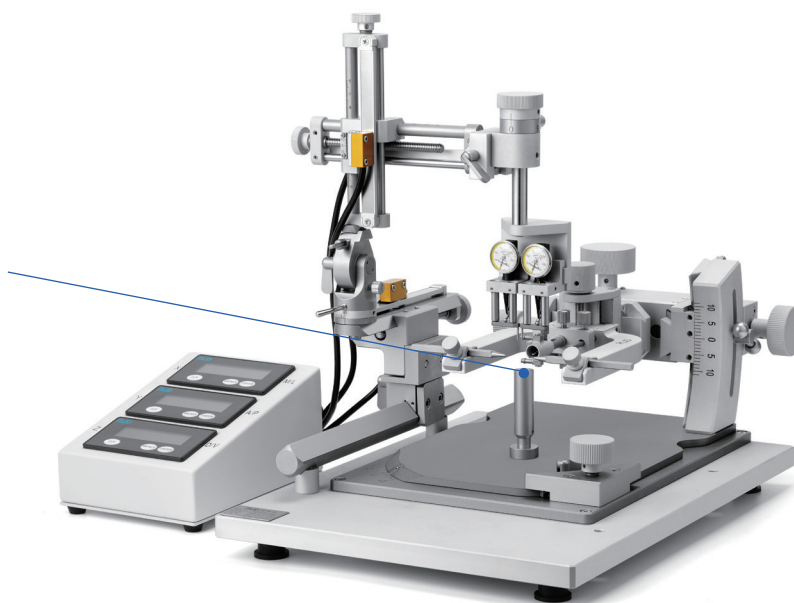
*Indicates that other specifications can be selected, which can be viewed from the product catalog of RWD.

Rotational Digital Stereotaxic Instrument

The 69100 series Rotational Digital Stereotaxic can adjust skull level and align sagittal suture quickly and accurately, and the time of skull adjustment is greatly shortened without repeated fixation.



The crossover point of the Centering Height Gauge



Features:

- Precise rotation adaptor can adjust skull position in 3 dimensional space, to maximize the adjustment of horizontal degree and the midline alignment.
- The axis of the rotation adaptor is focused on the crossover point of the Centering Height Gauge, the 40X Center Magnifier assists in adjusting the Bregma to coincide with this point and there is no need to set Bregma repeatedly.
- Improve the efficiency of skull horizontal adjustment, and the adjustment process needs no repeated fixation.
- The 40X Centering Magnifier and the Alignment Indicator assist the skull adjustment, achieving high horizontal degree and good repeatability.
- Contain an anesthetic mask that can be used with inhaled anesthetics to reduce animal mortality.
- Easy realization of 3D multi-angle fixation, easy to tilt injection or other special experiment treatments.

Recommended Accessories:

40X Central Magnifier (69133)



- Assist in finding Bregma and Lambda, to ensure that the midline is parallel to the Y axis. Assist in adjusting the Bregma to coincide with the rotation axis, no need to set the Bregma repeatedly.

Alignment Indicator (69137)



- The deflection angle difference of the Alignment Indicator can feedback horizontal level with a 0.01mm accuracy.

15° Angle Adaptor (69113)



- Easy to adjust the skull level (front to back), to meet the needs of greater adjustment.

Operating Platform for Stereotaxic (69136)



- 50mm height adjustable.

Technical parameters:

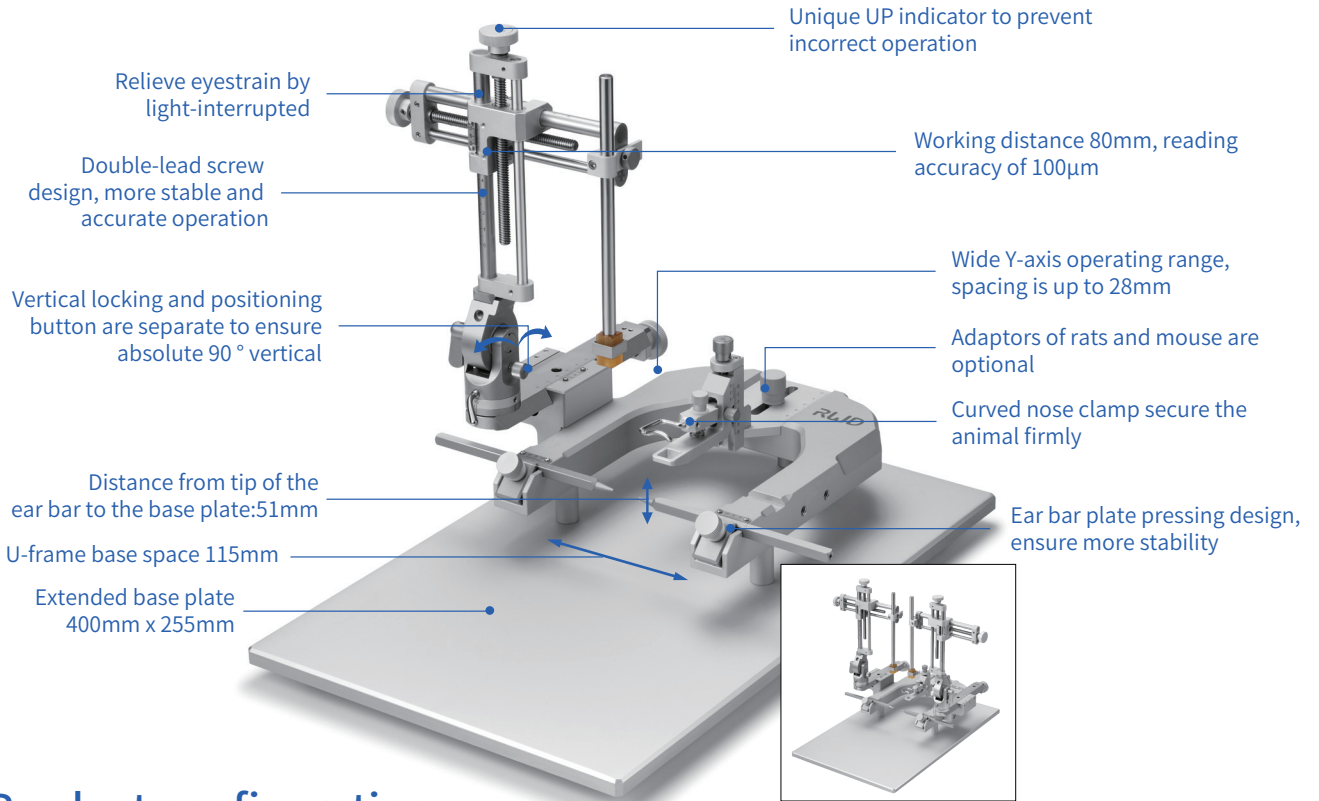
Item	Parameter
Sagittal triaxial displacement distance	30mm
Angle adjustment range (left to right)	±30°
Angle adjustment range (forth to back)	±10°
Angle adjustment range (central base plate)	±10°
X-, Y-, Z-axis operating range	80mm
Base plate	400mm X 325mm
Central Magnifier	40X
Alignment Indicator resolution	0.01mm

Order Information:

Cat No.	Product Description	Remark
69108	Rotational Digital Stereotaxic for Mouse, SGL.M, 69110, 69113, 69114, 69133, 69137	Standard configuration, contains 69110 Mouse Anesthesia Adaptor with Tubing, 69113 15° Angle Adaptor, 69114 60° Ear Bars for Mouse, 69133 40X Central Magnifier and 69137 Alignment Indicator.
69118	Rotational Digital Stereotaxic for Mouse, Dual M, 69110, 69113, 69114, 69133, 69137	
69109	Rotational Digital Stereotaxic for Rat, SGL.M, 69112, 69113, 69116, 69133, 69137	Standard configuration, contains 69112 Rat Anesthesia Adaptor with Tubing, 69113 15° Angle Adaptor, 69116 18° Ear Bars for Rat, 69133 40X Central Magnifier and 69137 Alignment Indicator.
69119	Rotational Digital Stereotaxic for Rat, Dual M, 69112, 69113, 69116, 69133, 69137	
69136	Operating Platform for Stereotaxic	
69110	Mouse Anesthesia Adaptor with Tubing(<30g)	69108, 69118 contains.
69111	Mouse Anesthesia Adaptor with Tubing(30~70g)	Not included in standard configuration, optional according to experimental needs.
69112	Rat Anesthesia Adaptor with Tubing(<300g)	69109, 69119 contains.
69114	60° Ear bars for Mouse	69108, 69118 contains.
69116	18° Ear bars for Rat	69109, 69119 contains.
69120	3-axis Digital Manipulator, Left Hand	69108, 69118, 69109, 69119 contains.
69121	3-axis Digital Manipulator, Right Hand	69118, 69119 contains.
69207	Attachment for Rotational Digital Stereotaxic Holder	

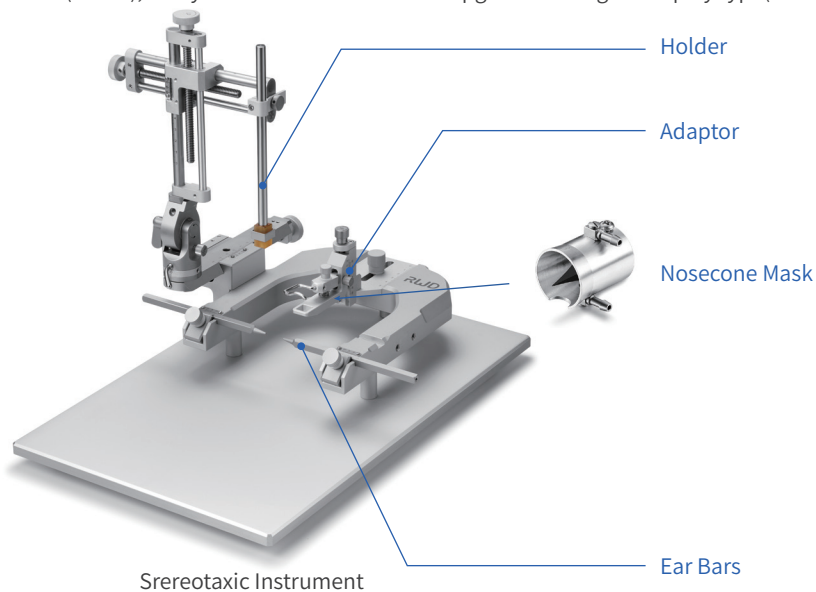
Standard Stereotaxic Instrument

Classical U-type base design, professional services in the laboratory for 20 years!
 The displacement accuracy of the standard stereotaxic instrument is 100 μm, and the classic U-shaped frame can perform stereotaxic surgery on different types of small animals by replacing the adaptor and ear bars.



Product configuration

A complete set of configurations consists of a standard stereotaxic instrument, adaptor (page 18), ear bars (page 23), holder (page 24), and nosecone mask (optional for gas anesthesia, page 22). The single manipulator type can be changed into a dual manipulator type by adding the right manipulator (68402), and you can also contact us to upgrade to a digital display type (accuracy is 10 μm).

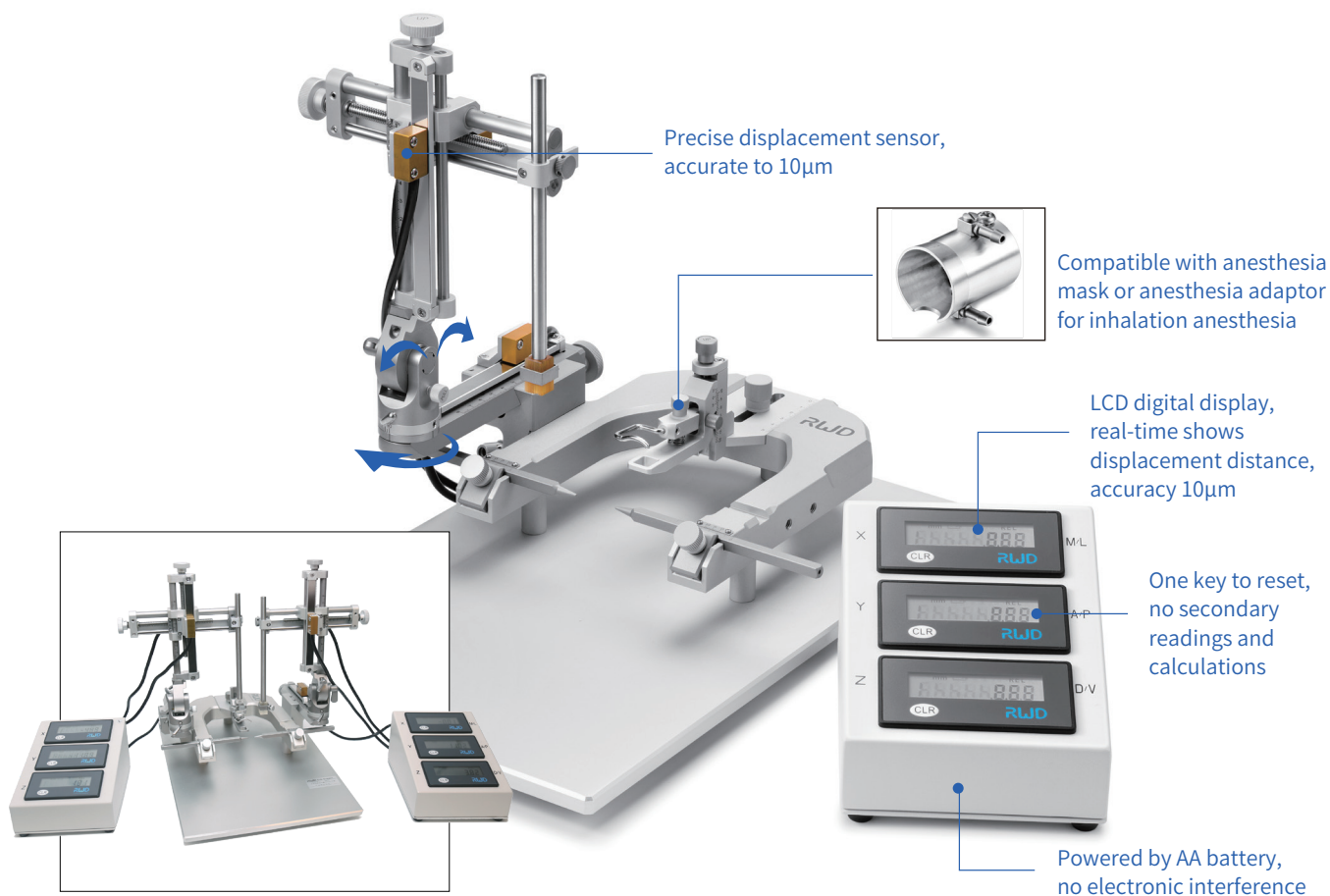


Complete Configuration=Stereotaxic Instrument+ Adaptor + Ear Bars + Holder + Nosecone Mask(optional for gas anesthesia)

Model	Product Description	Remarks
68801	Standard Stereotaxic Instrument, SGL M	Standard configuration, contains 68861N base, 68401 3-axis manipulator-left, without adaptor, ear bars, holder and mask
68802	Standard Stereotaxic Instrument, Dual M	Standard configuration, contains 68861N base, 68401 3-axis manipulator-left and 68402 3-axis manipulator-right, without adaptor, ear bars, holder and mask
68861N	Stereotaxic Base Plate, Standard	68801, 68802 include
68401	3-Axis Manipulator-Left	68801, 68802 include
68402	3-Axis Manipulator-Right	68802 include

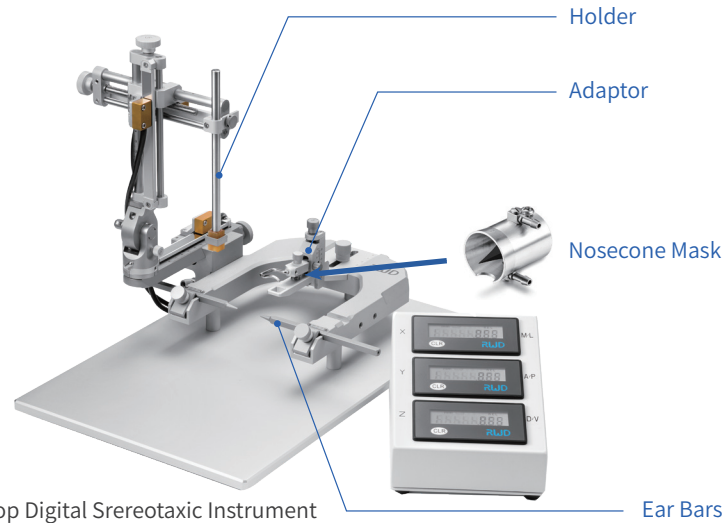
Desktop Digital Stereotaxic Instrument

The desktop digital stereotaxic instrument adds a digital display module on the basis of the standard type. The displacement sensor can display the displacement more accurately, reducing the tedious steps of manual reading. The displacement accuracy reaches 10 μm, and the origin can be set arbitrarily within the range.



Product configuration

A complete set of configurations consists of a desktop digital stereotaxic instrument, adaptor (page 18), ear bars (page 23), holder (page 24) and anesthesia nosecone mask (optional for gas anesthesia, page 22). Single manipulator models can add the manipulator-right (68410) to become dual manipulator models.



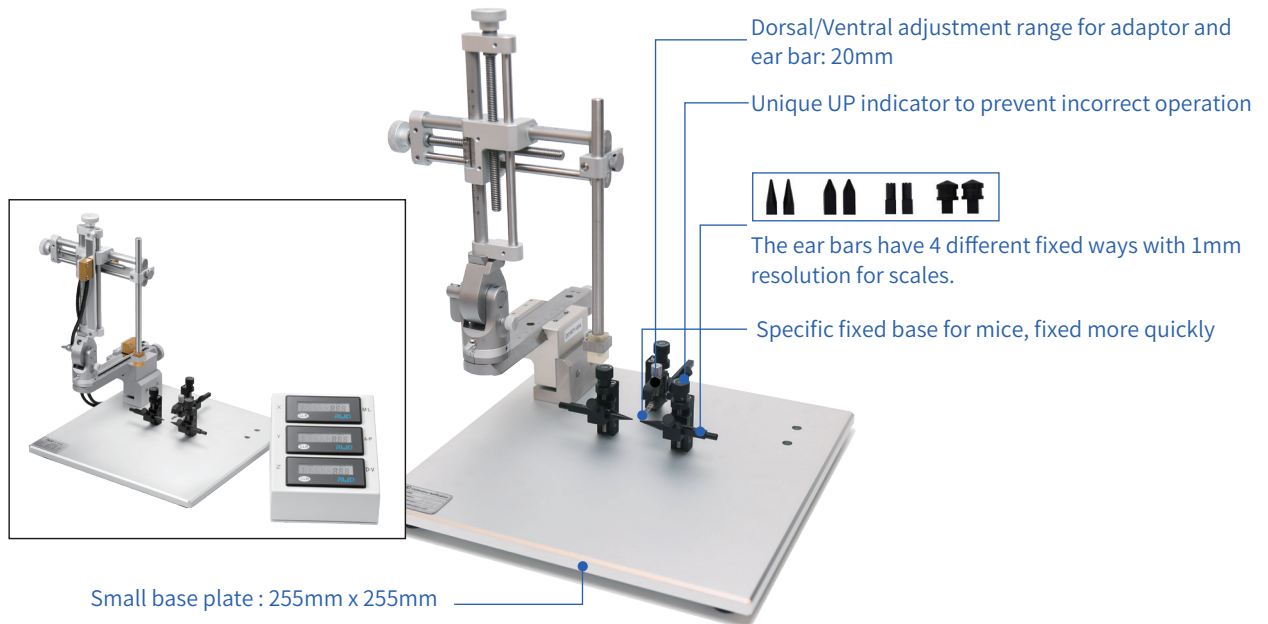
Desktop Digital Stereotaxic Instrument

Complete Configuration=Stereotaxic Instrument+ Adaptor + Ear Bars + Holder + Nosecone Mask(optional for gas anesthesia)

Model	Product Description	Remarks
68803	Desktop digital stereotaxic instrument, SGL M	Standard configuration, contains 68861N base, 68409 3-axis digital manipulator-left, without adaptor, ear bars, holder and mask.
68804	Desktop digital stereotaxic instrument, Dual M	Standard configuration, contains 68861N base, 68409 3-axis digital manipulator-left and 68410 3-axis digital manipulator-right, without adaptor, ear bars, holder and mask.
68861N	Stereotaxic Base Plate, Standard	68803B,68804B include
68409	3-Axis Digital Manipulator-Left	68803B,68804B include
68410	3-Axis Digital Manipulator-Right	68804B include

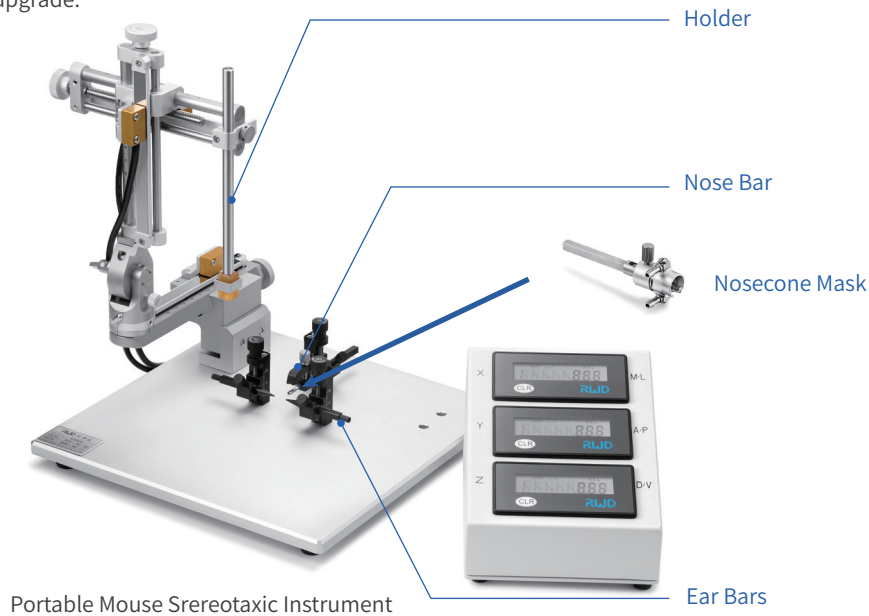
Portable Mouse Stereotaxic Instrument

- The portable stereotaxic instrument cancels the traditional U-shaped frame, and the operation space is larger;
- This type is specially designed for mouse. The height of the nose bar and ear bars can be adjusted from 0-20mm, which is convenient for adjusting the level of the skull;
- The accuracy of non-digital models is 100 μm, and the accuracy of digital models is 10 μm.



Product configuration

A complete set of configurations consists of a portable mouse stereotaxic instrument, nose bar, ear bars, holder (page 24) and anesthesia nosecone mask (optional for gas anesthesia, page 22). The single manipulator model cannot simply increase the right manipulator to become a dual manipulator model. If you already have a single manipulator model and need another manipulator, please contact us for an upgrade.

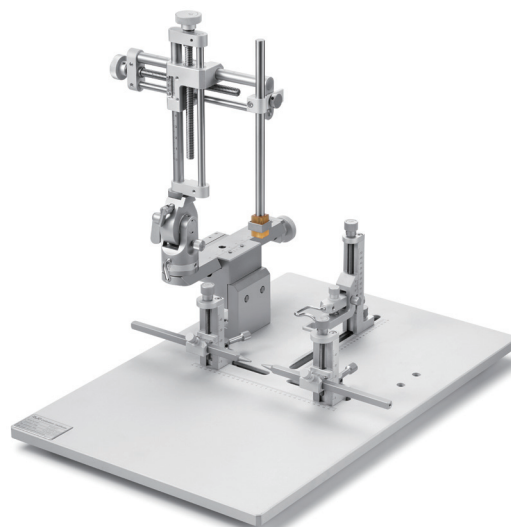
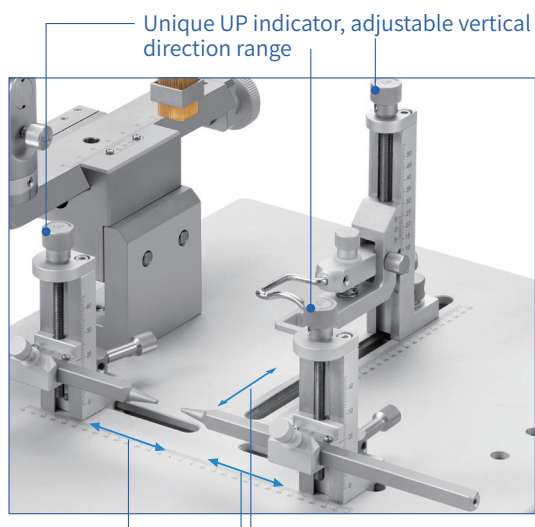


Complete Configuration=Stereotaxic Instrument+ Nose Bar + Ear Bars + Holder + Nosecone Mask(optional for gas anesthesia)

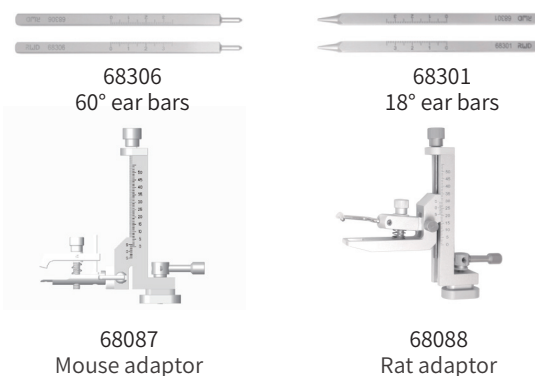
Model	Product Description	Remarks
68805	Portable Mouse Stereotaxic Instrument, SGL M	Standard configuration, non-digital model (accuracy is 100µm), including 68863S base, 68401 3-axis manipulator-left, without nose bar, ear bars, holder and mask.
68806	Portable Mouse Stereotaxic Instrument, Dual M	Standard configuration, non-digital model (accuracy is 100µm), including 68863D base, 68401 3-axis manipulator-left, 68402 3-axis manipulator-right, without nose bar, ear bars, holder and mask.
68807	Portable Mouse Stereotaxic Instrument, SGL M, Digital	Standard configuration, digital model (accuracy is 10µm), including 68863S base, 68409 3-axis digital manipulator-left, without nose bar, ear bars, holder and mask.
68808	Portable Mouse Stereotaxic Instrument, Dual M, Digital	Standard configuration, digital model (accuracy is 10µm), including 68863D base, 68409 3-axis digital manipulator-left, 68410 3-axis digital manipulator-right, without nose bar, ear bars, holder and mask.
68033	Nose Bar For 68030 Mouse Adaptor	Optional, the cross-sectional size of the nose bar is 5*5mm.
68313	45°Ear Bars For 68030 Mouse Adaptor	Optional, including two tips of 45° and rubber, the cross-sectional size of the ear bars is 5*5mm.
68034	18°Ear Bars For 68030 Mouse Adaptor	Optional, including two tips of 18° and serrated, the cross-sectional size of the ear bars is 5*5mm.

Portable Rat and Mouse Stereotaxic Instrument

- The portable stereotaxic instrument cancels the traditional U-shaped frame, and the operation space is larger;
- The adaptor and ear bars are removable for rodents of different weights;
- The height of the adaptor is adjustable from 0-55mm, and the height of the ear bars is adjustable from 0-45mm, which is convenient for adjusting the level of the skull;
- The accuracy of non-digital models is 100 µm, and the accuracy of digital display models is 10 µm.

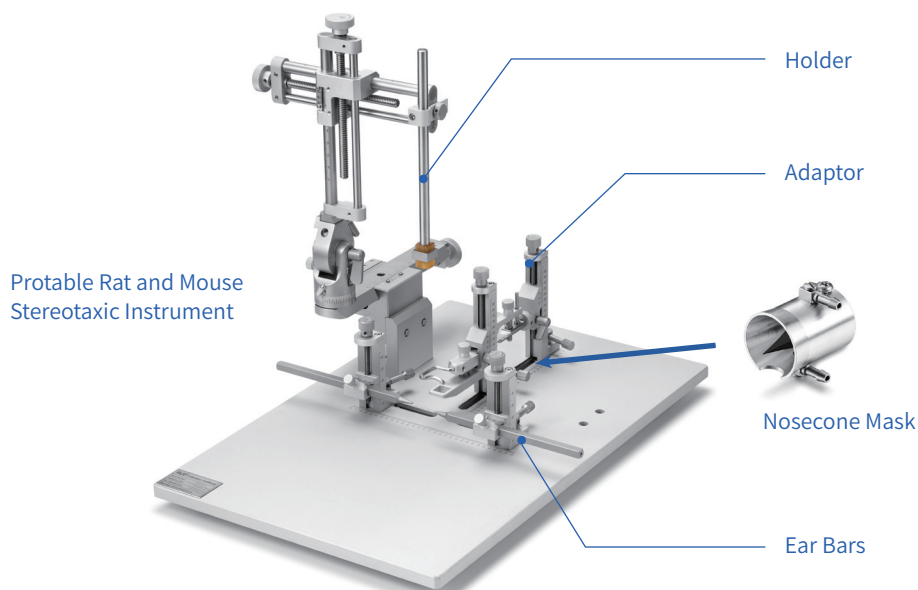


Replace ear bar & adaptors, to hold different rodents



Product configuration

A complete set of configurations consists of a portable rat and mouse stereotaxic instrument, adaptor, ear bars (page 23), holder (page 24) and anesthesia nosecone mask (optional for gas anesthesia, page 22) composition. The single manipulator model cannot simply increase the right manipulator to become a dual manipulator model. If you already have a single manipulator model and need another manipulator, please contact us for an upgrade.

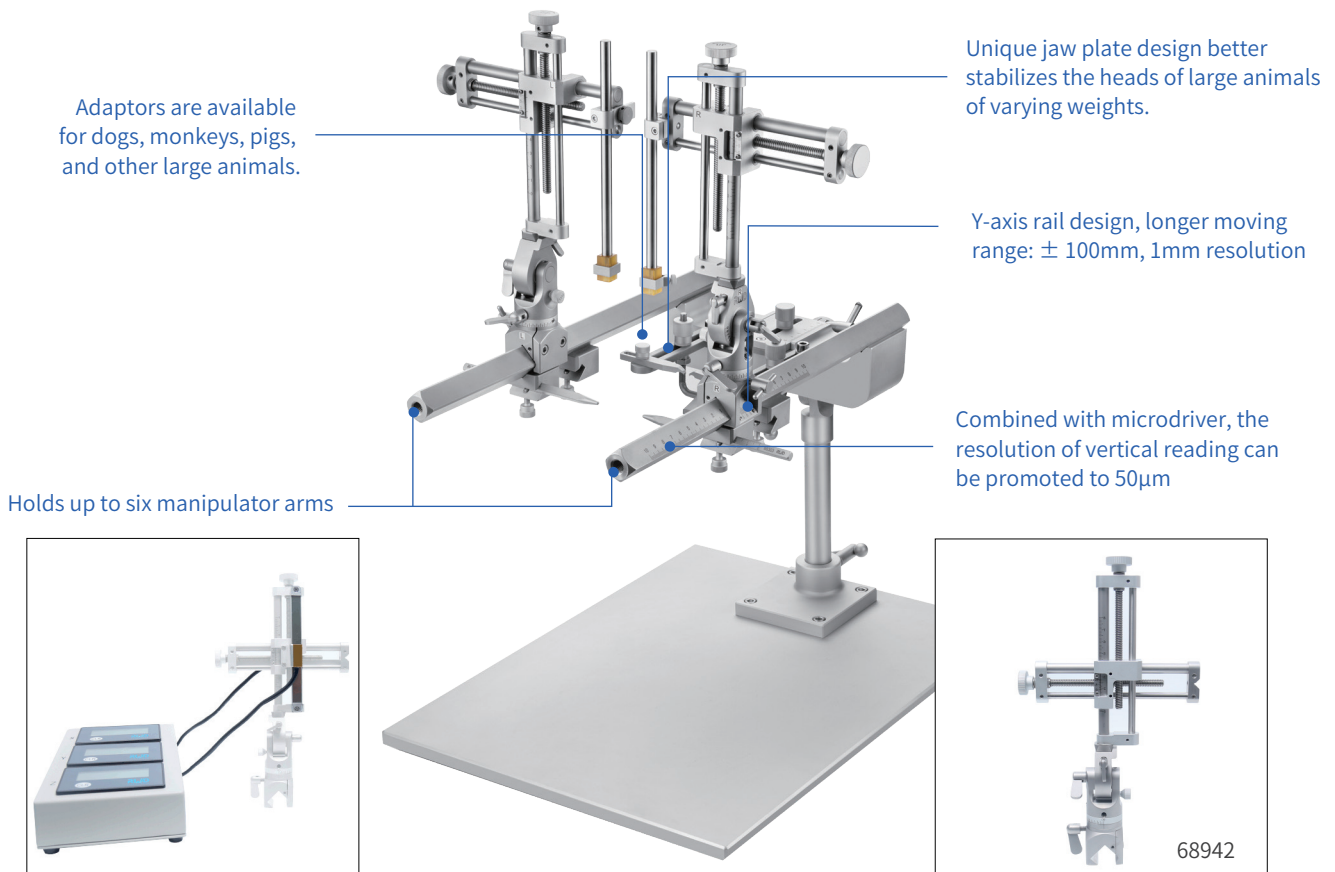


Complete Configuration=Stereotaxic Instrument+ Adaptor + Ear Bars + Holder + Nosecone Mask(optional for gas anesthesia)

Model	Product Description	Remarks
68809	Portable Rat and Mouse Stereotaxic Instrument, SGL M	Standard configuration, non-digital model (accuracy is 100µm), including 68867S base, 68401 3-axis manipulator-left, without adaptor, ear bars, holder and mask.
68810	Portable Rat and Mouse Stereotaxic Instrument, Dual M	Standard configuration, non-digital model (accuracy is 100µm), including 68867D base, 684013-axis manipulator-left, 68402 3-axis manipulator -right, without adaptor, ear bars, holder and mask.
68811	Portable Rat and Mouse Stereotaxic Instrument, SGL M, Digital	Standard configuration, digital model (accuracy is 10µm), including 68867S base, 68409 3-axis digital manipulator-left, without adaptor, ear bars, holder and mask.
68812	Portable Rat and Mouse Stereotaxic Instrument, Dual M, Digital	Standard configuration, digital model (accuracy is 10µm), including 68867D base, 68409 3-axis digital manipulator-left, 684103-axis digital manipulator-right, without adaptor, ear bars, holder and mask.
68087	Mouse Adaptor	Only used for portable rat and mouse stereotaxic instrument
68088	Rat Adaptor	Only used for portable rat and mouse stereotaxic instrument

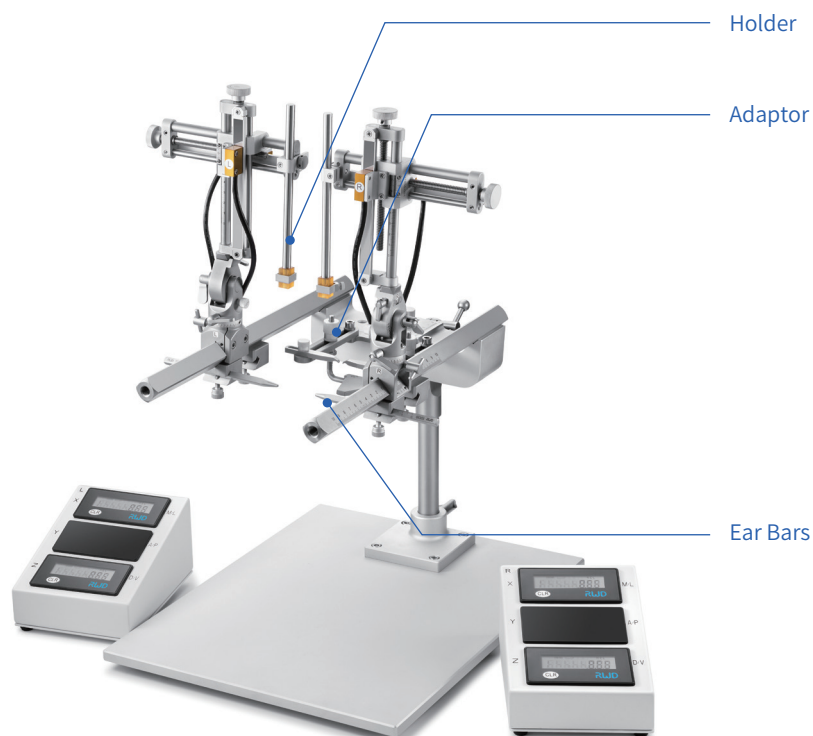
Large Animal Stereotaxic Instrument

- Large animal stereotaxic instrument is suitable for cats, dogs, monkeys, pigs, etc.;
- It contains a two-dimensional manipulator (X, Z axis). The accuracy of the non-digital model is 100 µm, and the accuracy of the digital model is 10 µm;
- Two kinds of adaptors are optional, the 68081 monkey adaptor is generally suitable for large animals of 10-30kg, and the 68041 is generally suitable for large animals below 10kg.



Product configuration

A complete set of configurations consists of a large animal stereotaxic instrument, an adaptor (page 18), ear bars (page 23), holder (page 24). A single manipulator model can add the right manipulator to become a dual manipulator model.



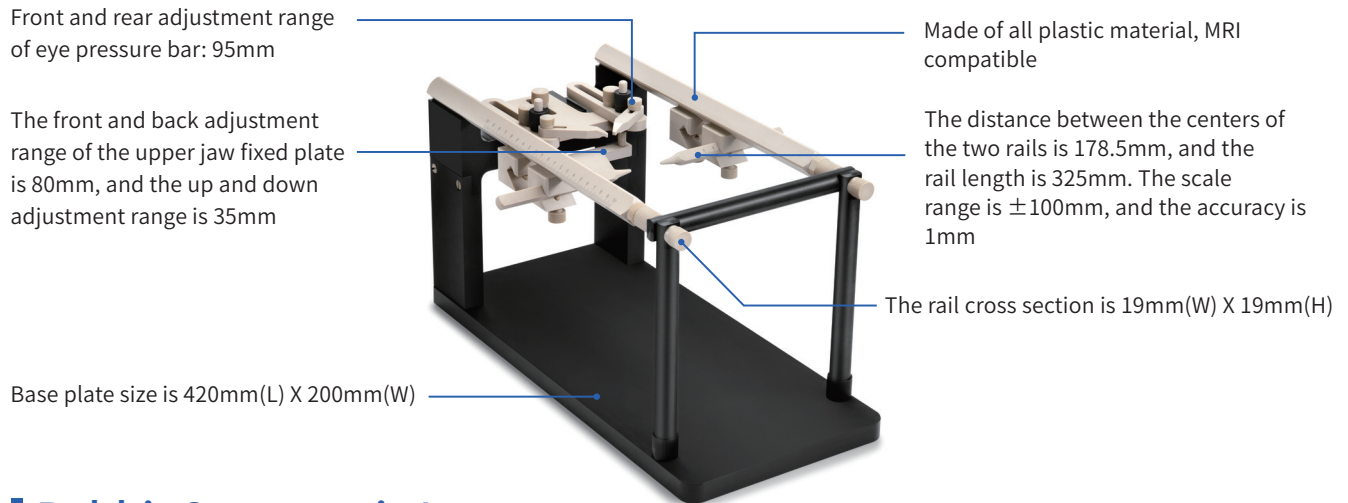
Large Animal Stereotaxic Instrument

Complete Configuration=Stereotaxic Instrument+ Adaptor + Ear Bars + Holder

Model	Product Description	Remarks
68813	Stereotaxic for Large Animals, SGL M.	Standard configuration, non-digital display model (accuracy 100µm), including 68868N base, 689412-axis manipulator-left, without adaptor, ear bars, holder.
68814	Stereotaxic for Large Animals, Dual M.	Standard configuration, non-digital display model (accuracy 100µm), including 68868N base, 689412-axis manipulator-left, 68942 2-axis manipulator-right, without adaptor, ear bars and holder.
68815	Stereotaxic for Large Animals, SGL M, Digital	Standard configuration, digital display model (accuracy 10µm), including 68868N base, 68944 2-axis digital manipulator-left, without adaptor, ear bars, holder.
68816	Stereotaxic for Large Animals, Dual M, Digital	Standard configuration, digital display model (accuracy 10µm), including 68868N base, 68944 2-axis digital manipulator-left, 68945 2-axis digital manipulator-right, without adaptor, ear bars and holder.
68941	2-axis Manip for Dog/Monkey Stereotaxic, Left	68813, 68814 include
68942	2-axis Manip for Dog/Monkey Stereotaxic, Right	68814 includes
68944	2-axis Digital Manip for Dog/Monkey Stereotaxic, Left	68815, 68816 include
68945	2-axis Digital Manip for Dog/Monkey Stereotaxic, Right	68816 includes

MRI Large Animal Stereotaxic Instrument Base

MRI Large Animal Stereotaxic Instrument Base (68915) is generally used to perform intracranial imaging in the MRI environment after fixing the craniocerebral of 10-30kg animals, and then locate the brain region according to the images obtained by the MRI scan (The positioning of the brain region needs to purchase the manipulator shown in P 16 separately, and the manipulator is not made of MRI-compatible material).



Rabbit Stereotaxic Instrument

Rabbit Stereotaxic Instrument has a heightened base on the basis of the Standard Stereotaxic Instrument to adapt to the size of the rabbit. The following models include the base, the manipulator, the rabbit adaptor (no additional ear bars are required) and the holder .

Model	Product Description	Remarks
68930	Standard Stereotaxic Instrument for Rabbit, SGL M	Standard configuration, non-digital model (accuracy is 100 μ m), including base, 68401 3-axis manipulator-left, 68084 rabbit adaptor and 68201 holder.
68931	Standard Stereotaxic Instrument for Rabbit, Dual M	Standard configuration, non-digital model (accuracy is 100 μ m), including base, 68401 3-axis manipulator-left, , 68402 3-axis manipulator-right, 68084 rabbit adaptor and 68201 holder.
68932	Standard Stereotaxic Instrument for Rabbit, SGL M, Digital	Standard configuration, digital model (accuracy is 10 μ m), including base, 68409 3-axis digital manipulator-left, 68084 rabbit adaptor and 68201 holder.
68933	Standard Stereotaxic Instrument for Rabbit, Dual M, Digital	Standard configuration, digital model (accuracy is 10 μ m), including base, 68409 3-axis digital manipulator-left, , 68410 3-axis digital manipulator-right, 68084 rabbit adaptor and 68201 holder.

Customized Stereotaxic Instrument

The following stereotaxic instruments are customizable, please confirm the size with us.

Model	Product Description	Remarks
68040C	Stereotaxic Instrument for Pigeon, SGL M, Digital, Customized	
68042C	Stereotaxic Instrument for Pigeon, Dual M, Digital, Customized	
68047C	Stereotaxic Instrument for Pigeon, SGL M, Customized	
68048C	Stereotaxic Instrument for Pigeon, Dual M, Customized	
68914C	Stereotaxic Instrument for Pig, Dual M, Customized	Suitable for large animals over 50kg
68918C	Stereotaxic Instrument for Pig, Dual M, Digital, Customized	
68919C	Stereotaxic Instrument for Pig, Four M, Customized	
68910C	Stereotaxic Instrument for Pig, SGL M, Customized	

Adaptor

Brain Adaptor List

Model	Product Description	Remarks
68055	Mouse Adaptor	It can be used in standard, desktop digital and automated stereotaxic instruments. 68601, 68663-S, 68663, 68665 masks can be selected.
68030	Mouse/Neonatal Rat Adaptor, 18°and 45°Ear Bars Incl.	It can be used in standard, desktop digital and automated stereotaxic instruments. 68601, 68663-S, 68663, 68665 masks can be selected. It comes with two pairs of ear bars (68034, 68313).
68057	Anesthesia Adaptor for 20-30g Mouse, Tube, Angle-adjustible Anesthesia	It can be used in standard, desktop digital and automated stereotaxic instruments. No additional mask is required. It is generally used for 20-30g mouse. Compared with 68077, the nose bar of 68057 can swing up and down 70° ($\pm 35^\circ$), which is beneficial to adjust the skull level.
68057-S	Adaptor for 10-20g Mouse, Tube, Angle-adjustible	It can be used in standard, desktop digital and automated stereotaxic instruments. No additional mask is required. It is generally used for 10-20g mouse. Compared with 68077-S, the nose bar of 68057-S can swing up and down 70° ($\pm 35^\circ$), which is beneficial to adjust the skull level.
68077	Anesthesia Adaptor for 20-30g Mouse, Tube	It can be used in standard, desktop digital and automated stereotaxic instruments. No additional mask is required. It is generally used for 20-30g mouse.
68077-S	Anesthesia Adaptor for 10-20g Mouse, Tube	It can be used in standard, desktop digital and automated stereotaxic instruments. No additional mask is required. It is generally used for 10-20g mouse.
68065	Rotational Mouse Adaptor, 60°Ear Bars Incl.	It can be used in standard, desktop digital, automated stereotaxic instruments and 68099 II precise impactor. 68601, 68663-S, 68663, 68665 anesthesia masks can be selected. It comes with 60° ear bars.
68014	Neonatal Mouse Adaptor, 20°and 45°Ear Bars Incl.	It can be used in standard, desktop digital, portable rat and mouse, automated stereotaxic instruments, directly placed on the base plate of the stereotaxic. Suitable for mouse over 3 weeks old, the anesthesia mask is recommended to choose 68663-S.
68072	Neonatal Mouse Anesthesia Adaptor Kit	It can be used in standard, desktop digital, portable rat and mouse, automated stereotaxic instruments, directly placed on the base plate of the stereotaxic. Suitable for mouse within one week.
68069	MRI Compatible Mouse Adaptor	It can be used in standard, desktop digital, portable rat and mouse, automated stereotaxic instruments, directly placed on the base plate of the stereotaxic. The MRI type is generally used for MRI imaging of the brain of animals, and then placed on the stereotaxic for positioning after imaging.
68021	Rat Adaptor	It can be used in standard, desktop digital and automated stereotaxic instruments. 68602, 68666, 68667 masks can be selected.
68053	Rat Anesthesia Adaptor for rats less than 300g, Tube, Angle-adjustible	It can be used in standard, desktop digital and automated stereotaxic instruments. No additional mask is required. It is generally used for rats less than 300g. Compared with 68078, the nose bar of 68053 can swing up and down 70° ($\pm 35^\circ$), which is beneficial to adjust the skull level.
68078	Rat Anesthesia Adaptor for rats less than 300g, Tube	It can be used in standard, desktop digital and automated stereotaxic instruments. No additional mask is required. It is generally used for rats less than 300g.
68063	Rotational Mouse Adaptor, 60°Ear Bars Incl.	It can be used in standard, desktop digital and automated stereotaxic instruments. 68602, 68666, 68667 masks can be selected.
68011	MRI Compatible Rat Adaptor	It can be used in standard, desktop digital, portable rat and mouse, automated stereotaxic instruments, directly placed on the base plate of the stereotaxic. The MRI type is generally used for MRI imaging of the brain of animals, and then placed on the stereotaxic for positioning after imaging.
68022	Rat Aural Adaptor	It can be used in standard, desktop digital and automated stereotaxic instruments.
68041	Cat/Monkey Adaptor	It is suitable for large animal stereotaxic, and is generally used for cats, dogs, monkeys, etc. under 10kg. Before purchasing, please confirm the animal's head width, distance from nose to eyes, mouth width and other information with RWD.
68081	Dog/Monkey/Pig Adaptor	It is suitable for large animal stereotaxic, and is generally used for 10-30 kg cats, dogs, monkeys, etc. Before purchasing, please confirm the animal's head width, distance from nose to eyes, mouth width and other information with RWD.

Model	Product Description	Remarks
68084	Rabbit Adaptor	It is suitable for rabbit stereotaxic instrument.

Spinal Cord Adaptor List

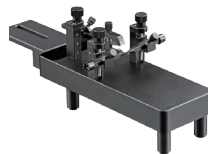
Model	Product Description	Remarks
68091	Rat and Mouse Spinal Cord Adaptor	Universal for rats and mouse, within 500 g.
68094	Mouse Spinal Cord Adaptor	It is suitable for 20-30g mouse.
68095	Rat Spinal Cord Adaptor	It is suitable for 200-300g rats.

Mouse Adaptor



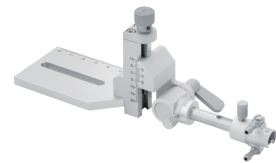
68055 Mouse Adaptor

The vertical adjustment range of the adaptor is 30mm (-20mm~+10mm), and the adjustment accuracy is 100um; the front and rear adjustment range of the adaptor is 43.5mm; the rotatable angle range of the head is 35°. 68601, 68663S, 68663, 68665 anesthesia masks can be selected.



68030 Mouse/Neonatal Rat Adaptor

Including 18° ear bars (68034) and 45° ear bars (68313), four kinds of ear bars tips are available, serrated and rubber tips can not only fix the head of neonatal rats, but also avoid damage to the skull of neonatal rats, the height of the incisors and ear bars are adjustable, the height adjustable range is 20mm. Nose clip model is 68033. Compatible with 68601, 68663-S, 68663, 68665 anesthesia masks.



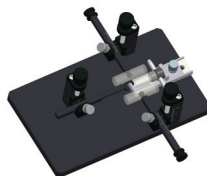
68057-S/68057 Mouse Anesthesia Adaptor

68057-S is for 10-20g mouse and 68057 is for 20-30g mouse. Both contain an anesthesia mask. The vertical adjustment range is 30mm (-20mm ~ +10mm), and the adjustment accuracy is 100um; the vertical rotatable angle range is 70° (-35°~+35°), and the adjustment accuracy is 5°; the horizontal rotatable angle range is 70° (-35° ~+35°), and the adjustment accuracy is 5°; the front and rear adjustment range is 43.5mm. The inlet and outlet of the gas anesthesia mask use a 3mm inner diameter tube.



68077-S/68077 Mouse Anesthesia Adaptor

68077-S is for 10-20g mouse and 68077 is for 20-30g mouse. Both contain an anesthesia mask. The vertical adjustment range is 30mm (-20mm ~ +10mm), and the adjustment accuracy is 100um; the front and rear adjustment range is 43.5mm. The inlet and outlet of the gas anesthesia mask use a 3mm inner diameter tube.



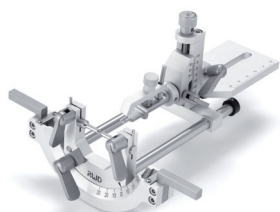
68072 Neonatal Mouse Adaptor

Suitable for newborn mice (within 1 week), the ear bars are made of flexible tubes, which can not only fix the newborn mouse well but also minimize the damage.



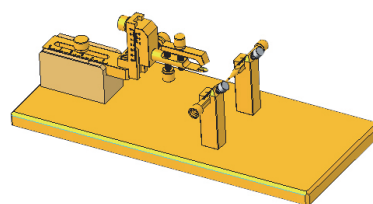
68014 Neonatal Mouse Adaptor

Suitable for mouse over 3 weeks old. Including 20° ear bars (68315) and 45° ear bars (68316). The height adjustable range of incisors and ear bars is 20mm.



68065 Rotational Mouse Adaptor

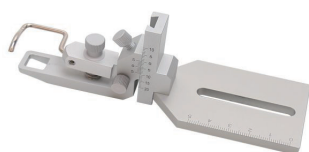
The head of the mouse can be rotated according to the experimental requirements, so that it is convenient to operate the various angles of the mouse head. The adjustment range of the adaptor is 30mm up and down, and the adjustment accuracy is 100µm. The adjustment range of the adaptor is 43.5mm, and the head can be rotated at an angle of 60°, and the tip of the ear bars is 60°. Compatible with 68601, 68663-S, 68663, 68665 anesthesia masks.



68069 MRI Compatible Mouse Adaptor

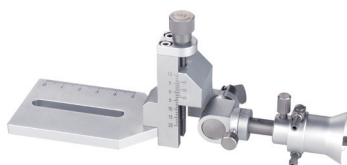
It is suitable for the MRI environment and does not generate electromagnetic interference; the adjustment range of the adaptor is 30mm (-20mm ~ +10mm) up and down, and the adjustment accuracy is 0.1mm; the front and rear movement range is 45mm; the ear bars have two head fixing methods to prevent

Rat Adaptor



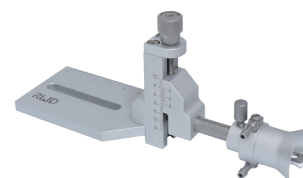
68021 Rat Adaptor

The up and down movement is 30mm (movement accuracy is 100µm), and the horizontal movement range is 43.5mm, which can meet the immobilization of rats of different weights. Compatible with 68602, 68666, 68667 anesthesia masks.



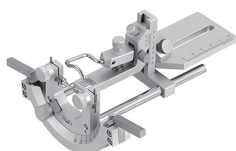
68053 Rat Anesthesia Adaptor

It contains an anesthesia mask; the vertical adjustment range is 30mm (-20mm ~ +10mm), and the adjustment accuracy is 100µm; the vertical rotatable angle range is 70°(-35° ~ +35°), and the adjustment accuracy is 5°; the horizontal rotatable angle range is 70° (-35° ~ +35°), and the adjustment accuracy is 5°; the front and rear adjustment range is 43.5mm. The inlet and outlet of the gas anesthesia mask use a 3mm inner diameter tube.



68078 Rat Anesthesia Adaptor

It contains an anesthesia mask; the vertical adjustment range is 30mm (-20mm ~ +10mm), and the adjustment accuracy is 100µm; the front and rear adjustment range is 43.5mm. The inlet and outlet of the gas anesthesia mask use a 3mm inner diameter tube.



68063 Rotational Mouse Adaptor

The head of the rat can be rotated according to the experimental requirements, so that it is convenient to operate the various angles of the rat head. The adjustment range of the adaptor is 30mm up and down, and the adjustment accuracy is 100µm. The adjustment range of the adaptor is 43.5mm, and the head can be rotated at an angle of 60°, and the tip of the ear bars is 18°. Compatible with 68602, 68666, 68667 anesthesia masks.



68011 MRI Compatible Rat Adaptor

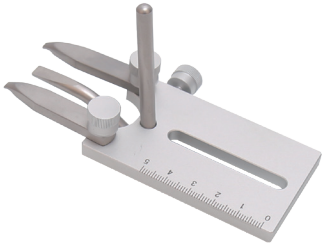
It is suitable for the MRI environment and does not generate electromagnetic interference. Dimensions: 360mm(L)x125mm (W)x 96mm(H).



68022 Rat Aural Adaptor

The head fixation method of rats does not use the commonly used ear bars, but fixes the eye sockets, which does not cause any obstacles to the animal's hearing.

Large Animals and Other Adaptors



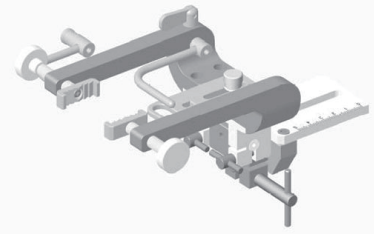
68041 Cat/Monkey Adaptor

This cat/monkey adaptor provides head fixation through the eye sockets and palate for use with large animal stereotaxic instrument. It is generally suitable for cats and monkeys weighing less than 10 kg.



68081 Dog/Monkey/Pig Adaptor

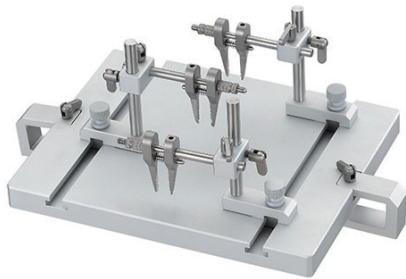
This dog/monkey/pig adaptor is suitable for large animal stereotaxic instruments. The extended upper jaw fixing plate is easy to operate and the head is more stable. It is generally suitable for dogs, monkeys, and pigs with a weight of 10-30 kg.



68084 Rabbit Adaptor

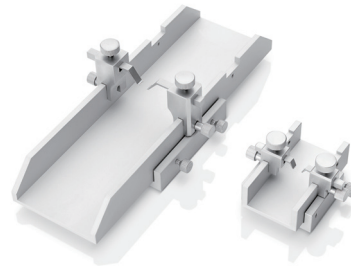
The Rabbit Adaptor secures the head with specialized zygomatic clamps, an adjustable incisor plate and a nose bar. The distance between the two zygomatic clamps can be precisely adjusted through the screw knob. The front and rear adjustment range of the adult rabbit incisor plate is 43.5mm; the front and rear adjustment range of the baby rabbit incisor plate is 26.5mm; the front and rear adjustment range of the adaptor plate is 40mm.

Spinal Cord Adaptor



68091 Rat and Mouse Spinal Cord Adaptor

Universal for rats and mice, it can be fixed on the base plate of the 68000 series stereotaxic instrument, used for spinal cord injection, stimulation, impact, etc. It includes 3 spinal cord clamps, the clamps can be adjusted up and down by 56mm, and can be slid back and forth and locked at any time.



68094/68095 Spinal Cord Adaptor

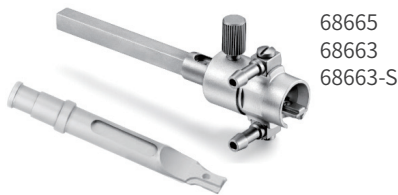
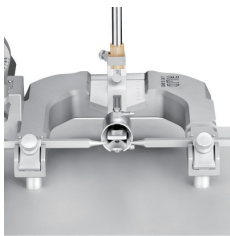
The rat spinal cord adaptor (68095) and the mouse spinal cord adaptor (68094) can be applied to the 68099 II spinal cord precise impactor. The width of the rat groove is 54mm, and the width of the mouse groove is 29mm. A pair of fixed teeth are fixed in opposite directions, which is more stable. The method of supporting the spinal cord from below the bilateral transverse processes can avoid the depth measurement error caused by the animal's breathing, and avoid the sagging of the spinal cord during impact.

Stereotaxic Anesthesia Nosecone Masks

First understand what is an active and a passive mask.

Active and passive masks are constructed differently. Active masks must be equipped with a gas evacuation apparatus to prevent exhaust gas leakage into the air, while passive masks do not need to be equipped with a gas evacuation apparatus, otherwise the animals were not anesthetized deeply.

- Active recovery means that the exhaust gas is actively sucked into the filter canister by the gas evacuation apparatus to avoid leakage of anesthetic gas into the environment.
- Passive recovery means that no gas evacuation apparatus is used for suction, and the exhaust gas flows naturally into the filter canister.



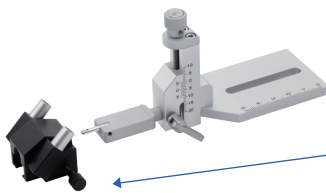
68665
68663
68663-S

The mask contains round and square tooth bars for use with 68030,68055,68065,68087



68666
68667

The mask can be used with 68021,68063,68088

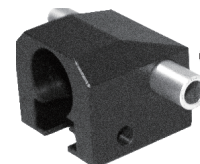


68055



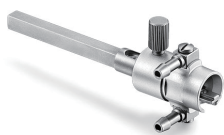
68601

The mask contains round and square tooth bars for use with 68030,68055,68065,68087



68602

The mask can be used with 68021, 68063,68088



68663-S/68663/68665(Mouse)



68666/68667(Rat)

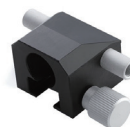


Gas Filter Canister + Gas Evacuation Apparatus

Active Recovery System



68601(Mouse)



68602(Rat)



Gas Filter Canister only

Passive Recovery System

Stereotaxic Active Nosecone Masks

The active masks contain inlet and outlet tubes, and the mouse masks contain round and square nose bars (incisor bars). The cross-sectional size of the square bar is 5*5mm.

Model	Product Description	Compatible Adaptor
68663-S	Stereotaxic Anesthesia/Evacuation Mask-mice or neonatal rats(10-20g)	68055,68030,68065,68014,68087
68663	Stereotaxic Anesthesia/Evacuation Mask-mice or neonatal rats(20-30g)	68055,68030,68065,68087
68665	Stereotaxic Anesthesia/Evacuation Mask-mice or neonatal rats(30-70g)	68055,68030,68065,68087
68666	Stereotaxic Anesthesia/Evacuation Mask-rats(<300g)	68021,68063,68088
68667	Stereotaxic Anesthesia/Evacuation Mask-rats(>300g)	68021,68063,68088

Stereotaxic Passive Nosecone Masks

The mouse masks contain round and square nose bars (incisor bars). The cross-sectional size of the square bar is 5*5mm.

Model	Product Description	Compatible Adaptor
68601	Stereotaxic Anesthesia Mask Kit-mice or neonatal rats (<70g, Canister&Tubing included)	68055,68030,68065,68087
68602	Stereotaxic Anesthesia Mask Kit-rats (<300g, Canister&Tubing included)	68021,68063,68088

Ear Bars

The ear bars of classic and automated stereotaxic instrument



68301 Rat 18° Ear Bars

Rat 18°ear bars with a tip radius of 0.8 mm, easy to enter the rat ear canal and fix the skull easily.



68302 Rat 45° Ear Bars

Rat 45°ear bars with a tip radius of 0.8 mm.



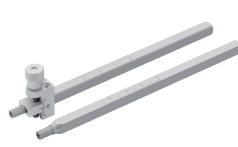
68305 Rat 45° Hollow Ear Bars

The diameter of the front hole is 1.0mm, and the diameter of the rear hole is 3.0mm. The hole through for auditory stimulation.



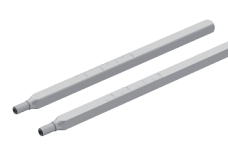
68306 Mouse 60° Ear Bars

The tip is at an obtuse angle of 60° to avoid damage to the skull of the mouse.



68314 Mouse Height Adjustable Serrated Ear Bars

The tip of the ear bars is serrated, and the height of one of the ear bars is adjustable. The adjustment range is -5~+5mm.



68308 Mouse O-shaped Ear Bars

The O-shaped rubber ring is used as the fixed contact surface of the mouse to ensure that the head is fixed while avoiding damage to the skull of the animal.



68307 Mouse Serrated Ear Bars

The ear bars adopt the hollow serrated, which have a large contact area with the animal's head, will not puncture the mouse's skull and cause damage, and can stably hold the animal's head.



68303 Cat/Monkey 18° Ear Bars

Suitable for cats, dogs, monkeys, pigs, etc., the tip of the ear bars is 18°.



68304 Cat/Monkey 45° Ear Bars

Suitable for cats, dogs, monkeys, pigs, etc., the tip of the ear bars is 45°.



68413 Elevated Ear Bars

Elevated ear bars can raise the animal's head by 50mm, and the square rods are marked with 55mm engraved lines with an accuracy of 1mm.

The ear bars of rotational digital stereotaxic instrument

The ear bars cross-section of the rotational digital stereotaxic instrument is 5mm*5mm, which cannot be used for the classic stereotaxic instrument.



69116 Rat 18° Ear Bars

Cross section 5*5mm, only suitable for rotational digital stereotaxic instrument.



69114 Mouse 60° Ear Bars

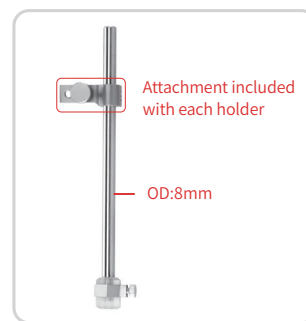
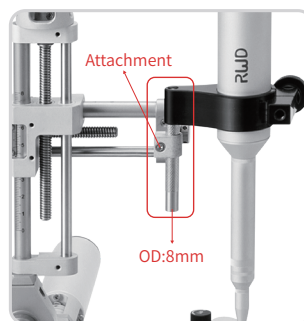
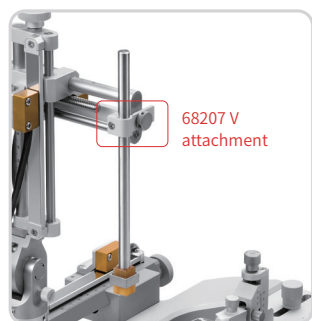
Cross section 5*5mm, only suitable for rotational digital stereotaxic instrument.

Holder

All RWD holders (except the rotational digital stereotaxic instrument) are connected to the stereotaxic instrument with a Vattachment (68207) that is included in each holder. The diameter of the rod of the holder is 8mm. The special holder attachment (69207) is connected to the rotational digital stereotaxic instrument. Ordinary holders are used on the rotational digital stereotaxic instrument, only need to replace the connector. The holder (except the rotational digital stereotaxic instrument) can be used with standard stereotaxic instruments of major brands on the market.

Can the syringe pump be connected to the stereotaxic instrument?

Syringe pumps that can be fixed on the stereotaxic instrument generally have a fixing rod. You can confirm whether the diameter of the fixing rod is 8mm. If so, you can use the connector to connect to the stereotaxic instrument (select 68207 for the stereotaxic instrument, and 69207 for the rotational digital stereotaxic instrument).



How to choose a holder?

Each holder is marked with the range of objects that can be gripped, so it is necessary to confirm the diameter of the gripped object before selecting a suitable holder. For example, the clamping range of 68201 is 0.3-1.5mm, then electrodes or needles within this range can be clamped.

Electrode Holder



68201 Standard Probe HolderCorner

Widely used for clamping injection needles or electrodes, clamping range: 0.3-1.5mm.



68213 Standard Probe HolderSide

The design structure is similar to the 68201 standard holder, but it is applicable to a wider range of electrodes or micro-injection needles, with a clamping range of 0.4-4.0mm.



68210/68211 Electrode Holder

The clamping range of 68210 is 0.7-2.5mm, and the clamping range of 68211 is 2.1-5.0mm. Using two 68210 or two 68211 (dual manipulators) can make the cannula or electrode close to 0.3mm.



68216 Electrode Holder

The clamping range is 0.4-1.5mm. Using two 68216 (dual manipulators) can make the cannula or electrode close to 0.2mm.

Cannula Holder



68217 Cannula Holder

The clamping part is made of plastic, suitable for clamping single or double cannulas with an external diameter (E value) of 3.5mm (fixed value) of the cylindrical plastic base.



68205/68230 Cannula Holder

It's made of metal. Extended double-leaf clamping design reduces visual field obstruction. 68205 can clamp objects with a diameter of 3.5 mm (such as a cannula with an E value of 3.5 mm), and 68230 can clamp objects with a diameter of 5.5 mm (such as a cannula with an E value of 5.5 mm).



68214/68215 Ceramic Ferrule Holder

Designed for optogenetic experiments, compatible with ceramic ferrules and metal ferrules, can be easily removed after implantation, 68214 is suitable for cannula or ceramic ferrule with a diameter of 1.25mm, 68215 is suitable for cannula or ceramic ferrule with a diameter of 2.5mm ferrule. Note that the clamping diameter is a fixed value.



68221 Cannula Holder

Suitable for clamping single or double cannulas with an external diameter (E value) of 3.5mm (fixed value) of the cylindrical plastic base.

Multi-function Holder



68202/68206 General Probe Holder

Using lateral fixation, it can hold micro-syringe barrels, large-diameter electrodes and microdrill handles, etc. The clamping range of 68202 is 6mm-12mm, and the clamping range of 68206 is 3mm-12mm.



68218 Syringe Holder

It is mainly used for micro injection drug administration experiments. It can fix the syringe barrel and needle at the same time. The syringe clamping is more stable. The syringe barrel clamping range is 6mm-12mm, and the syringe needle clamping range is 0.3mm-1.5mm.



68605 Microdrill Holder

The microdrill holder fixes the microdrill (78001) to the manipulator of the stereotaxic instrument, and controls the drilling depth through the lifting of the stereotaxic. The operation is convenient and precise, and avoids damage to the animal brain tissue. The clamping diameter is 14.5mm (Fixed value).



68606 Manual Syringe Pump

Precise control of micro-injection and withdrawal, compatible with 1-1000 μ L syringes of different specifications, the recommended displacement accuracy is 10 μ m, and the displacement distance is 25mm. The clamping range of the syringe barrel is 6mm-12mm, and the clamping range of the syringe needle is 0.3mm-1.5mm.

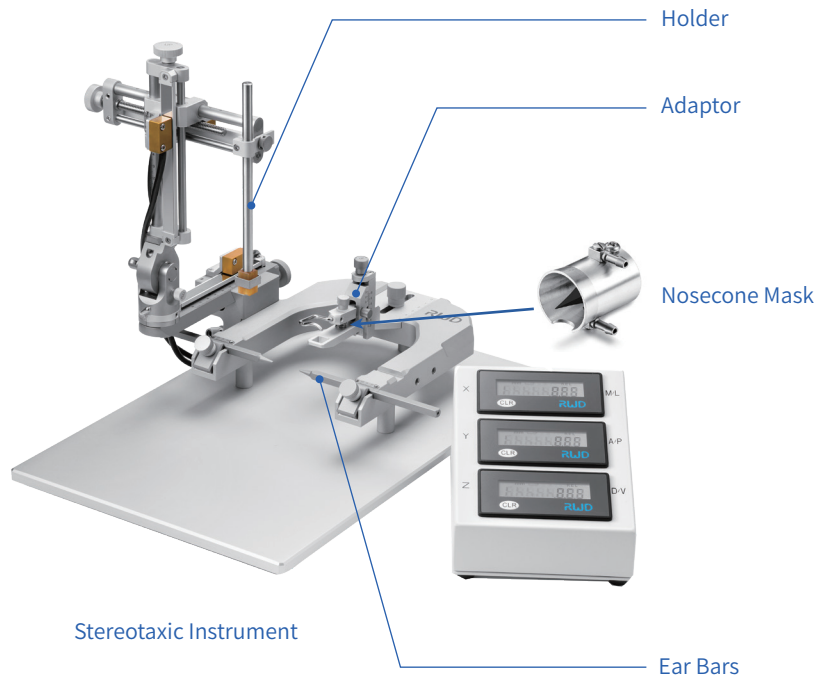


68106 Headstage Holder

It adopts C-shaped design with side opening, which is convenient for fixing micro-amplifiers or headstage (such as TBSI headstage, Plexon microelectrode amplifiers), and the clamping range is 0.1-7.0mm.

Purchase Guide

A complete set of configurations includes a Stereotaxic Instrument, Adaptor, Ear Bars and Holder. Anesthesia Nosecone Mask is required for gas anesthesia.



Step 1:

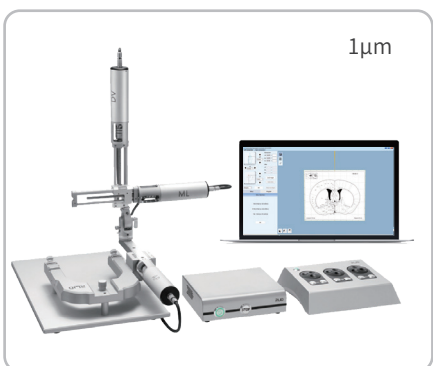
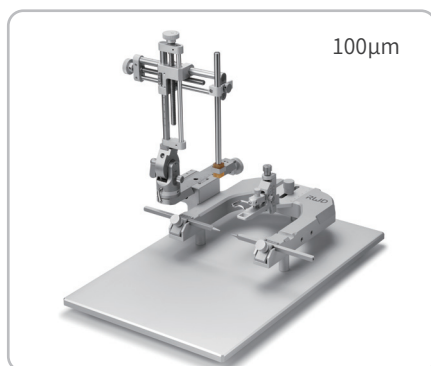
Select according to animal type and experimental needs

The stereotaxic instrument is divided into small and large animal types, the small animal type is mainly used for rodents such as mice, rats, guinea pigs, etc. The large animal type is mainly used for cats, dogs, monkeys, pigs, etc. The automated stereotaxic instrument contains automatic procedures, which are more convenient and efficient, and is very suitable for calcium imaging, multi-point injection and craniotomy experiments. The Rotational Digital Stereotaxic Instrument can quickly adjust the skull level of rodents, and its rotation function is also suitable for angle injection experiments.

Step 2:

Select the appropriate accuracy

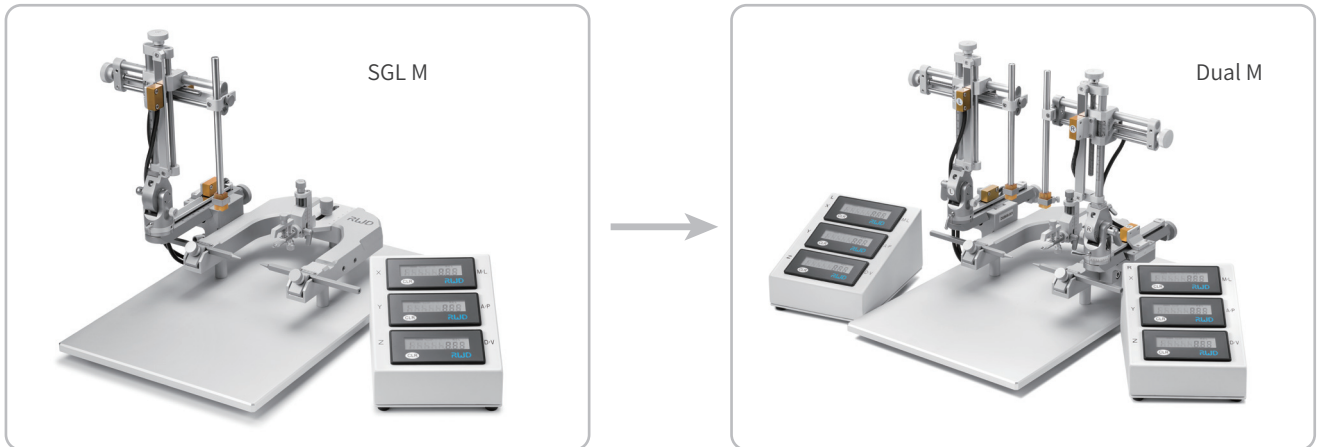
The stereotaxic instrument has three kinds of accuracy, the non-digital model is 100μm, the digital model is 10μm, and the automated model is 1μm.



Step 3:

Select single or dual manipulators

The dual manipulators model can simultaneously inject, stimulate, and destroy the coordinates of two brain regions of the same animal, saving operating time.



Step 4:

Select Adaptor, Ear Bars and Holder

Choose the corresponding adaptor and ear bars according to the animal type, and choose the appropriate holder according to the experimental needs.

Step 5:

Select Anesthesia Nosecone Mask (optional for gas anesthesia)

When using an anesthesia machine connected to a stereotaxic instrument, it is necessary to select a suitable mask according to the model of the adaptor. Anesthesia nosecone masks are divided into active recovery and passive recovery types, of which active recovery masks need to be used together with a gas evacuation apparatus.

<p>68663-S/68663/68665(Mouse)</p> <p>68666/68667(Rat)</p>	+	<p>Gas Filter Canister + Gas Evacuation Apparatus</p>	<p>68601(Mouse)</p> <p>68602(Rat)</p>	+	<p>Gas Filter Canister only</p>
Active Recovery System			Passive Recovery System		

Contact our distributor



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