

Harvard Apparatus Stereotaxic Instruments

A complete line of stereotaxic instruments and accessories



NEW

Mouse and Rat
Large Animal
Manual and Digital
Variety of Adapters

Compact Stereotaxic Instruments



- **Small footprint**
- **Adapters for rat, mouse, mouse/neonatal rat and more**
- **Resolution of 100 μm for manual versions and 10 μm for digital versions**
- **Single or dual manipulator arm available in manual or digital**

The Harvard Apparatus Compact Stereotaxic Instrument offers everything you have come to expect in a high quality stereotaxic instrument. The dual-lead screw design ensures stable, accurate and smooth manipulations while the laser engraved scales offer ease of reading. The instrument offers 180° vertical rotation and 360° horizontal rotation, with the ability to lock at any angle.

The rat base plate measures 40.0 x 25.5 cm, while the mouse base plate measures 25.5 x 25.5 cm. The two mice base plate is larger than the mouse version, measuring 40 x 25.5 cm, allowing it to accommodate two animals simultaneously.

A complete system includes the base plate, 3-axis manipulator arm (dual option comes with two manipulator arms), species adapter, ear bars, and holder with corner clamp.

Mouse and Rat Compact Stereotaxic Instrument

The Mouse and Rat Compact Stereotaxic Instrument allows for either the mouse or rat adapter and ear bars to be installed on a single instrument. The base plate measures 40.0 x 25.5 cm. The complete system includes species adapters and ear bars for both mouse and rat.

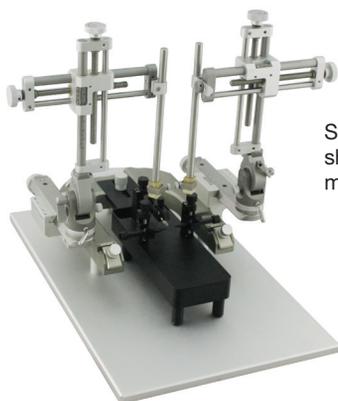
Digital

The digital manipulator arm option provides the addition of a displacement transducer and a compact LCD display. Together, these additions allow real-time coordinate presentation of all three axes to a resolution of 10 μm . The display has the ability to run on either AC power or battery power, drastically reducing electrical noise and making it suitable for electrophysiology experiments.

Ordering Information

Order #	Product
Mouse Only	
75-1820	Compact Mouse Stereotaxic Instrument, single manipulator
75-1821	Compact Mouse Stereotaxic Instrument, dual manipulator
75-1822	Compact Mouse Stereotaxic Instrument, single manipulator, digital
75-1823	Compact Mouse Stereotaxic Instrument, dual manipulator, digital
75-1824	Two Mice Stereotaxic Instrument, single manipulator
75-1825	Two Mice Stereotaxic Instrument, single manipulator, digital
Rat Only	
75-1816	Compact Rat Stereotaxic Instrument, single manipulator
75-1817	Compact Rat Stereotaxic Instrument, dual manipulator
75-1818	Compact Rat Stereotaxic Instrument, single manipulator, digital
75-1819	Compact Rat Stereotaxic Instrument, dual manipulator, digital
Mouse/Rat	
75-1826	Mouse and Rat Stereotaxic Instrument, single manipulator
75-1827	Mouse and Rat Stereotaxic Instrument, dual manipulator
75-1828	Mouse and Rat Stereotaxic Instrument, single manipulator, digital
75-1829	Mouse and Rat Stereotaxic Instrument, dual manipulator, digital

Standard U-Frame Stereotaxic Instruments



Standard U-Frame Stereotaxic Instrument, shown with dual manipulator arms and mouse/neonatal rat adapter



Standard U-Frame Stereotaxic Instrument, shown with a single manipulator arm and rat accessories

- **Standard U-frame design**
- **Adapters for rat, mouse, mouse/neonatal rat and more**
- **Resolution of 100 μm for manual versions and 10 μm for digital versions**
- **Single or dual manipulator arm available in manual or digital**

The Harvard Apparatus Standard U-Frame Stereotaxic Instrument offers everything you have come to expect in a high quality stereotaxic instrument. The dual-lead screw design ensures stable, accurate and smooth manipulations while the laser engraved scales offer ease of reading. The instrument offers 180° vertical rotation and 360° horizontal rotation, with the ability to lock at any angle.

The base plate of the Standard U-Frame Stereotaxic Instrument measures 40.0 x 25.5 cm, allowing it to accommodate a wide range of small animals. Complete systems are offered for rat, mouse, and mouse/neonatal rat.

A complete system includes the base plate, 3-axis manipulator arm (dual option comes with two manipulator arms), species adapter, ear bars, and holder with corner clamp.

Digital

The digital manipulator arm option provides the addition of a displacement transducer and a compact LCD display. Together, these additions allow real-time coordinate presentation of all three axes to a resolution of 10 μm . The display has the ability to run on either AC power or battery power, drastically reducing electrical noise and making it suitable for electrophysiology experiments.

Ordering Information

Order #	Product
Rat	
75-1800	Standard U-Frame Stereotaxic Instrument, Rat, 18° ear bars, single manipulator
75-1801	Standard U-Frame Stereotaxic Instrument, Rat, 18° ear bars, dual manipulator
75-1802	Standard U-Frame Stereotaxic Instrument, Rat, 18° ear bars, single manipulator, digital
75-1803	Standard U-Frame Stereotaxic Instrument, Rat, 18° ear bars, dual manipulator, digital
75-1804	Standard U-Frame Stereotaxic Instrument, Rat, 45° ear bars, single manipulator
75-1805	Standard U-Frame Stereotaxic Instrument, Rat, 45° ear bars, dual manipulator
75-1806	Standard U-Frame Stereotaxic Instrument, Rat, 45° ear bars, single manipulator, digital
75-1807	Standard U-Frame Stereotaxic Instrument, Rat, 45° ear bars, dual manipulator, digital
Mouse	
75-1808	Standard U-Frame Stereotaxic Instrument, Mouse, single manipulator
75-1809	Standard U-Frame Stereotaxic Instrument, Mouse, dual manipulator
75-1810	Standard U-Frame Stereotaxic Instrument, Mouse, single digital manipulator
75-1811	Standard U-Frame Stereotaxic Instrument, Mouse, dual digital manipulator
Mouse/Neonatal Rat	
75-1812	Standard U-Frame Stereotaxic Instrument, Mouse/ Neonatal Rat, single manipulator
75-1813	Standard U-Frame Stereotaxic Instrument, Mouse/ Neonatal Rat, dual manipulator
75-1814	Standard U-Frame Stereotaxic Instrument, Mouse/ Neonatal Rat, single manipulator, digital
75-1815	Standard U-Frame Stereotaxic Instrument, Mouse/ Neonatal Rat, dual manipulator, digital

Large Animal Stereotaxic Instruments



Large Animal Stereotaxic Instrument, shown with dual manipulator arms and dog/monkey accessories

- Adapters available for dog, cat, monkey and more
- Can fit up to 6 manipulator arms, 3 on each rail
- Resolution of 100 μm for manual versions and 10 μm for digital versions

The Harvard Apparatus Large Animal Stereotaxic Instrument incorporates all of the features of the Standard U-Frame Stereotaxic Instrument into a design that is appropriate for most large laboratory animals. The dual-lead screw design ensures stable, accurate and smooth manipulations while the laser engraved scales offer ease of reading. The instrument offers 180° vertical rotation and 360° horizontal rotation, with the ability to lock at any angle.

The two parallel rails can accommodate a total of six manipulator arms. This allows for multiple procedures to be performed simultaneously on a single animal in a single session. Furthermore, the unique swivel stand allows for the rail to be rotated 360° making it suitable for procedures and various angles.

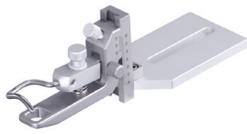
A complete system includes the base plate, 3-axis manipulator arm (dual option comes with two manipulator arms), species adapter, ear bars, and holder with corner clamp.

Digital

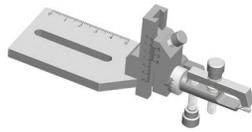
The digital manipulator arm option provides the addition of a displacement transducer and a compact LCD display. Together, these additions allow real-time coordinate presentation of all three axes to a resolution of 10 μm . The display has the ability to run on either AC power or battery power, drastically reducing electrical noise and making it suitable for electrophysiology experiments.

Ordering Information

Order #	Product
Dog/Monkey	
75-1830	Large Animal Stereotaxic Instrument, Dog/Monkey, single manipulator
75-1831	Large Animal Stereotaxic Instrument, Dog/Monkey, dual manipulator
75-1832	Large Animal Stereotaxic Instrument, Dog/Monkey, single manipulator, digital
75-1833	Large Animal Stereotaxic Instrument, Dog/Monkey, dual manipulator, digital
Cat/Monkey	
75-1834	Large Animal Stereotaxic Instrument, Cat/Monkey, single manipulator
75-1835	Large Animal Stereotaxic Instrument, Cat/Monkey, dual manipulator
75-1836	Large Animal Stereotaxic Instrument, Cat/Monkey, single manipulator, digital
75-1837	Large Animal Stereotaxic Instrument, Cat/Monkey, dual manipulator, digital



Rat Adapter



Mouse Adapter



Mouse/Neonatal
Rat Adapter

Adapters

Species Adapters

- **Adapters to convert stereotaxic instruments to hold different species**
- **Mouse, rat, neonates, cat/monkey adapters available**
- **Spinal cord adapter for rat and mouse**

These species adapters allow you to convert the Harvard Apparatus stereotaxic instruments detailed on the previous pages to accommodate other species.

Mouse/Neonatal Rat Adapter

This elevated platform fits into the Harvard Apparatus Standard U-Frame Stereotaxic Instrument. It is height adjustable and converts the U-Frame to securely hold a mouse or neonatal rat. The ear bars of this adapter are made of resin and the tips are treated to ensure the head of the animal is securely held without damaging the skull. For neonatal rat, a cheekbone locker is used rather than ears bars because the ear canals have not yet formed.

Neonatal Mouse Adapter

This adapter has been specifically designed for use with neonatal mice. It has a base plate measuring 150 x 100 mm which can easily be placed on the Harvard Apparatus stereotaxic instruments. Both 20° and 45° ear

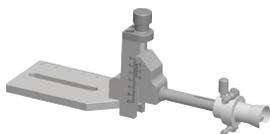
bars are included with this adapter. The incisor, nose clip, and ear bars can all be adjusted to ensure the skull of the neonatal mouse remains level.

Spinal Cord Adapter for Mouse and Rat

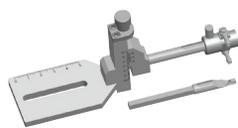
This adapter is ideal for securing the spinal cord of a rat and mouse. The base plate measures 210 x 165 x 15 mm and can be attached to the Harvard Apparatus Standard U-Frame Stereotaxic Instrument. The Spinal Cord Adapter is comprised of three stands, with a height range of 56 mm, and a locking block. This adapter can be adjusted in the vertical/lateral, anterior/posterior, and ventral/dorsal directions.

Ordering Information

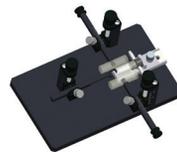
Order #	Product
75-1849	Rat Adapter
75-1850	Mouse Adapter
75-1851	Mouse/Neonatal Rat Adapter
75-1852	Neonatal Mouse Adapter
75-1853	Cat/Monkey Adapter
75-1854	Spinal Cord Adapter, rat and mouse



Rat Anesthesia Adapter



Mouse Anesthesia Adapter



Neonatal Mouse
Anesthesia Adapter



Mouse and Rat
Anesthesia Masks

Anesthesia Adapters

- **Integrates a gas anesthesia mask while securing the head of the animal**
- **Mouse, rat, and neonatal options available**

These anesthesia adapters provide an integrated gas anesthesia mask while securing the head of the animal for stereotaxic procedures. These masks are for rat, mouse, and neonates and interface with the Harvard Apparatus stereotaxic instruments detailed on the previous pages.

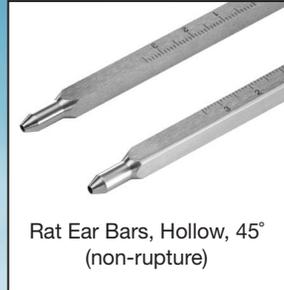
Ordering Information

Order #	Product
75-1855	Rat Anesthesia Adapter
75-1856	Mouse Anesthesia Adapter
75-1858	Neonatal Mouse Anesthesia Adapter
75-1859	Rat Gas Anesthesia Mask Kit
75-1860	Mouse Gas Anesthesia Mask Kit
Masks Only	
75-1878	Mouse Anesthesia Mask
75-1879	Small Rat Anesthesia Mask, < 300 g
75-1880	Large Rat Anesthesia Mask, > 300 g

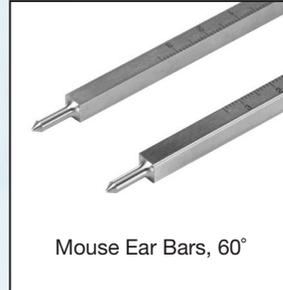
Ear Bars & Probe Holders



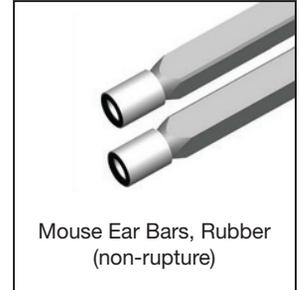
Rat Ear Bars, 45°
(non-rupture)



Rat Ear Bars, Hollow, 45°
(non-rupture)



Mouse Ear Bars, 60°



Mouse Ear Bars, Rubber
(non-rupture)

Ear Bars

- Mouse, rat, and cat/monkey ear bars available
- Non-rupturing options available
- Hollow ear bars for rat auditory studies

Ordering Information

Order #	Product
75-1861	Cat/Monkey Ear Bars, 18°
75-1862	Cat/Monkey Ear Bars, 45° (non-rupture)
75-1863	Rat Ear Bars, 18°
75-1864	Rat Ear Bars, 45° (non-rupture)
75-1866	Rat Ear Bars, Hollow 45° (non-rupture)
75-1867	Mouse Ear Bars, 60°
75-1868	Mouse Ear Bars, Rubber (non-rupture)
75-1869	Mouse Ear Bars, Cuff

HOLDERS

- Standard corner clamp holder
- Micro drill specific holder
- Large probe holder is suitable for glass syringes

Ordering Information

Order #	Product
75-1870	Probe Holder with Corner Clamp (0.3 – 1.5 mm)
75-1873	Large Probe Holder (6 – 12 mm)
75-1874	Micro Drill Holder



Probe Holder with
corner clamp



Large Probe Holder



Micro Drill Holder

Micro Drill



Micro Drill

- Speeds up to 38,000 rpm
- Forward or reverse rotation
- Easily interfaces with all Harvard Apparatus Stereotaxic Instruments with the use of the micro drill holder

The Harvard Apparatus Micro Drill is a high speed drill used for breaking through the skull during stereotaxic procedures. The micro drill can operate in either forward or reverse rotation and can be controlled either manually or with the footswitch. When used with the 75-1874 Micro Drill Holder, the micro drill easily interfaces with Harvard Apparatus stereotaxic instruments. The micro drill includes the hand piece and stand, controller, and footswitch. Drill bits must be purchased separately.

Drill Bit Sample Kit

Several drill bit options are available. The sample kit includes a selection of round carbide drill bits ranging in diameter from 0.6 mm to 1.6 mm. All drill bits have a length of 4.5 cm and a shaft diameter of 2.33 mm. With the exception of the sample kit, all drill bits are supplied in a pack of 5.

Ordering Information

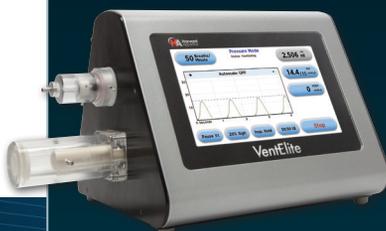
Order #	Product
75-1887	Micro Drill*
75-1874	Micro Drill Holder
Drill Bits	
72-6066	Micro Drill Bit Sample Kit, includes 1 each of carbide drill bits, round with diameters of 0.6 mm, 0.8 mm, 1.0 mm, 1.2 mm, and 1.6 mm
62-0020	Carbide Drill Bit, Round, 0.6 mm, pkg. of 5
62-0021	Carbide Drill Bit, Round, 0.8 mm, pkg. of 5
62-0022	Carbide Drill Bit, Round, 1.0 mm, pkg. of 5
62-0023	Carbide Drill Bit, Round, 1.2 mm, pkg. of 5
62-0024	Carbide Drill Bit, Round, 1.4 mm, pkg. of 5
62-0025	Carbide Drill Bit, Round, 1.6 mm, pkg. of 5
62-0026	Carbide Drill Bit, Round, 1.85 mm, pkg. of 5
62-0027	Carbide Drill Bit, Round, 2.1 mm, pkg. of 5
62-0028	Carbide Drill Bit, Round, 2.3 mm, pkg. of 5

*Drill bits must be purchased separately



Harvard Apparatus also offers a large selection of surgical products!

- Surgical instruments
- Temperature control
- Ventilators
- Lighting
- Magnification
- Operating tables
- Vital sign monitoring
- Infusion products



VentElite,
Small Animal
Ventilator



Homeothermic
Monitoring System



Microsurgical
Kits

Contact us for more information!



CMA Microdialysis, AB

Torshamnsgatan 30A
SE-164 40 Kista, Sweden

phone +46.8.470.10.00
e-mail cma@microdialysis.se
web www.microdialysis.se



Harvard Apparatus

84 October Hill Road
Holliston, MA 01746, USA

phone +1.508.893.8999
toll free +1.800.272.2775 (USA Only)
fax +1.508.429.5732
e-mail support@hbiosci.com
web www.harvardapparatus.com



Harvard Apparatus Canada

6010 Vanden Abeele
Saint-Laurent, Quebec
H4S 1R9, Canada

phone +1.514.335.0792
toll free +1.800.361.1905 (CAN Only)
fax +1.514.335.3482
e-mail sales@harvardapparatus.ca
web www.harvardapparatus.ca



Harvard Apparatus China

Room 1902E, 19F, Building B
Zhong Shan Plaza
1065 West Zhong Shan Road
Changning District
Shanghai, China

phone +86.21.2230.5128
e-mail china@harvardapparatus.com



Biochrom Limited - Harvard Apparatus UK

East Wing, Building 1020
Cambourne Business Park, Cambourne
Cambridge, CB23 6DW, United Kingdom

phone +44.1732.864001
fax +44.1732.863356
e-mail sales@harvardapparatus.co.uk
web www.harvardapparatus.co.uk



Harvard Apparatus, S.A.R.L.

6 Avenue des Andes
Miniparc Building 8
91952 Les Ulis Cedex, France

phone +33.1.64.46.00.85
fax +33.1.64.46.94.38
e-mail info@harvardapparatus.fr
web www.harvardapparatus.fr



HUGO SACHS ELEKTRONIK

a division of Harvard Bioscience, Inc.

Hugo Sachs Elektronik / Harvard Apparatus, GmbH

Gruenstrasse 1
March-Hugstetten D-79232, Germany

phone +49.0.7665.9200.0
fax +49.0.7665.9200.90
e-mail info@hugo-sachs.de
web www.hugo-sachs.de

Panlab

Panlab, S.L. / Harvard Apparatus Spain

C/Energia, 112 08940 Cornellà
Barcelona, Spain

phone +34.934.750.697 (International Sales)
+34.934.190.709 (Sales in Spain)
fax +34.934.750.699
e-mail info@panlab.com
web www.panlab.com