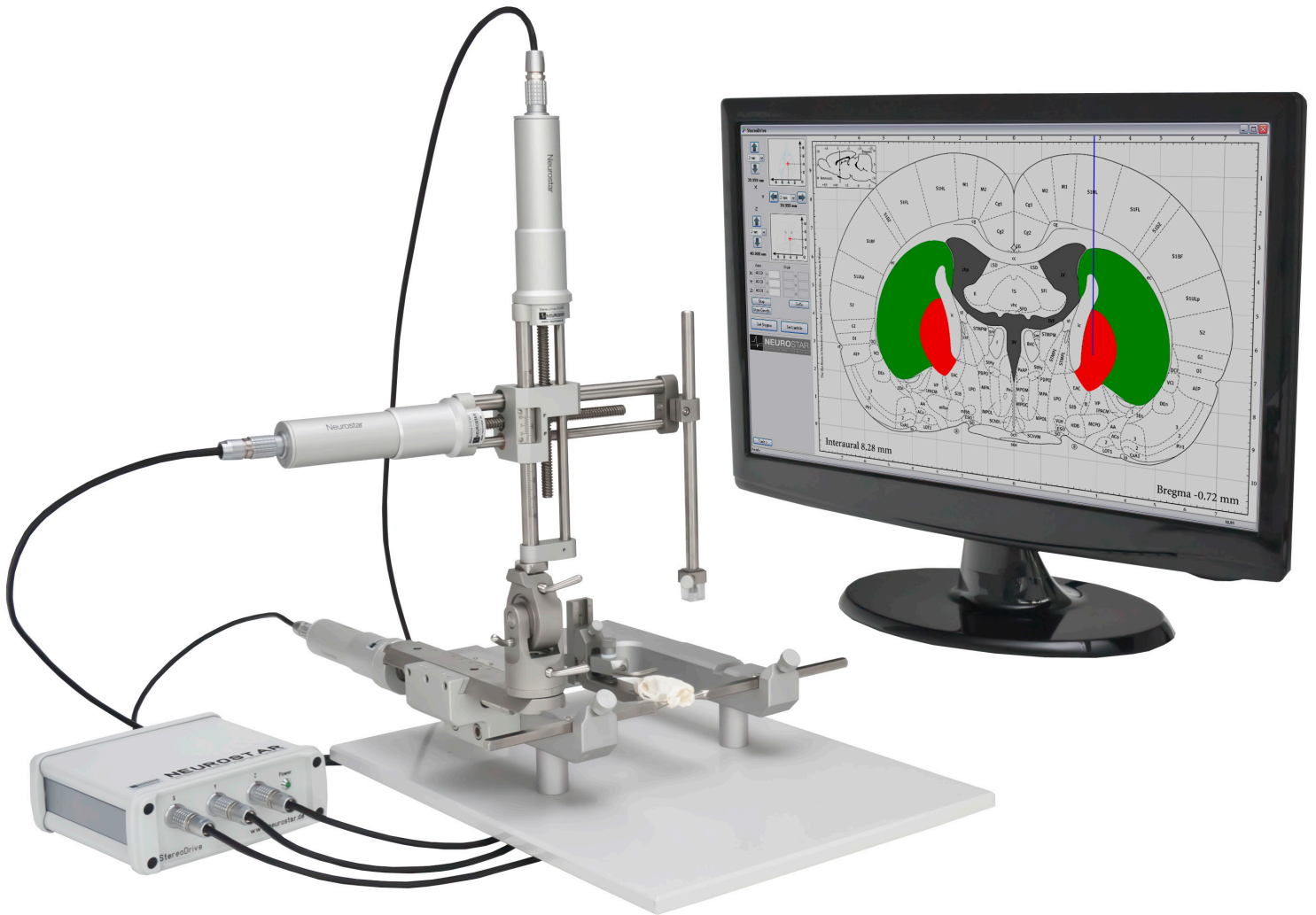


# Motorized Stereotaxic



## Drill Robot

Safe Drilling with Depth Control  
Sharp Edge Craniotomy

## Microinjection Robot

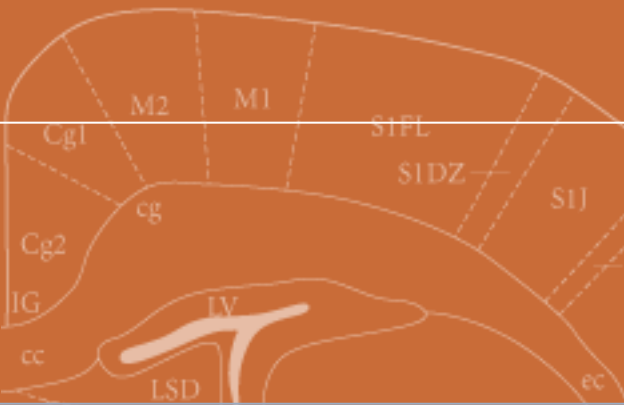
Ultraprecise Microinjections  
Robot Mode

## Drill & Injection Robot

One Step Drill & Injection  
High-Throughput Experiments

## Smart Bregma Finder

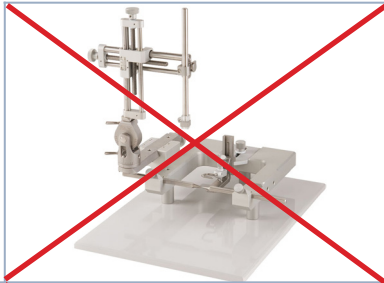
Bregma Detection  
Camera-Driven Positioning



# Neurostar's Motorized Stereotaxic

Solves all problems of older generation stereotaxic

1<sup>st</sup> generation  
Manual Stereotaxic



- poor precision
- human errors
- readout and calculation errors
- no correction for inaccurate alignment
- no atlas integration

2<sup>nd</sup> generation  
Digital Stereotaxic

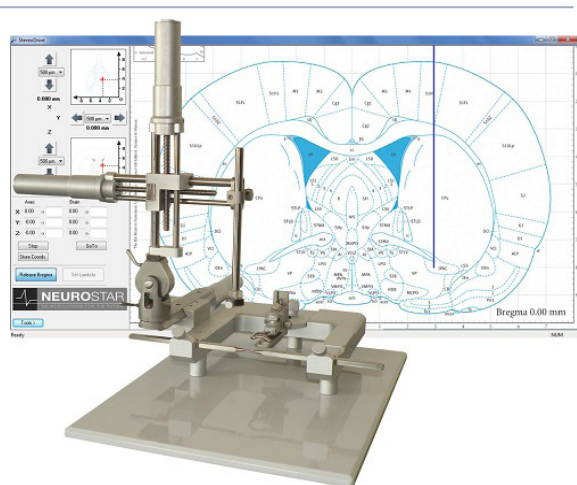


- human errors
- position readout only
- no reproducible positioning
- no correction for inaccurate alignment
- no atlas integration

3<sup>rd</sup> generation  
Motorized Stereotaxic  
Invented by Neurostar



- ultra precise
- time saving
- avoids human errors
- corrects for inaccurate alignment
- computer control with atlas integration
- probe visualization in the atlas space
- intuitive navigation

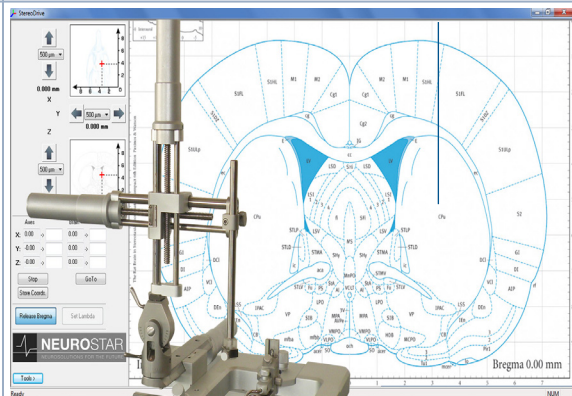


Focus on the experiment.  
Avoid human induced errors.  
Reach any target with micron precision.

Perform better and faster experiments using less animals.

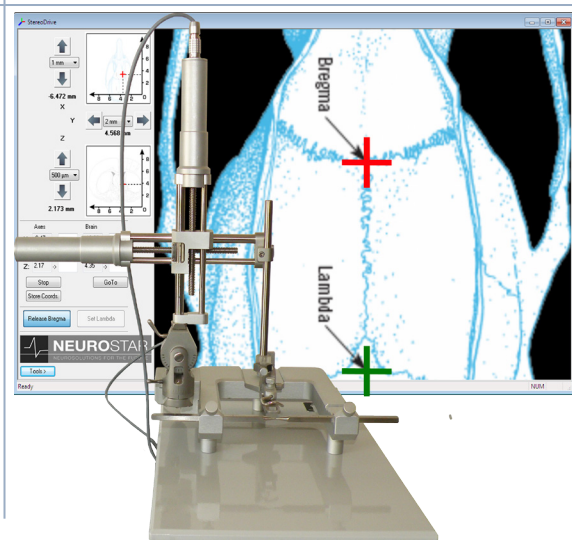
Full software control and atlas integrated visualization makes Neurostar's Motorized Stereotaxic a must-have instrument for your daily lab routine.

## Atlas Integration



- Neurostar's software comes with integrated atlases.
- Real-time visualization of the probe in the atlas space.
- Intuitive navigation in all three planes.

## Flat-Skull Adjustment



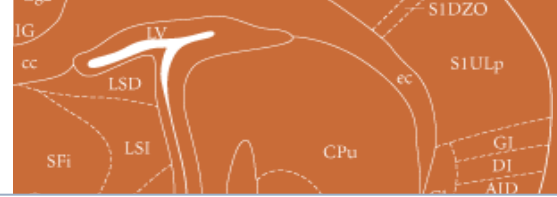
- The software compensates alignment inaccuracies if a perfect flat-skull mounting cannot be achieved.
- This solves critical issues in any surgical approach.

## Intuitive Probe Control

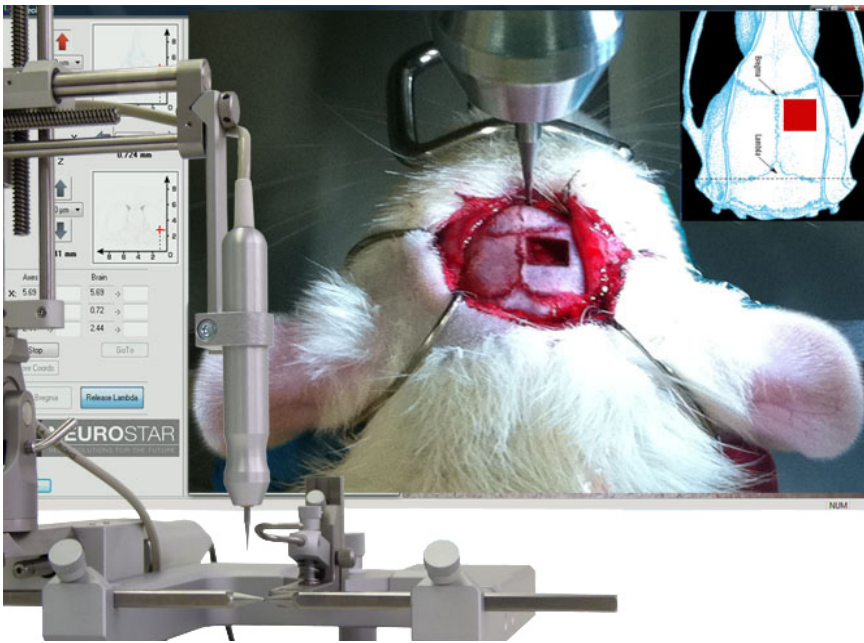


- The remote control allows you to quickly position the probe on Bregma/Lambda landmark.
- You only have to focus on the animal's skull for zeroing the brain workspace according to Bregma.

# Robot Stereotaxy



## Drill Robot

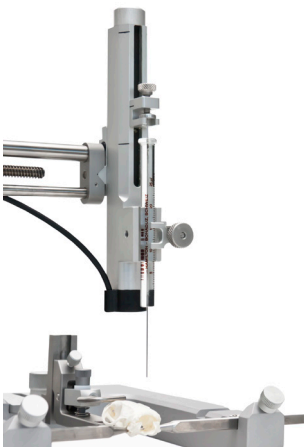


- Ultra Precise
- Works like a CNC Robot
- Safe Drilling with Depth Control
- Sharp Edge Craniotomy
- Brain Windowing
- Atlas Integration

The fully computer controlled Drill Robot ensures highest safety levels.

In contrast to traditional drilling systems the Drill Robot works like a **CNC machine**.

## Microinjection Robot



- Picoliter Dispensing
- Multisite Injections
- Intuitive Protocol
- Syringe Library
- Robot Mode

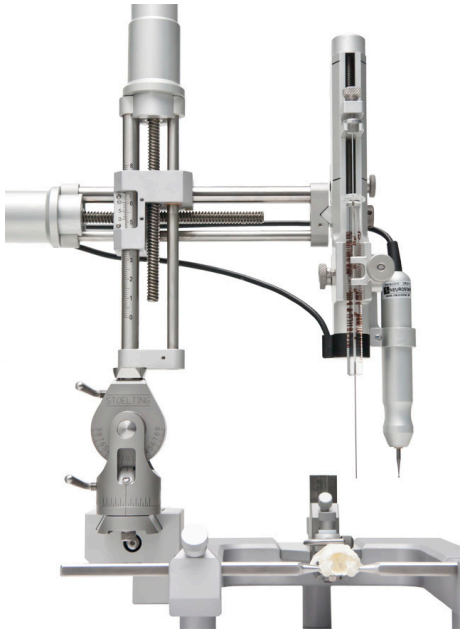
From now on you can perform multisite microinjections.

Define your targets and the injection protocol - **the Robot will then take over**.

# Robot Stereotaxy



## Drill & Injection Robot



- One Step Drill & Injection
- Time Saving
- High Throughput Experiments

Drill and inject straightforward without tool exchange or recalibration.

Perform microinjections in series of animals using a standardized automated procedure.

## Smart Bregma Finder



- Bregma Detection
- Camera-Driven Positioning
- Avoids Human Errors
- Highest Accuracy
- Video Streaming
- Experiment Monitoring

# Neurostar reinvents Stereotaxy

Ultra Precision made in Germany



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