

# Neuroscience Solutions

Take your research to the next level



Acquisition & Analysis Systems

**DSI**™

a division of  
Harvard Bioscience, Inc.

# Be Confident In Your Research

Get the most out of your neuroscience data with world class solutions cited in over 11,000 scientific publications.

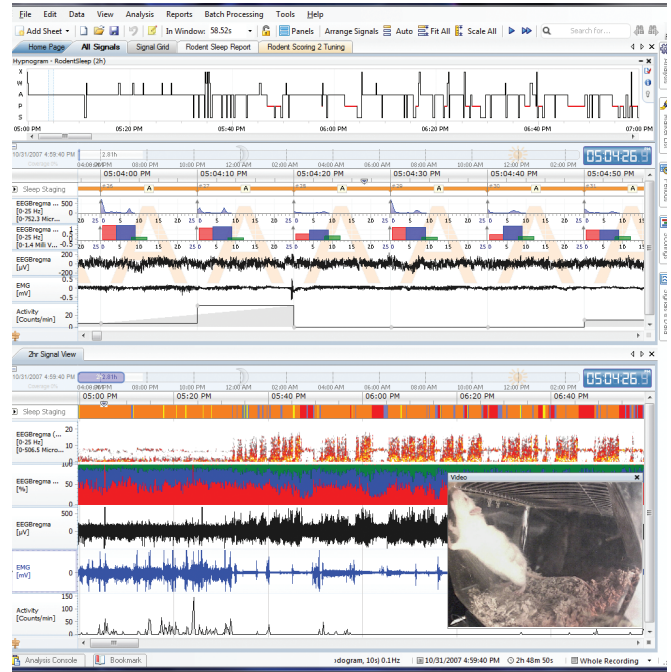
## Versatile Acquisition

Every study is unique. Our robust acquisition engine is designed to support the versatility required by basic research and discovery labs. Collect data from up to 32 subjects continuously or use scheduled sampling to collect only when you need it.

Take your research further by synchronizing external, non-telemetric signals and video streams with your telemetry data.

## Powerful Analysis

Stepping out of the time domain and into the frequency domain requires a shift in thinking. NeuroScore offers a versatile, streamlined solution to simplify this transition, combining easy-to-use frequency analysis, statistics, and filtering tools with efficient data processing and accurate data analysis to reduce time to results. Effortlessly view, browse, and synchronize signal and derived data using graphic and numeric displays.



EEG, EMG, activity, and video data analysis in NeuroScore

## Unlock Critical Insights

Advance your research with comprehensive solutions enabling measurement of crucial endpoints specific to your research application.

	EEG	EMG	Intracranial Pressure	Glucose	Respiratory	Temperature	Locomotor Activity
Sleep	■	■			■	■	■
Seizure	■				■	■	■
Affective & Anxiety Disorders	■					■	■
Movement Disorders	■	■			■		■
Neurodegenerative Disorders	■			■	■		■
Behavior					■		■
Traumatic Brain Injury	■		■	■	■	■	■
Spinal Cord Injury	■	■		■	■		■
Addiction	■	■		■	■	■	■

# Consider Your Future

Evolving research goals require flexible solutions. Reduce restrictions with a comprehensive system enabling data collection with multiple acquisition approaches.

## Implantable Telemetry

Elevate your science by avoiding common *in vivo* research challenges:

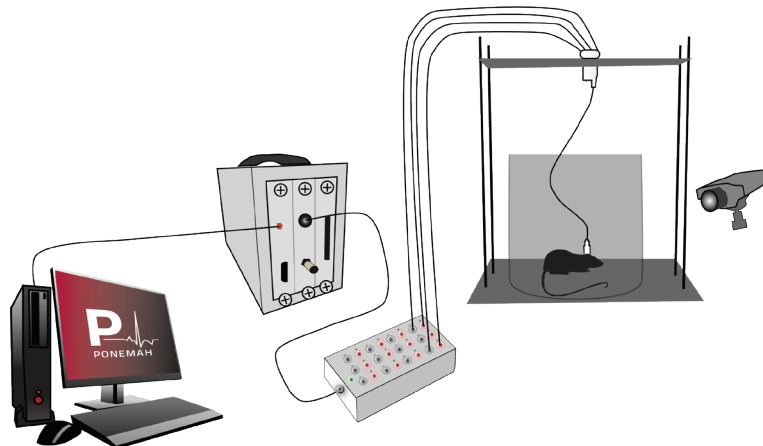
- Remove stress induced by handling and restraining animals
- Stop worrying about your data acquisition with trustworthy 24/7 sampling
- Reduce animal count and study cost by reusing animals and collecting high-impact data
- See the complete dataset with wide frequency ranges optimized to suit your research application



## Hardwired Acquisition

Confidently collect consistent, reliable data from tethered, acute, or high-throughput studies routinely performed in discovery, pharmacology, and toxicology laboratories.

Don't let channel count or bandwidth limitations drive your study protocol. Utilize the BIOPOD to achieve high channel count and bandwidth configurations.

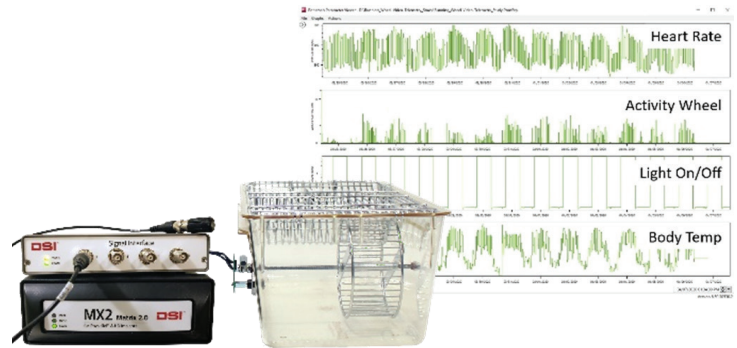


# Combined Approaches: Save Time & Use Fewer Animals

Advance your research with a holistic view of whole animal physiology.

## Behavioral Assessment

Make confident decisions with robust study designs by synchronizing physiologic data with behavioral assessments including forced and voluntary exercise, fear and operant conditioning, or evoked field potential.



## Respiratory Monitoring

Simultaneously evaluate respiratory and neurological effects by combining DSI plethysmography solutions with implantable telemetry, hardwired acquisition, optogenetic stimulation, or fluid swivels.



## DSICare

Putting the client first is inherent in DSI culture, and DSICare is simply our promise to you. Let's work together to ensure you are getting the most out of your DSI system and each study you conduct is a success.

*From initial surgery through final reporting, our expert team is available to support you every step of the way.*



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### Headquarters and North American Sales:

1-800-262-9687 (U.S.)  
1-651-481-7400 (International)  
[sales@datasci.com](mailto:sales@datasci.com)

### European Sales:

Tel: +1 651-481-7400  
[europe-sales@datasci.com](mailto:europe-sales@datasci.com)

### Asia Pacific Sales:

Tel: 86-21-50793177  
[apac-sales@datasci.com](mailto:apac-sales@datasci.com)