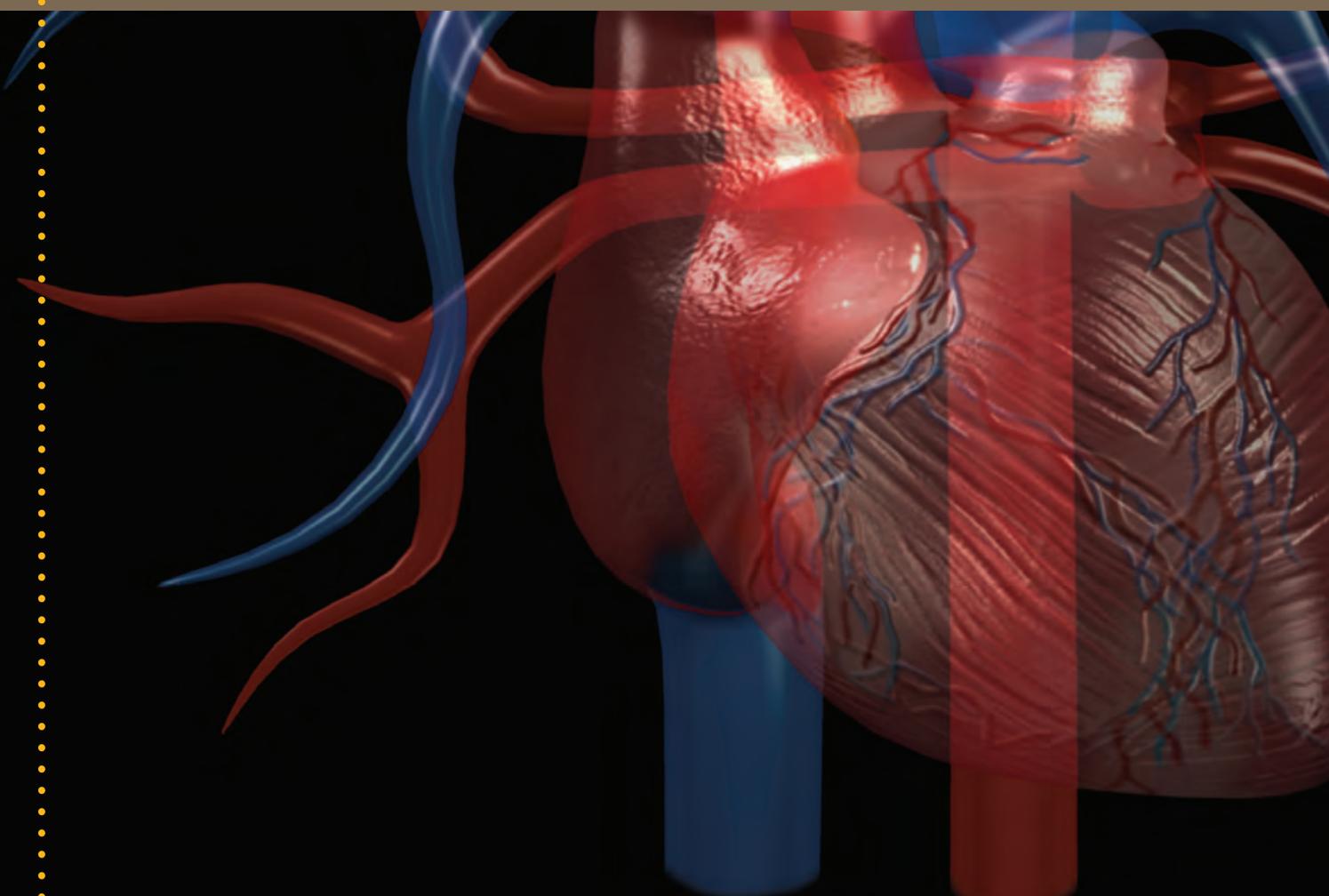


Cardiovascular Solutions



..... Designed with Your Research in Mind



Solutions You Can Trust for Your Cardiovascular Applications

DSI has developed proven technologies, products and services for researchers performing acute or chronic cardiovascular studies.

- A variety of products sense cardiovascular signals in small and large animal models: implantable telemetry, external telemetry, hardwired systems
- Flexible acquisition software platforms, powerful and efficient analysis modules
- Scientific services to help successfully start studies sooner with confidence

Ponemah™ Software

Integrated core software platform provides flexibility and versatility for cardiovascular studies.

SET-UP

- ... Efficient and flexible
- ... Simple, automated features

ACQUIRE

- ... Collect data from hardwired sensors, implantable or external telemetry

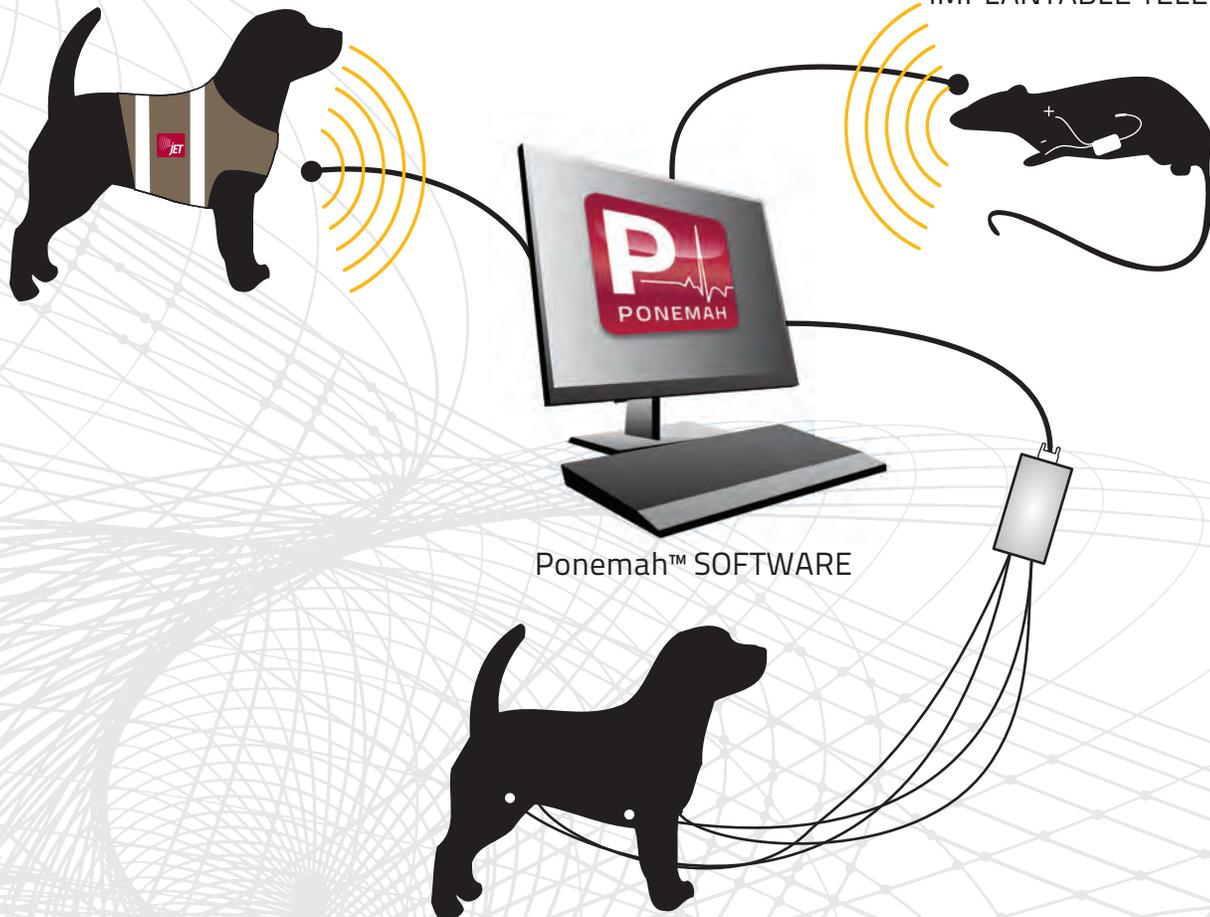
ANALYZE

- ... Maximum versatility with multiple analysis modules
- ... Report real-time, accurate results

Multiple Sensing Options with a Single Acquisition System

EXTERNAL TELEMETRY

IMPLANTABLE TELEMETRY



Ponemah™ SOFTWARE

HARDWIRED SOLUTIONS

Cardiovascular Parameters Available from DSI Solutions

AVAILABLE SOLUTIONS	METHODS		
	TELEMETRY		HARDWIRED
	Implantable	External	
Blood Pressure	▪	▪	▪
ECG	▪	▪	▪
Other Biopotentials (EMG, EEG, etc.)	▪		▪
Ventricular Pressure	▪		▪
Pulse Wave Velocity	▪		▪
Blood Flow			▪
Heart Rate Variability	▪	▪	▪
PV Loop			▪
Action Potentials			▪
Isolated Heart/Tissue			▪

Hardwired Solutions

DSI offers flexible and reliable hardwired acquisition systems that enable scientists to acquire a variety of cardiovascular signals from research animals.

Our systems offer easy to use, high quality designs to obtain accurate results. In addition, we offer a wide array of signal conditioners, amplifiers and accessories necessary for your studies.

These systems are complementary to DSI's implantable telemetry solutions, offering expanded physiologic monitoring capabilities to gain more data per research subject.

Telemetry Solutions

Proven health benefits for laboratory animals make telemetry the ideal choice for chronic physiologic monitoring. DSI offers implantable and external telemetry options for continuous measurement of cardiovascular data.

Implantable Telemetry

Designed for monitoring physiologic parameters in conscious, freely moving laboratory animals ranging in size from mice and rats to dogs and non-human primates.

- Collect stress-free data from research subjects
- Record high-quality pressure and ECG signals that can be combined with other physiologic endpoints
- Explore numerous cardiovascular research applications relevant to various stages of preclinical research

External Telemetry

Designed to monitor cardiovascular parameters in a non-invasive manner from large animals using jacketed external telemetry.

- Accurate measurements
- Easy to use with maximum portability
- Flexible and adaptable

Cardiovascular Telemetry Implant Offerings



SIZE (Species)	PARAMETERS	
	Pressure	Biopotential
Extra Small (Mouse)	PA-C10, HD-X11	HD-X11, ETA-F10, ETA-F20, EA-F20
Small Animal (Rat, Guinea Pig)	PA-C40, HD-S11, HD-S21	CA-F40, CTA-F40, HD-S11, HD-S21
Large Animal (Dog, NHP)	PA-D70, D70-PCT, D70-PCTP, L21, L11, D70-CCTP, D70-PCTR	D70-CCTP, CTA-D70, D70-PCT, D70-PCTP, L21, L11, D70-PCTR

Scientific Services

Available to help researchers successfully acquire and analyze cardiovascular data.

SURGICAL SERVICES > To help minimize surgical challenges with implantable telemetry

DATA ANALYSIS SERVICES > To aid in data evaluation and reporting

VALIDATION SERVICES > To ensure full software system compliance

About Data Sciences International

DSI is a pioneering biomedical research company focused on systems physiology and pharmacology. The recognized global leader in physiologic monitoring, DSI offers telemetry, instrumentation, software and services that help advance science. DSI serves many industries including: Pharmaceuticals, Academia, Contract Research Organizations, Biological and Chemical Defense, the Medical Device Industry, Government, and Biotechnology companies. We offer solutions that are tailored specifically to meet the unique research needs of our customers.

Unsurpassed Support

Should you need further assistance, DSI's Technical Support and Customer Service teams are located around the world.

To learn more, contact your local DSI Representative today!

www.datasci.com