

# Promethion Core™

## Metabolic and Behavioral Phenotyping System

Cutting-edge performance,  
scalability and workflow

The new Promethion Core is the first and only metabolic and behavioral measurement system that utilizes modern digital and computer technology to deliver the highest resolution data regardless of study size. This enables greater statistical power with fewer animals and simultaneous testing of more hypotheses. Multiple Promethion Core 8- and 16-cage systems can be networked together for unmatched parallel processing power and highest reproducibility. Real-time animal data are available from the web browser-based data management application, and can be accessed securely via wired or wireless Ethernet from desktop or mobile devices.

SableHD™ High Definition Technology is built into each Promethion Core system, allowing labs to capture respirometry data at 0.001% (O<sub>2</sub>) to 0.0001% (CO<sub>2</sub>) resolution or better—setting the standard that no other analyzers can match. Fastest cage time constant (full cage air exchange) and cycle time (multiplexed sampling rate every 2.5 minutes) allows the most accurate recording of fast-changing metabolic events.



### FEATURES

SableHD™ for highest resolution, sampling rate and accuracy

Multiple 8-cage and 16-cage systems can be networked together

Highest throughput and efficient workflow

Most accurate recording of fast-changing metabolic events

Flexibility to run multiple studies simultaneously

Secure browser-based access to real-time data and reports

Synchronization of metabolic data with activity, food and water uptake and body mass

Battery backup in case of power outage

New VOC and option to monitor gut microbiome activity

# Promethion Core™ Metabolic and Behavioral Phenotyping System

The **Promethion Core system** is based on 8- or 16-cage wheeled rack modules with independent mass flow controllers, analyzers, pumps, and an onboard real-time acquisition and analysis module. Each rack features a one-hour battery backup for uninterrupted data acquisition in the event of power interruption. Backward compatibility allows standard Promethion™ customers to cost-effectively integrate the new Promethion Core system into their lab.

The system allows for synchronized data collection of metabolic and behavioral measurements in studies ranging from 8 to hundreds of animals. Promethion Core provides a cage environment for the animals to thrive and behave naturally, giving you better, more reliable data. Cage configurations for temperature-controlled studies are also available. **Optional measurement of VOCs** provides screening information for changes in the gut microbiome. Researchers can see every aspect of metabolism and behavior more clearly, with finer detail, quality and trustworthiness.



Utilizing the revolutionary **IM-3 Acquisition Engine**, Promethion Core eliminates the need for a PC to acquire data. This technology utilizes cutting-edge computer architecture to provide sufficient processing power for any length and size of experiment you can design. The IM-3 platform offers the same world leading temporal resolution as standard Promethion systems with the added benefits of near-infinite expandability while reducing your cost per cage. It's configured in a standalone closed network (intranet) that can only be accessed by permitted devices.



New **magnetic mounts** for the mass measurement modules simplify cage maintenance. The optional **water-tight instrumentation housing**



allows the entire rack—including gas analyzers and flow control instrumentation—to be run through the cage washer for easy cleaning.



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