

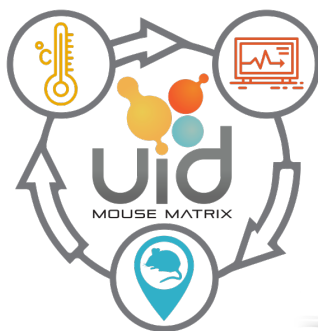
WHY MOUSE MATRIX IS INNOVATIVE?

This novel RFID-enabled system allows for continuous and remote monitoring of digital biomarkers, such as:

- locomotor activity,
- temperature,

for one or multiple mice in their home cage environment.

Once detected, the microchip activates and sends relevant data (animal ID, temperature, location, time&date) to the data collection software. Zone transitioning is done in rapid succession with timing adjusted by the user's specifications. Valuable research data can be collected automatically in real-time (24/7), even during the dark phase.

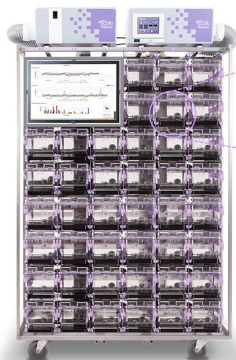


The undercage plate connected to the software can monitor in real-time, continuously, group-housed mice in a completely undisturbed, remote, long-term and stress-free setting.

APPLICATIONS OF MOUSE MATRIX

UID Mouse Matrix is dedicated for:

- Allentown's Reusable and Disposable IVC System with Integrated Mouse Matrix Plates,
- InnoRack – A High Performance IVC Rack with Integrated Mouse Matrix Plates,
- as well as mostly rodent conventional cages.





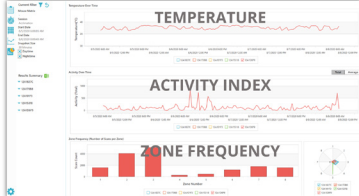
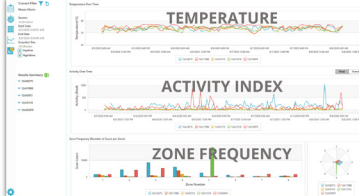


Allentown
Improving Life – it's in our DNA.®



**inno
VIVE**
WWW.INNOVIVE.COM

MATRIX SYSTEM COMPONENTS

<p>UID temperature programmable microchip</p> <ul style="list-style-type: none"> • Miniature RFID transponder with integrated temperature biosensor and presetted unique number • Temperature accuracy: $\pm 0.1^{\circ}\text{C}$ @ 38°C • Optimal temperature read range: $25^{\circ}\text{C} - 50^{\circ}\text{C}$ 	<p>Mouse matrix reader plate</p> <ul style="list-style-type: none"> • 6-zone or 8-zone configuration • Thin profile to maximize cage density • Compatible with static cages and select cage-rack systems 
 <p>Mouse matrix controller</p> <ul style="list-style-type: none"> • PC w/ SQL Express • Up to 10G data storage 	<p>POE switch</p> <ul style="list-style-type: none"> • 24-port switch, plus all cables • Power and communication for up to 24 plates • Multiple devices can be used 
<p>Mouse matrix software</p> <ul style="list-style-type: none"> • Intuitive program provides basic data graphing and analysis • Real-time access to data, and exported to Excel for further analysis • Server/client edition <div style="display: flex; justify-content: space-around;">   </div>	

MOUSE MATRIX – CONVENIENT AND EASY TO USE IN YOUR FACILITY

1. Insert microchip

Simply insert the miniature microchip in the animals, and place them back in their cage. The UID Temperature-sensing microchip provides mouse tracking capabilities: reliable temperature measurements with unmatched accuracy to $\pm 0.1^{\circ}\text{C}$.



2. Place Mouse Matrix under the cage

Place the UID Mouse Matrix reader under the cage for continuous (24/7) and undisturbed tracking of the animals' temperature and activity. The Matrix reader actively polls its antennae (plate zones) to scan the cage for the presence of any microchip within range.

3. Collect data

The UID Matrix Software collects and records the data from the Matrix system(s) as often as every 200 milliseconds. The program automatically captures physiological and behavioral biomarkers in real-time (24/7), and these data can be accessed remotely or stored for further analysis.



PROGRAMMING STATIONS AND INJECTORS



If you need add other unique number to the microchip you can use the UBS-60 programming station. Presented station allows for convenient programming of up to 8 transponder at one time. Microchips can be programmed in the sterile cannula, before unpacking.

UID offers a complete line of transponder injectors to fit the specific research need. From the low-cost, disposable devices to the fully autoclavable, reusable surgical field implanters, these injectors help facilitate microchip insertion.

