THE HEALTH MAT DEV KIT 3.0

The Smartest Plantar Analysis Solution

PRODUCT SHEET

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2- The Flooring Mat Platform

The Flooring Mat, based on the Sensing Mat Platform by Sensing Tex, is developed to take advantage of the collected pressure mapping on the floor.

The Flooring Mat Platform is an end-to-end solution to design smart connected products to collect data, recognize patterns and trigger actions based on the stretchable printed electronic technology patented by Sensing Tex.

The Flooring Mat allows for a big number of other sub-applications mainly in health, wellness & fitness,

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2- The Health Mat Dev Kit

The Health Mat, based on the Sensing Mat Platform by Sensing Tex, is developed to leverage the collected pressure mapping on the floor for in plantar foot analysis. The Flooring Mat Platform is an end-to-end solution to design smart connected products to collect data, recognize patterns and trigger actions based on the stretchable printed electronic technology patented by Sensing Tex.

This relevant information is then displayed in the Software provided; the user can use the insight to take the most appropriate decisions to enable or improve their wellness and health products. The system may be integrated with any other software.

This platoform can be used to either develop your software or you can use our Edge and Cloud Software

3- The Hardware

1- Mat
2- USB Cable
3- Protective Foam
4- Transportation Bag

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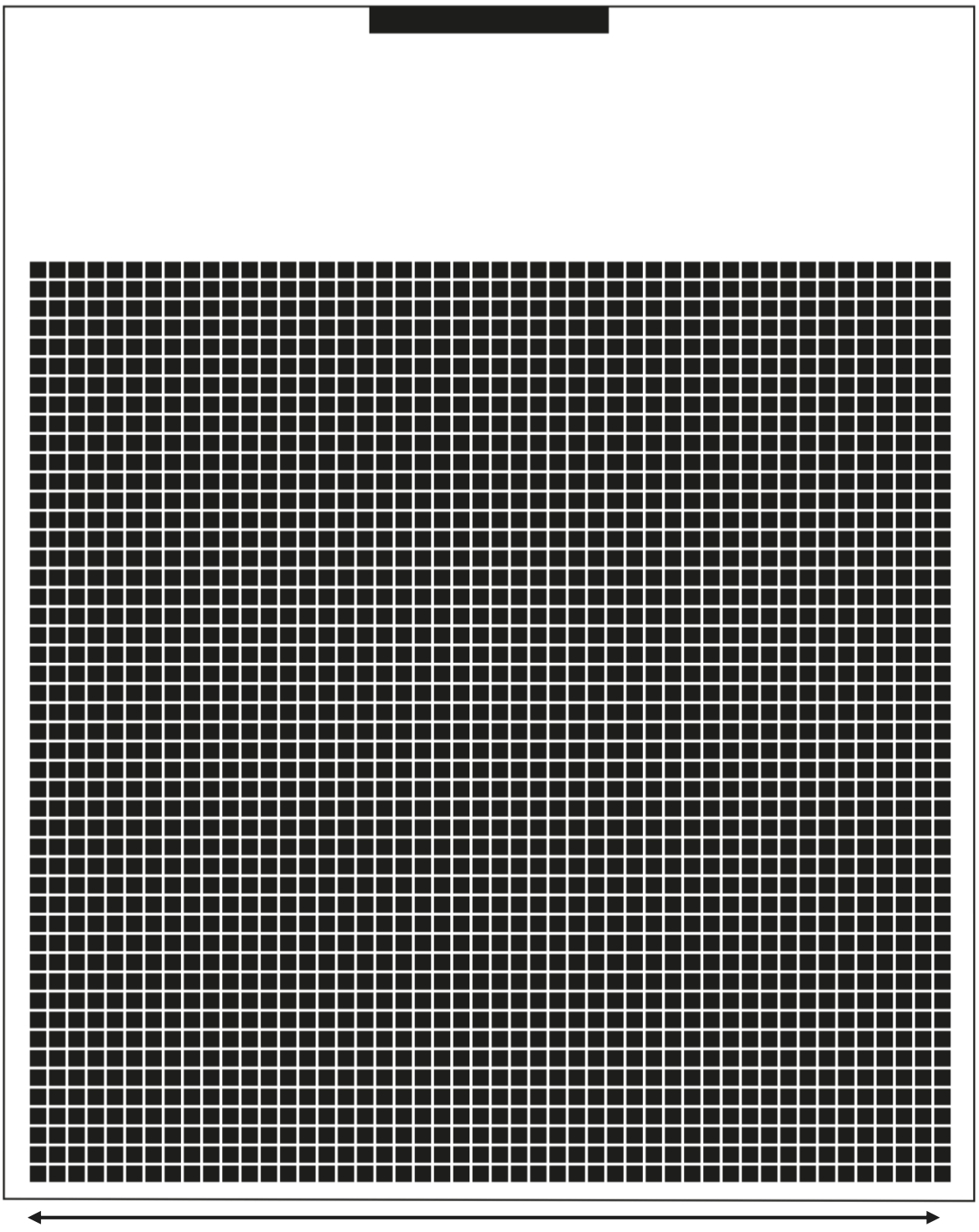
3- The Sensor Layout



#Rows: 48
#Columns: 48
Sensel Resolution: 10 mm

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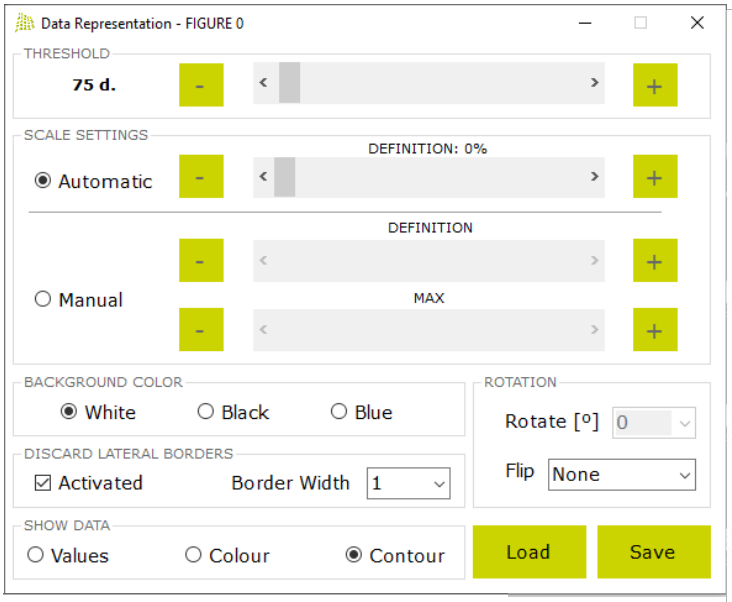
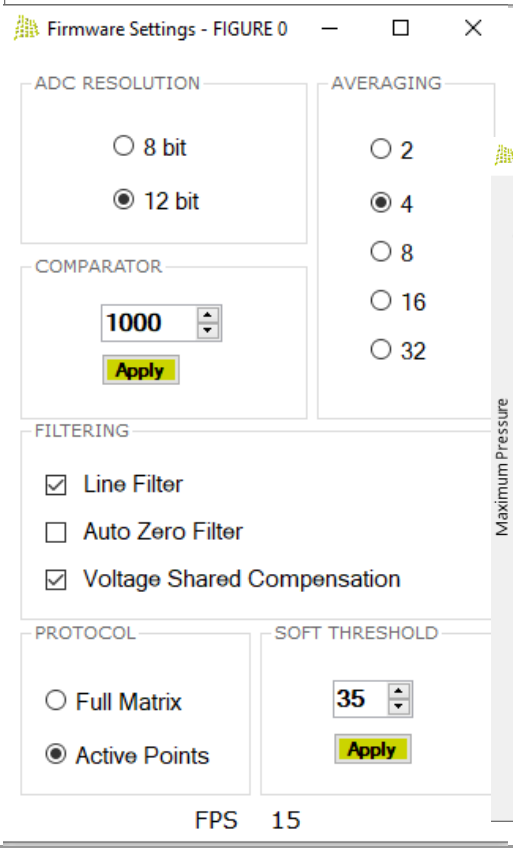
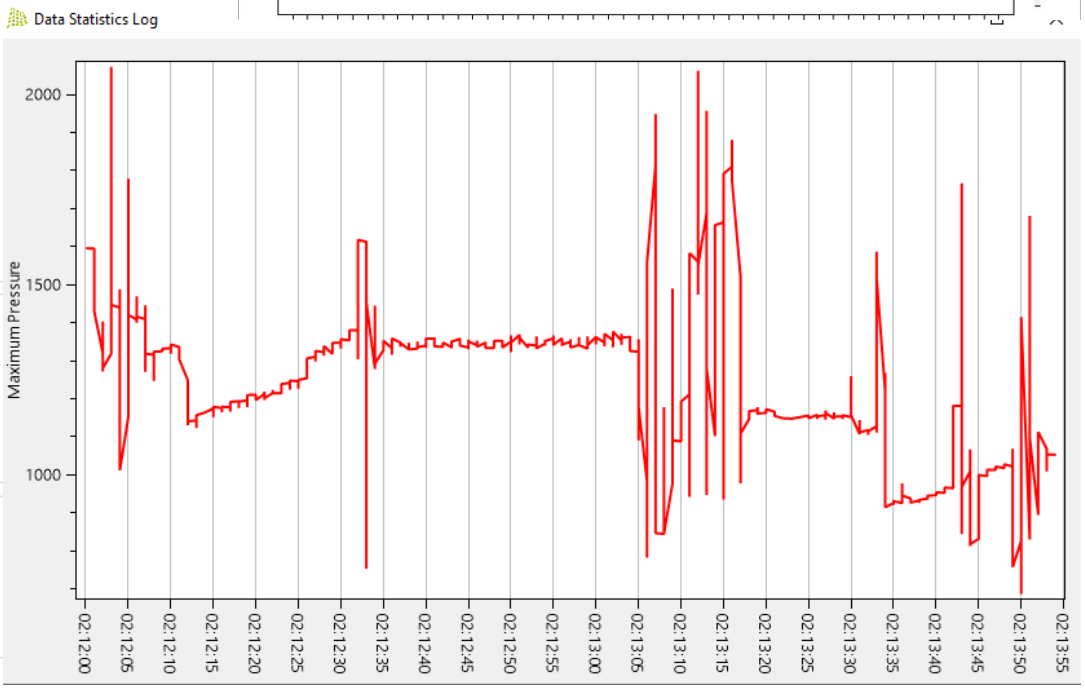
4- The Demo Software







Sample Images For Illustration Purposes Only

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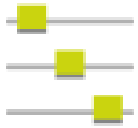
4- The Demo Software Features

Propriety bidirectional firmware

- ✓ USB Communication
- ✓ Configure ADC reading for data stability
- ✓ Configure Data filtering to minimize noise
- ✓ Configure Data compensation for a better pressure gradient image
- ✓ Configure Data compression for a better fps rate

Data Analytics Sensing Mat software



- ✓ Configure the visualization of the raw data
- ✓ Calibrate it in relative pressure units
- ✓ Play with raw data and analytics: statistics and data sets for Machine Learning ML
- ✓ Export to JSON and CSV files

THIS SOFTWARE IS FOR DEVELOPMENT PURPOSES

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Sensing Mat Features	
Overall Area (L x W) [mm]	604 x 521
Sensing Area (L x W) [mm]	480 x 480
Number of Sensor Elements	2304
Matrix Topology [R x C]	48 x 48
Sensor Element Resolution [mm]	10
Sensor Element Shape	Round
Sensor Element Size [mm]	6
Pressure Sensing Features	
Linearity Coefficient	0.99
Accuracy	10%
Pressure Range	20-10000 mmHg
Hardware Features	
ADC Resolution	8- 12 bits
Scanning frequency [Hz] Real	20-50*
OS & Platforms Compatibility	Windows, Linux, OSX, IoT, Android
Standard Connectivity Hardware	USB Serial
Standard Connectivity Enabled	USB Serial (24/7)
Connector Power	Micro-USB
Built in Battery	No
API	Available API to manage data streaming
Software Features	
Demo Software	Windows
Software Support	API & Software Developer Guide Provided & Technical Assistance

**Varies depending on the data compression, and receiving device*

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