

# THE TRAFFIC MAT 1.0

The Smartest Traffic People Counting Solution

PRODUCT SHEET

## 1- The Flooring Mat Platform

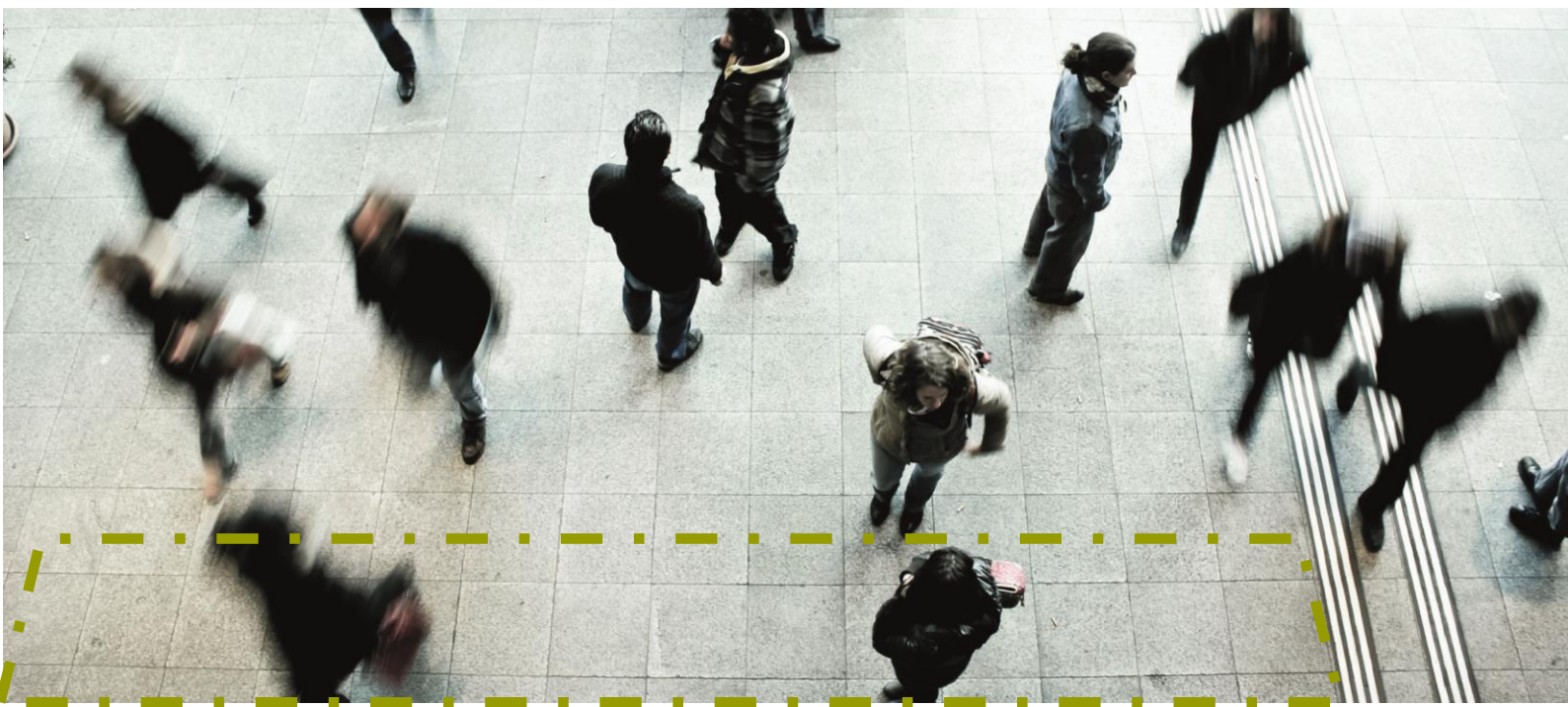


The Flooring Mat, based on the Sensing Mat Platform by Sensing Tex, is developed to take advantage of the collected pressure mapping on the floor.

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 research with presence detection, fitness and Healthcare.

## 2- The Traffic Mat Dev Kit



The Traffic Mat, based on the Sensing Mat Platform by Sensing Tex, is developed to leverage the collected pressure mapping on the floor and apply latest AI to recognize patterns such as step counting, gait analysis, people traffic counting among other magnitudes relevant for space management

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 facility, store, event or public transport space use. The system may be integrated with any other software at a Edge or at a Cloud Level.

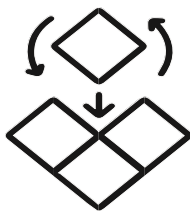
Get in touch with our team for more info:

[info@sensingtex.com](mailto:info@sensingtex.com)

4- The Traffic Mat Features



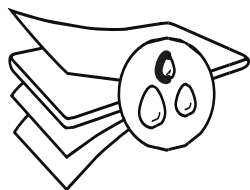
**PLUG & PLAY**



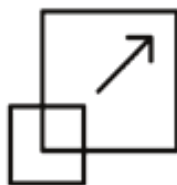
**MODULAR**



**PRIVACY**



**OUTDOOR  
VERSION**



**SCALABILITY  
IN SPACES**



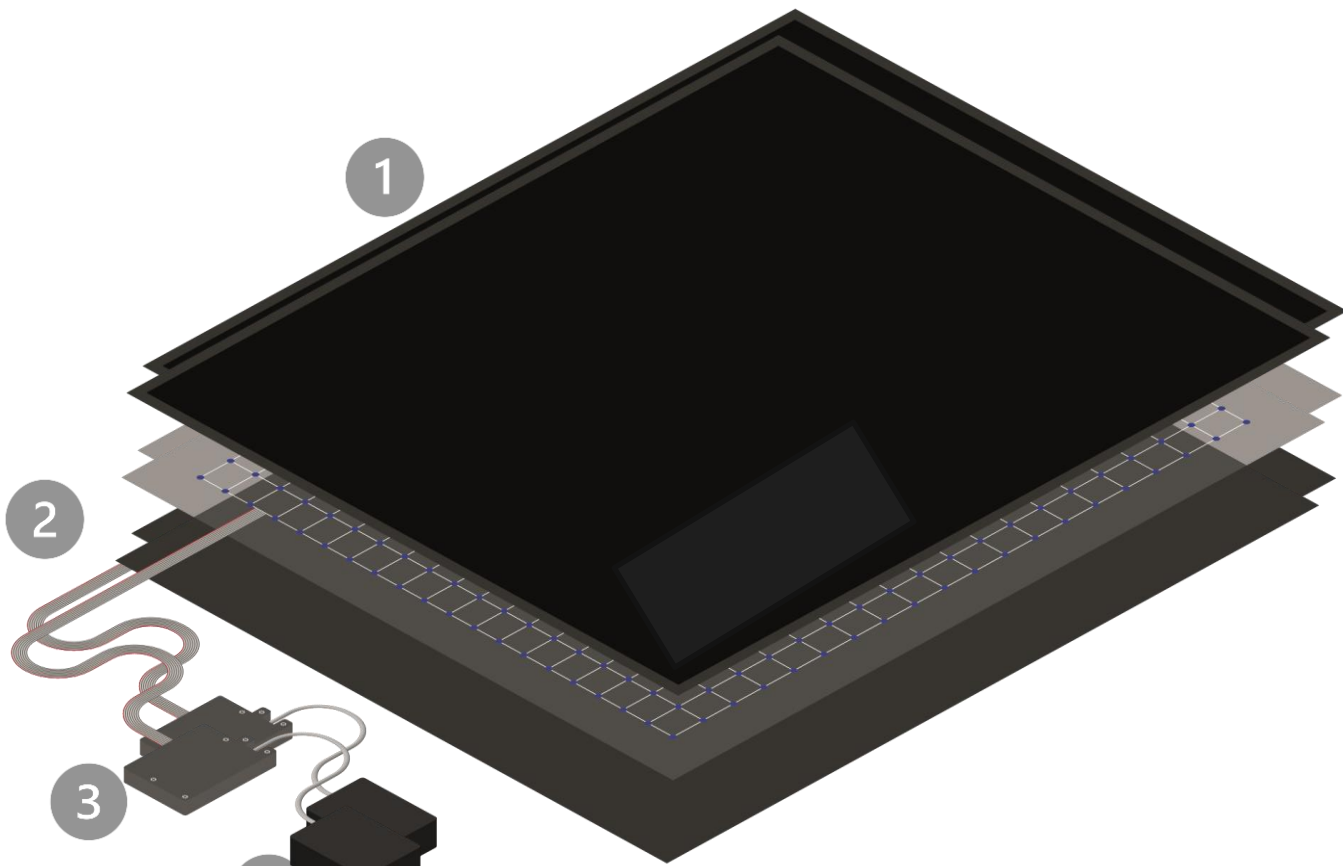
**REAL TIME**



**98% +  
BI-DIRECTIONAL  
COUNTING**



3- The Hardware



TRAFFIC MAT 1.1

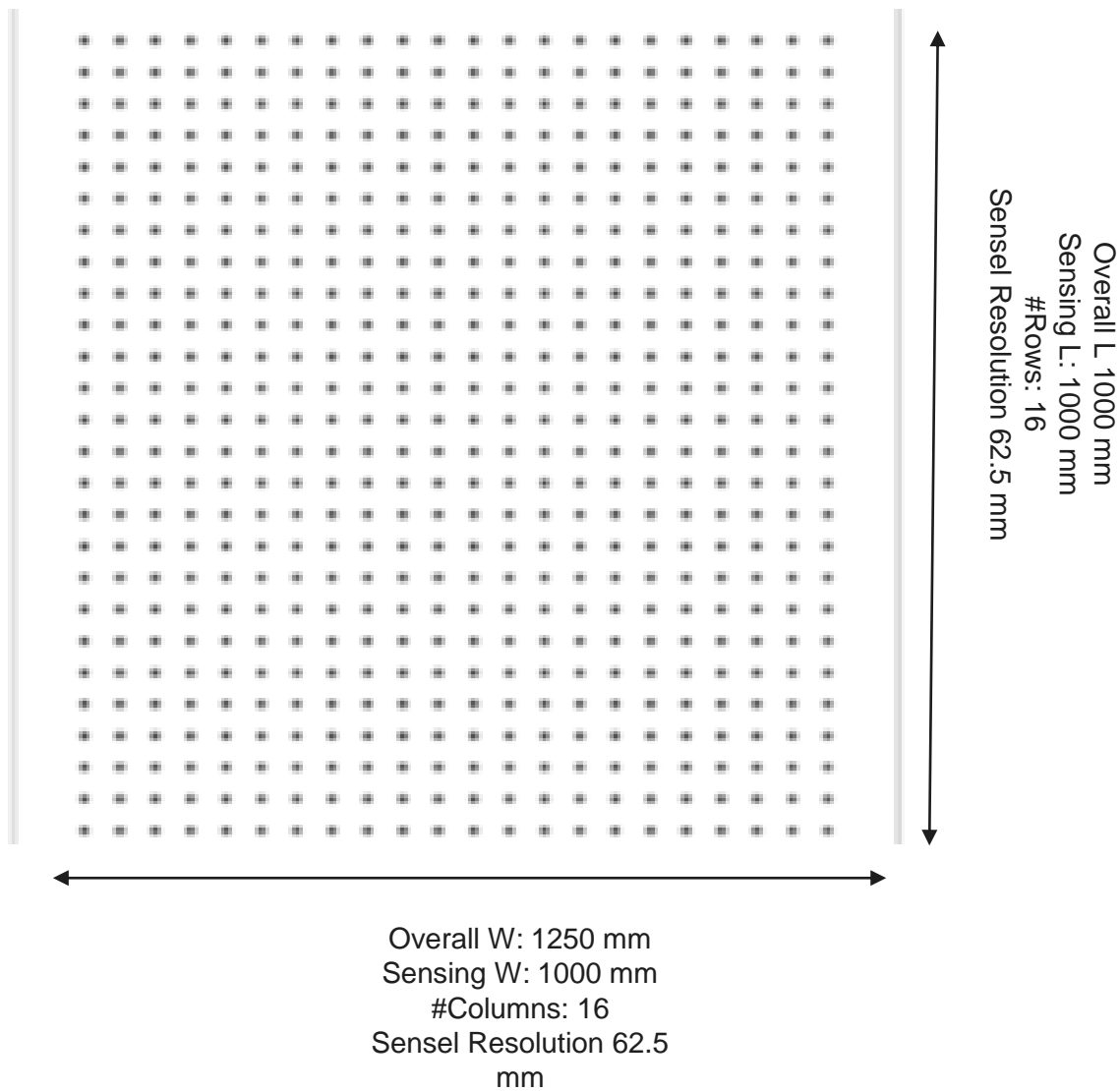


- 1- Sensing Mat
- 2- Cables and Straps
- 3- ADC Data logger Unit
- 4- Sensing Hub
- 5- Protective Foam & Transportation Bag

CE CERTIFICATE  
EU DECLARATION OF  
CONFORMITY



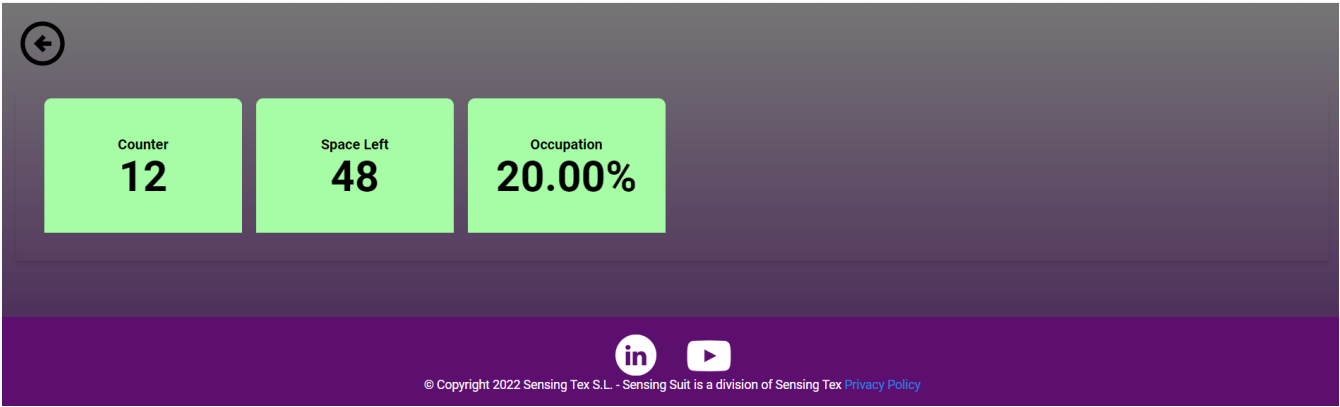
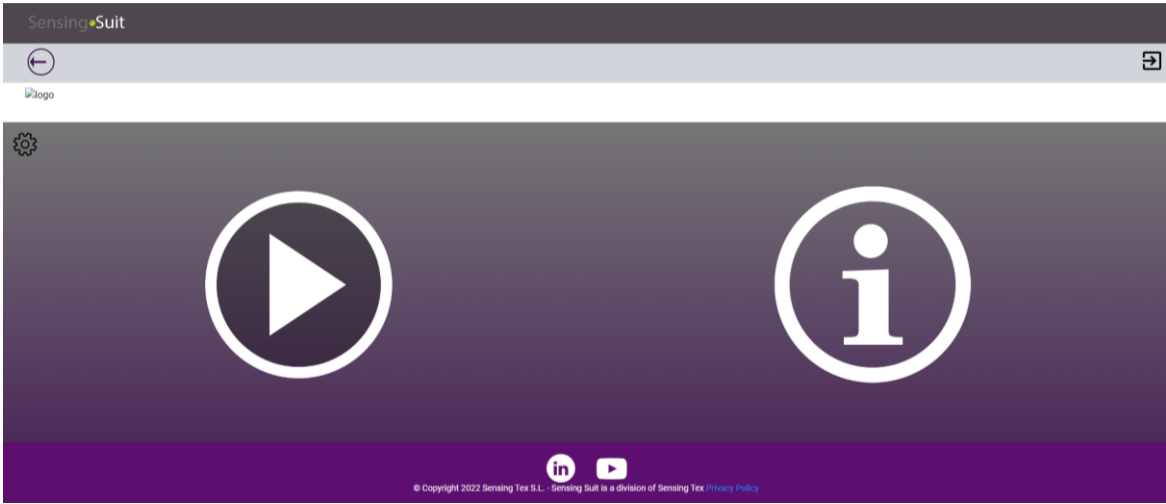
3- The Sensor Layout



This sensor arrangement was created to allow the use of the most up-to-date data analytics and artificial intelligence in all areas of the floor, making step counting, Gait Analysis, bi-directional people count and other analysis much easier.

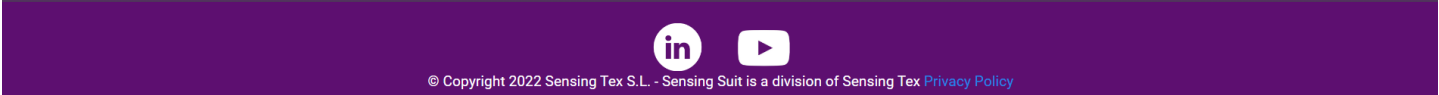
4- The Software

Sensing•Suit



Sample Images For Illustration Purposes Only

#	Counter Value	Timestamp
0	0	13/12/2022, 11:25:23
1	12	13/12/2022, 11:25:24
2	13	13/12/2022, 11:27:30



Sensing Mat Features	
Overall Area (L x W) [mm]	1000× 1250
Sensing Area (L x W) [mm]	1000 × 1000
Number of Sensor Elements	256
Matrix Topology [R x C]	16 x 16
Sensor Element Resolution [mm]	62.5
Sensor Element Shape	Square
Sensor Element Size [mm]	Grid
Cover	Yes EPDM
Pressure Sensing Features	
Linearity Coefficient	0.99
Accuracy	12%
Pressure Range	20-5000 mmHg*
Hardware Features	
ADC Resolution	8-12 bits
Scanning frequency [Hz]	1-70**
Edge Software Features	
Edge Computer	Yes
Software Support	Software at the Edge to enable Edge Features
	Software Updates at the Edge
Cloud Software Features	
Cloud	Yes
Software Support	Ask for the Cloud Software as a Service

*\*Varies depending on the communication settings*

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





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