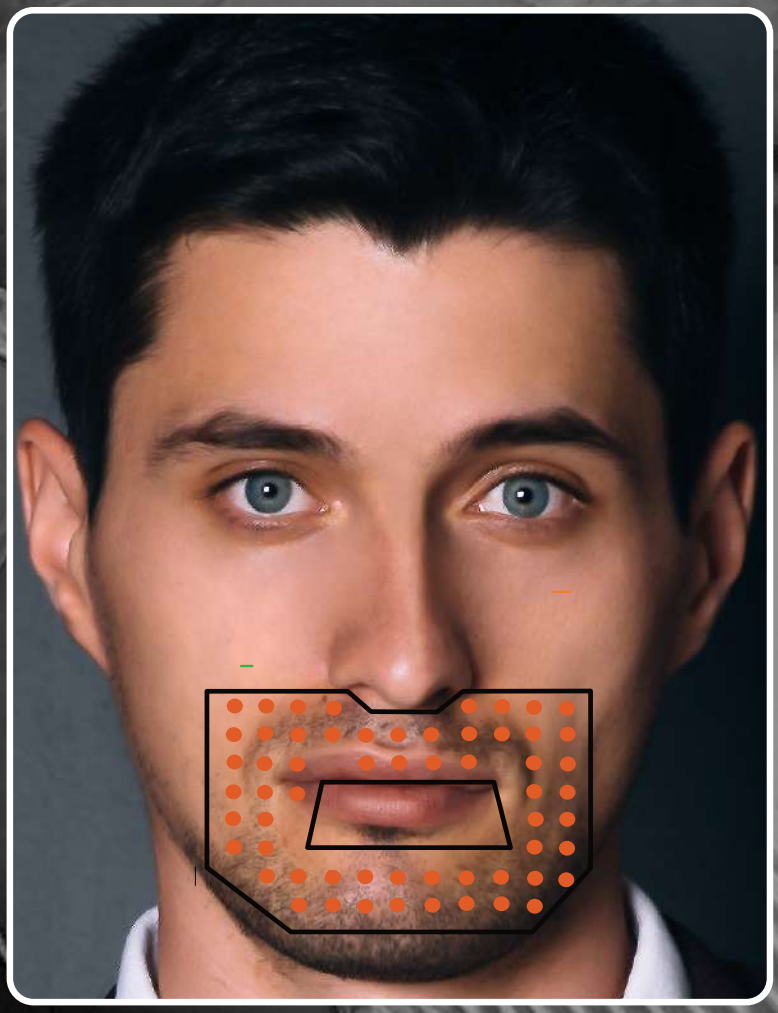
# Tactilus® *Real-time Tactile Pressure Analysis*

L-Series

## Application: Face Mask



Tactilus® is a flexible textile matrix-based tactile surface sensor — essentially an "electronic skin" that records and interprets pressure distribution and magnitude between the surface of the face mask and skin and assimilates the collected data into a powerful Windows® based tool kit. Each Tactilus® sensor is carefully assembled to exacting tolerances and individually calibrated and serialized.

Tactilus® employs sophisticated mathematical algorithms that intelligently separate signal from noise, and advanced electronic shielding techniques maximize the sensor's immunity to noise, temperature and humidity. The Face Mask Measurement System is densely packed with sensing points to provide you a wealth of surface pressure mapping resolution.

The Tactilus Face Mask Pressure Measurement System assesses the human interface and assimilates the critical elements of pressure distribution as well as magnitude to our powerful yet user-friendly Windows based "toolkit" software. Face mask design is often a tradeoff between effectiveness versus comfort and the Face Mask pressure measurement system allows you to readily home in on nuances of contact pressure. But our technology goes beyond just extraordinary sensitivity. With its ultra-thin profile that drapes and conforms like no other product on the market.

## SPECIFICATIONS

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|---|---|
| Technology | Piezoresistive |
| Surface Pressure Range | 0 - 5 PSI (0 - 0.35 kg/cm$^2$) |
| Sensing Area | 3.9 in x 4.3 in (10 cm x 11 cm) |
| Matrix | 10 x 11 |
| Number of Active Points | 90 |
| Scan Speed | Up to 4.5 fps |
| Spatial Resolution | Custom from 0.39 in (10 mm) |
| Thickness | 70 mils (1.78 mm) |
| Accuracy | ± 10% |

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