

규격서

품명 및 규격 Description	단위 Unit	수량 Quantity
체압분포측정기 (Pressure mapping system)	set	1

A. Feature

장치의 용도는 고해상도 어레이 형태의 압력센서를 이용하여 실시간으로 2D, 3D로 압력분포를 측정하고 데이터를 시각화 분석하는 것임.

신체피부와 접촉이 이루어지는 다양한 부분에 대하여 고속으로 정확한 압력측정이 가능해야 하며 특히 굴곡진 3차원 신체부위의 측정이 가능하도록 플렉서블하고 내구성이 뛰어나야 함.

1. 실시간 압력 (Pressure range 0.1 - 15 psi) 분석이 가능한 유연한 체압분포 측정기임
2. 센서 반응 속도 Sampling rate : 112000 senses/sec, Sampling resolution : 16 bit, Min. cell measurement time : 35 μ sec
3. 실시간 2D, 3D view, Histogram, Video, Cross—section, Peak, Contact area, Group 데이터 분석
4. 최대 측정가능 센서 12개
5. 특수목적용 Prosthetic leg 측정센서 사이즈 152 × 76mm
6. Sensing Area Thickness 0.11mm, Accuracy 5% full scale, Spatial Resolution : 5.08 mm

B. Component

1. Main Electronics
2. sensor pack includes sensor connection & cable
3. Prosthetic leg pressure mapping sensor
4. Software
5. Carry case
6. Power supply

C. Specification :

1. Main Electronics : The Main Electronics provides four data ports, control signals, communication relay functionality, electrical isolation, external synchronization capability and power for the sensor system.

- sensor cell capacity : 768 x 768
- sensor Ports : 4

2. Sensors pack

- display functionality : LED; green power-on, amber-fault
- sensor cell capa. : 64 x 64
- sampling rate : 112000 senses/sec
- sampling resolution : 16 bit
- min.cell measurement time : 35 μ sec

3. Prosthetic leg pressure mapping sensor

- Sensing area : 152 \times 76 mm
- Pressure : 0.1 - 50 psi
- Thickness : 0.11 mm
- Spatial Resolution : 5.08 mm

4. Software

Software provides a dynamic way for design and test engineers to gather pressure data in high resolution and process the information for comparisons and calculations. It's ease-of-use, stability and data integrity makes it the go-to tool for automotive and performance engineers working in a wide range of applications.

- Dynamic preview mode
- Record a dynamic preview session
- File management explorer
- Time and recording trigger
- Pressure movie creation
- Video sync
- 2D, 3D view
- Frame compare
- Histogram
- Configurable multi-view
- numeric mode
- Cross-section view
- Peak pressure, center of pressure
- contact area calculation
- Sensor cell group analysis
- Data import & export
- Screen capture
- Sensor calibration wizard
- Merge recordings from different sensors
- Batch export of raw or calibrated files

5. Carry case

The Carry case -soft is designed to carry a rolled sensor and all the corresponding Main Electronics, Software USB, and User Guide.

6. Power supply

The Power supply is a certified power supply that is sold with country specific power cords.

- External Power supply : Input 100-240 VAC, 47-63 Hz, > 1A
Output 12 VDC, > 3A

D. Remarks :

1. One year's warranty shall be provided after installation.
2. The installation should be carried out by the provider at the end-user's site.
3. Installation and test run should be performed by the qualified engineer that has service certificate issued by manufacturer and bidder must submit certificate of manufacturer in contract, which authorize its agency for further service and maintenance.