We Know Your Favourites

Sales and Marketing Dep.

aramed
HEALTH TECH STUDIO

ARAMED PRODUCTS | 2021

You are always welcome to experience working with the systems in Aramed central office show room. Do not hesitate to contact us!

0098-21-42167000 INFO@ARAMEDHEALTH.COM WWW.ARAMEDHEALTH.COM

About Aramed

Arman Tajhiz Medisa Company (Danesh Bonyan) was established in 2013 under the brand name Aramed. As a creative company, Aramed has been pursuing the mission of developing health technologies by offering high tech products. Establishment of the first Iranian FAB-center for manufacturing of fully-customized orthotics by CAD/CAM technology, design and manufacturing of tens of medical systems in different medical branches, development of CADSOL3D as one of the most advanced CAD/CAM softwares in the orthotics and prosthetics, etc. are some of our accomplishments in the recent years.
In addition to domestic products, Aramed offers the products of two well-known companies, Diers Germany and Medicapteurs France, in the form of an official distributer in Iranian Ministry of Health to the medical centers in the country. Aramed, with the benefit of multi-disciplinary teams in the fields of engineering and medicine, as well as continuous cooperation with universities, companies and research centers around the world, is responsible for offering the latest and highest quality products needed by the country's medical community.
Aramed team is always ready to hear your questions and suggestions.

Aramed Head Office
Zaferanieh, Tehran

Product Categories:

Products are categorized into four major groups:

- Devices
- Packages of systems
- Software
- Orthotics

Main clients:

- Physical medicine centers
- Physiotherpy clinics
- Sport medicine centers
- Orthopeadic centers and hospitals
- Spine surgery hospitals
- Technical orthopeadic clincs
- Orthodontics clinics
- Pediatric clinics and hospitals
- Corrective motion centers
- Professional sports clubs
- Shoe manufacturers
- ...

Aramed Workshop, IROST

2D Foot-scanning System

Model: 2FS-ATM

Types: CS,CC,Du

- Simple and Fast
- Portable
- Smart Index Calculation
- Insole Design Software

Definition:
2D Foot-scanning Systems

In classification of the foot scanning systems, 2D foot-scanners are principally identified as the simplest systems for screening of the foot structural disorders. Although 2D systems don't give medial arch height, these systems are typically lighter, portable, and have good potential for calculation of the foot indexes. Despite lack of height data in 2D scanning, an experienced examiner may use the results for design of orthotics in CAD/CAM software.

Product Features:

Aramed 2D foot-scanner gives the examiner a sharp 2D-view of the subject's foot to analyze the shape and use it for design of the foot insoles. The system is fully matched with CADSOL3D software for design of insoles and supports PNG format as the output file. The system benefits from reliable software to auto-calculate main diagnostic parameters of the patient's foot.

Types of the System:

Aramed 2D foot-scaners are in three types of:

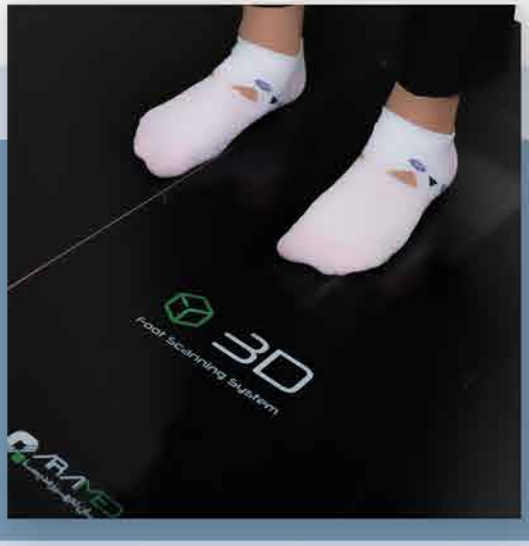
- 2FS-CS: Scans feet one by one (Low Res)
- 2FS-CC: Scans feet one by one (High Res)
- 2FS-Du: Scans two feet simultaneously (High Res)

Classifying Indexes:

The most reliable and validated foot indexes, including Chippaux Smirak, Staheli and arch index are being calculated and printed in the final report of the system. Other generic parameters like foot length, width and medial arch height are also measured automatically to be employed in the insole design process.

3D Foot-scanning System

Model: 3FS-ATM



- Ultra-Accurate
- Support STL Output
- Wifi Connection
- Insole Design Software

Definition:

3D Foot-scanning Systems

In classification of the foot scanning systems, 3D foot-scanners are principally identified as the best systems for design and manufacturing of foot orthotics. 3D foot-scanning systems should be matched with a powerful CAD/CAM software or support standard output formats.

Product Features:

Aramed 3D foot-scanner gives the examiner an ultra-accurate 3D-view of the subjects' feet to analyze the shape and use it for design of the foot insoles. The system is fully matched with CADSOL3D software for design of insoles and supports STL format as the output file.

Modes of Work:

According to the medical protocols applied by the examiner, he/she may use 3D foot-scanner in each of the following modes:

- Weight bearing (standing with full weight on the device)
- Semi-weight bearing (putting each foot on the scanning surface while the patient is sitting)
- Non-weight bearing (Examiner keeps the foot in a distinct distance from the scanning surface in a neutral position when the patient is lied down on a bed.

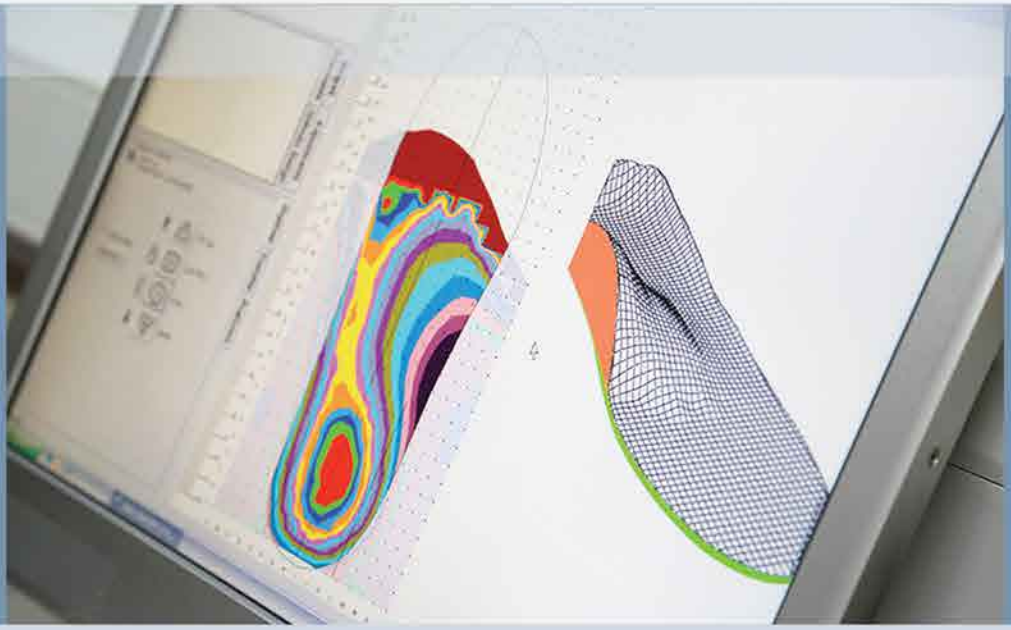
Classifying Indexes:

The most reliable and validated foot indexes, including Chippaux Smirak, Staheli and arch index are being calculated and printed in the final report of the system. Other generic parameters like foot length, width and medial arch height are also measured automatically to be utilized in the insole design process.

Wifi Connection:

User may need to displace the system to use it in different modes (semi, none or full weight bearing). Eliminating the wire connection between the foot-scanner and computer helps the user to utilize the system in each mode of application.

3D Footscanning System



Output of 3D Foot-scanners:

Aramed 3D foot-scanners outputs include:

- Final printable report, including the main measured indexes
- 3D model of the feet in STL format
- CAM file of the insole

Insole Manufacturing:

The data aquired from examinations would be tranfered to CADSOL3D software to design customized insole, sandal or shoes.

aramed
HEALTH TECH STUDIO

Technical Specs:
3D Foot-scanning Systems

Dimensions (mm)	730×370×155
Weight (kg)	14.3
Max weight (kg)	130
Scanning size	300×160
Power (V)	12
Max scan height (cm)	5
Cameras number	2
Lasers number	2
Output format	STL
Computer Connection	Wifi
CAD Software	CADSOL3D
Windows	7/10

Foot Pressure Measurement System

Model: Pedyn-2300

- Fast and Accurate
- Static and Dynamic Analyses
- CoP Monitoring
- Light and Portable

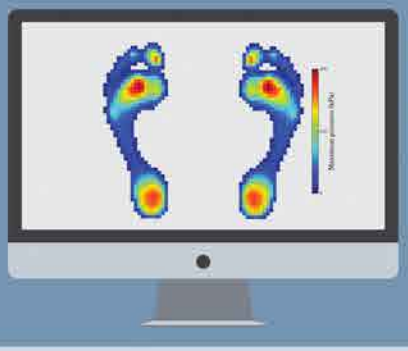
Definition:
Foot Pressure Platforms

Foot pressure platforms are dynamic analysis systems, basically used for discovering bio-mechanical function of the foot during gait and stance. The hardware must support high accuracy, durance and frequency in data acquisition from the subject's feet in each step, while the software has to collect the data, process it and plot the results.

Product Features:

Resistive foot pressure analyzer, benefits from 2288 FSR sensors to acquire plantar pressure at up to 100 frames per second frequency. Every Aramed pressure analyzer is calibrated during manufacturing, guaranteeing accurate and reliable pressure measurement.

aramed
HEALTH TECH STUDIO



Modes of Application:

• Static Mode:

- Pressure contours in stance mode
- Weight zones comparison
- Stabilogram for balance studies
- Heel calcaneal varus/valgus

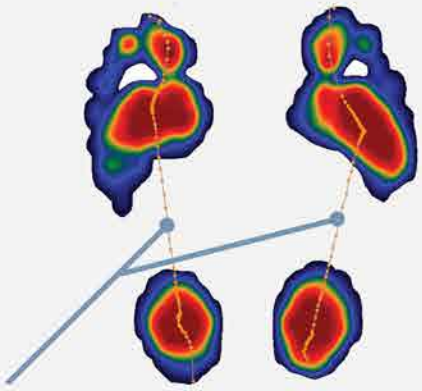
• Dynamic Mode:

- Pressure distribution contours during walking, running
- Frame by frame analysis of the gait
- CoP trajectories during gait
- Time varying curves for force, pressure, footprint area, etc.
- Automated data acquisition

Foot Pressure Measurement System

CoP Trajectory:

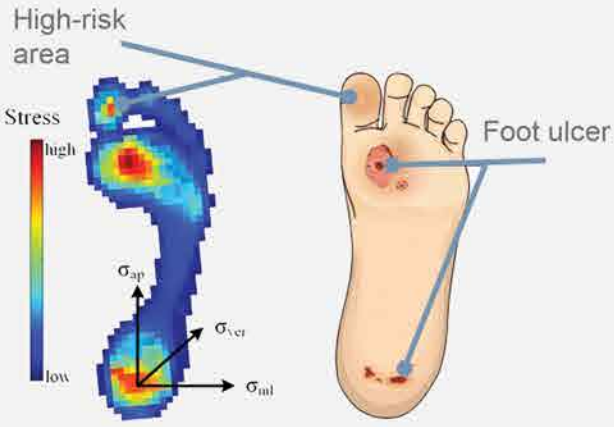
CoP trajectory curve is extracted and animated during the exam. CoP curve reflects significant data about functional and structural disorders of musculoskeletal system. Dots number, proximity and form of distribution are highly correlated with gait phases, type of walking, foot pronation/supination, balance status and variety of neurologic disorders, etc.

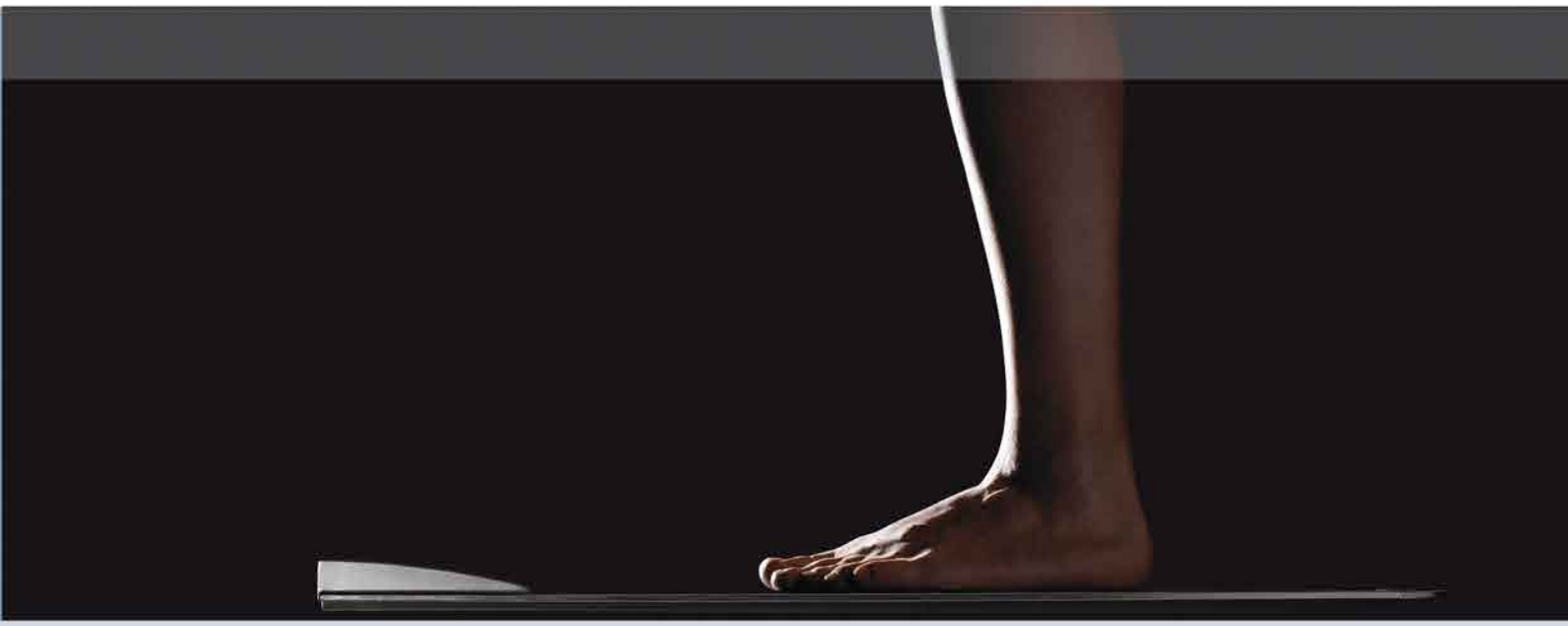


CoP trajectory curve

Diabetic Foot:

In diabetic patients, stress concentration points are potentially high-risk area for foot ulcer formation. Aramed foot pressure platforms show the examiner high risk points through surveying the pressure in static and dynamic modes.





Technical Specs:
Foot Pressure Measurement system

Dimensions (mm)	543×504×30
Weight (kg)	3
Max weight (kg)	110
Scanning size	365×320
Sensor type	Resistive
Sensors number	2288
Power	Self-powered
Data Freq. (Hz)	100
Computer Connection	USB
Windows	7/10

Spinal Mouse

Model: SM-ATM

Fast

Accurate

Wireless

X-ray free

Definition:
Spinal Mouse

Spinal Mouse is a device that, combined with a computer program (PC), assesses the curvatures of the vertebral column without applying harmful radiation.
Spinal Mouse checks spine alignment, measuring segmental and global angles in the sagittal and frontal planes. The device is guided manually on the skin along the spine. There is a strong relationship between the surface line on which the measurement is performed and midline of the spine in terms of alignment, range of motion, function and performance of its functions. The measuring head follows automatically its contour in the sagittal and frontal plane and records clinically relevant data. A software program using a highly sophisticated algorithm uses this information to calculate the clinical parameters.
Compared with other existing methods, SpinalMouse offers many advantages in terms of accuracy, objectivity, reproductibility, data presentation, non-invasiveness, absence of harmful radiation, ease of use and excellent cost-benefit ratio.

Measurements are:

- Quickly and easily performed
- Accurate and reliable
- Harmless to the patient

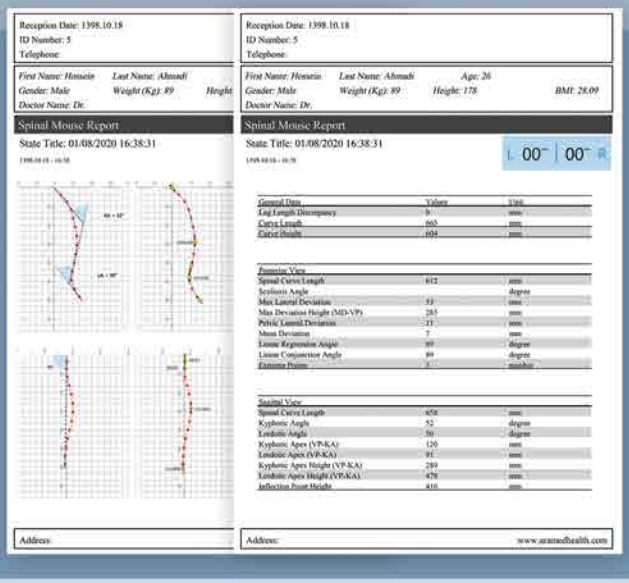
Technical Performance Priciples:

The Spinal Mouse device includes two rollers included on a mobile support that allows spinous contour tracking. This shape is recorded by three sensors (one for each plane of three-dimensional system of carthesian axes x, y, z) which, via a Bluetooth connection, transmit clinically relevant data to the computer program.

The software program for Spinal Mouse represents the true backbone configuration using a sophisticated algorithm, implemented by the manufacturing company. Its posture and mobility assessment is based on sets of measures in sagittal and frontal planes and the close connection between the back surface and the median line of the spine.

Results show excellent validity when compared to X-rays. The SpinalMouse software displays the results, emphasizing values such as hypo or hyper mobile vertebral joints or deviations from reference values.

Spinal Mouse


Reception Date: 1398.10.18
ID Number: 5
Telephone:

First Name: Hossein Last Name: Ahmadi
Gender: Male Weight (Kg): 89 Height
Doctor Name: Dr.

Spinal Mouse Report

State Title: 01/08/2020 16:38:31

Reception Date: 1398.10.18
ID Number: 5
Telephone:

First Name: Hossein Last Name: Ahmadi Age: 26
Gender: Male Weight (Kg): 89 Height: 178 BMI: 28.09
Doctor Name: Dr.

Spinal Mouse Report

State Title: 01/08/2020 16:38:31

L 00° | 00° R

General Data	Value	Unit
Leg Length Discrepancy	0	mm
Curve Length	665	mm
Curve Height	404	mm

Posterior View		
Spinal Curve Length	612	mm
Scoliosis Angle		degree
Max Lateral Deviation	53	mm
Max Deviation Height (MD-VP)	285	mm
Pelvic Lateral Deviation	13	mm
Mean Deviation	7	mm
Linear Regression Angle	89	degree
Linear Conjunction Angle	89	degree
Extreme Points	5	number

Sagittal View		
Spinal Curve Length	658	mm
Kyphotic Angle	52	degree
Lordotic Angle	50	degree
Kyphotic Apex (VP-KA)	120	mm
Lordotic Apex (VP-KA)	91	mm
Kyphotic Apex Height (VP-KA)	289	mm
Lordotic Apex Height (VP-KA)	478	mm
Inflection Point Height	416	mm

Address:

Address: www.arasmedhealth.com

Transparent and Simple Patient Information

Systematic measurement of the spinal column is a reflection of professionally administered therapy. Simple and easy to understand graphics provide a basis for informing the patient. Regularly repeated measurements underline the patient's progress.

Professional Documentation at the Press of a Button

All data is saved during the course of treatment which means that detailed documentation can be prepared at any time for colleagues, health insurance organisations and others. Any necessary therapy or treatment can therefore be clearly and objectively justified.

Economically Feasible

Using the SpinalMouse also makes sense from an economic standpoint. Measurements can be completed efficiently in just a few minutes with the results presented visually. This increases the quality of therapy and improves customer retention.

aramed
HEALTH TECH STUDIO

Technical Specs:
Aramed Spinal Mouse

Dimensions (mm)	140×100×55
Weight (g)	300
Power supply	Chargeable battery
Voltage	8.4 V
Connection	Bluetooth
Windows	7/10

Tilt-meter

Model: TM-ATM

Fast

Accurate

Wireless

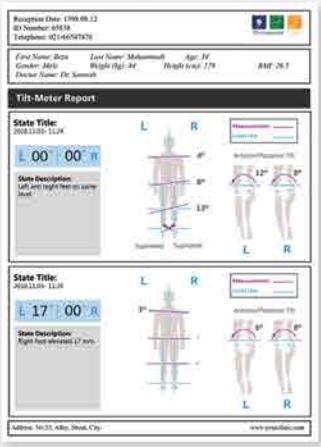
X-ray free

Definition:

Tilt-meter

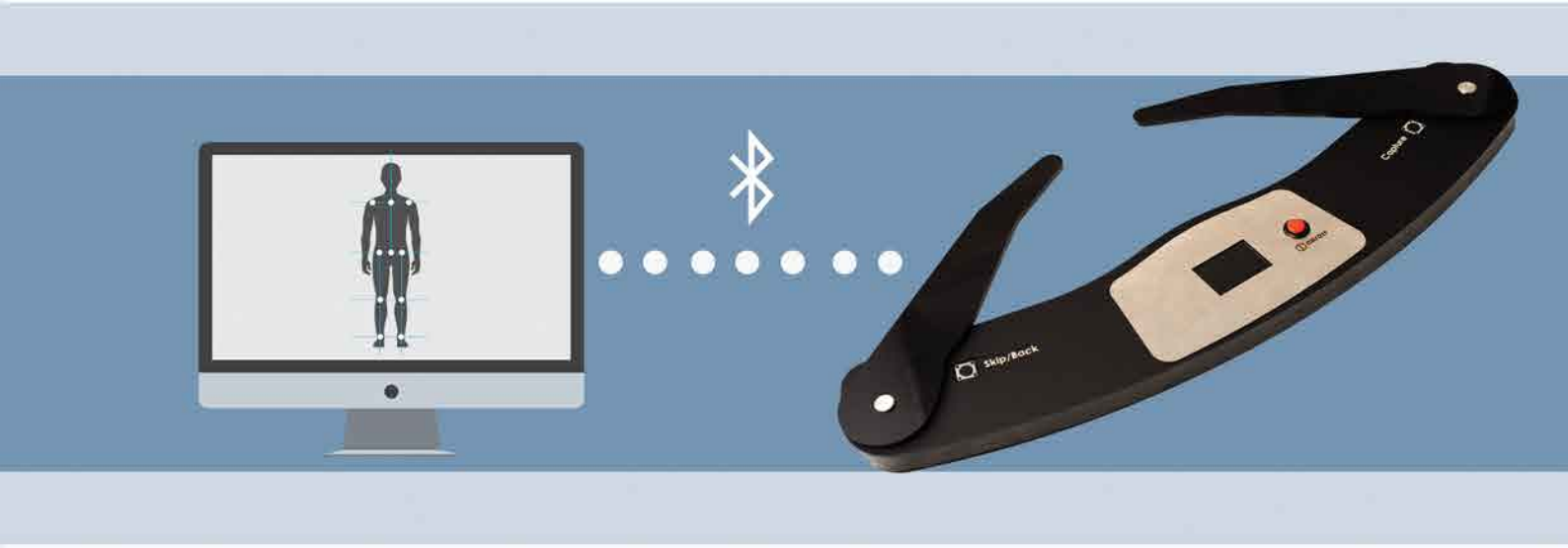
Tilt-meter is a device that, combined with a computer program (PC), assesses the tilts of the body without applying harmful radiation. Tilt-meter checks body alignment, measuring segmental and global angles in the sagittal and frontal planes. The device is guided manually without needing any marker on the skin.

This device can be coupled with LLD-simulator in Orho-station or Posture-station packages and measures right/left and anterior/posterior tilt angles in shoulders, pelvis and knees, etc.



Technical Specs:

Dimensions (mm)	440×120×30
Weight (g)	900
Power supply	Chargeable battery
Power (V)	8.4
Computer Connection	Bluetooth
Windows	7/10

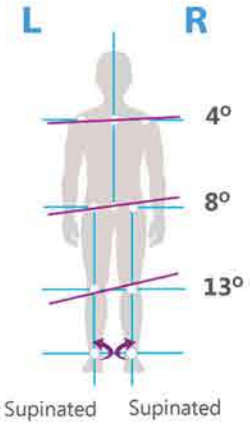


Modes of Application:

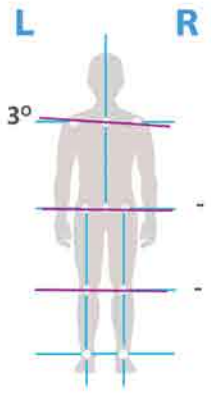
- **0-0 Mode:**

- **Compensated LLD:**

Coupling with LLD-simulator, tilt-meter can quanitatvely evaluate the effects of LLD compensation in the patients, suffering from leg length discrepancy.



Before



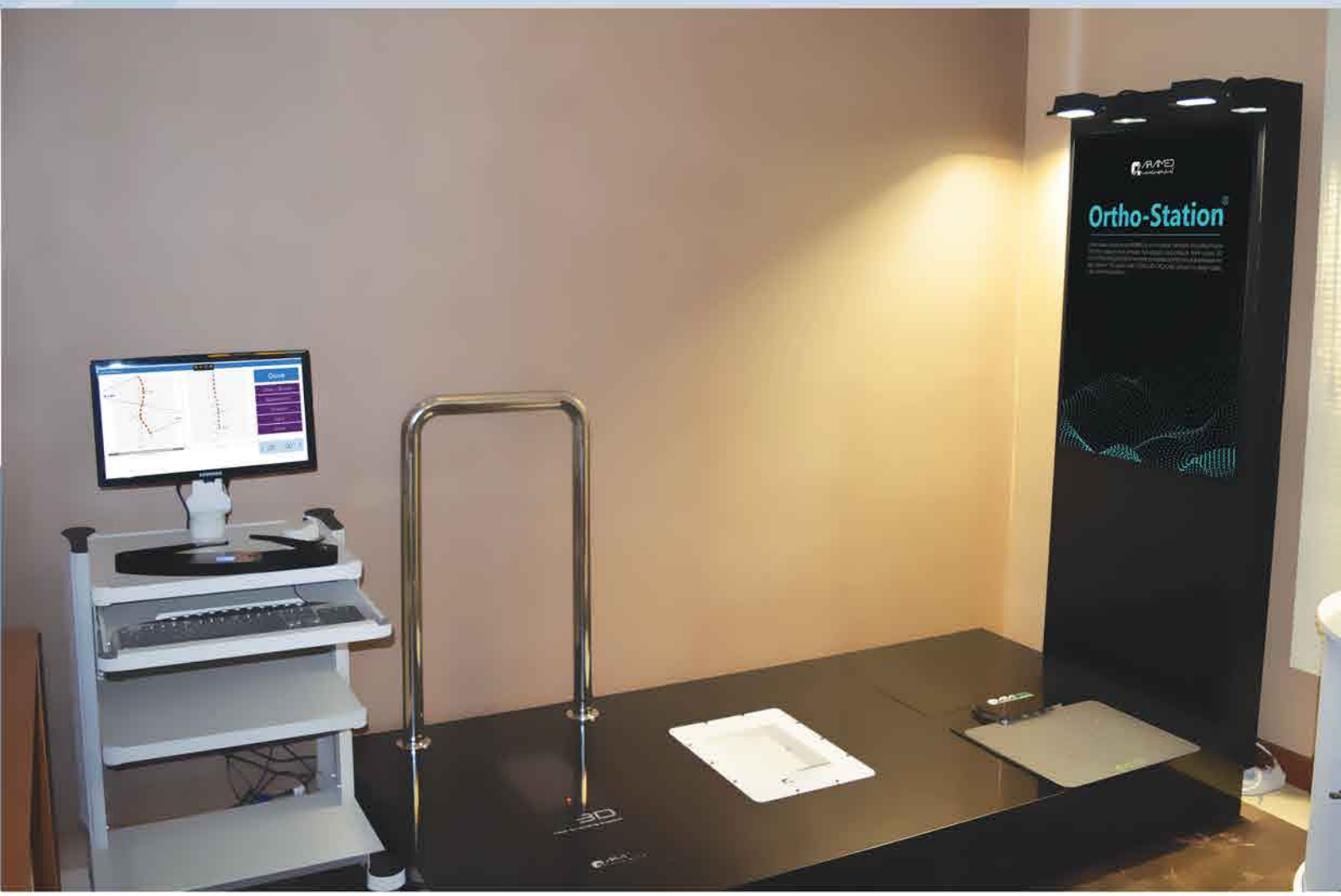
After

Ortho-Station

Complete Musculoskeletal Analysis Package

One Package for All Needs

Ortho-Station powered by ARAMED is an innovative hardware and software platform that captures foot pressure, foot posture, body posture, spine curves, 3D scans of foot and gait analysis to create a complete biomechanical examination for each person. The system uses CADSOL3D CAD/CAM software to design baltec fully customized orthotics.



Summary of Data:

The system is capable of running a series of diagnostic exams in a short time. All the tests are done through implementation of an exact reliable protocol:

- Foot pressure in stance mode
- Heel calcaneal varus/valgus
- Stabilometry graphes
- Plantar pressure distribution during gait
- CoP trajectories during gait
- Pelvis, shoulders and knees tilt angles (R/L)
- Pelvis anterior / posterior tilt
- Scoliosis angle
- Spine key parameters (Kyphosis, lordosis, etc)
- Compare results before/after LLD compensation
- 2D / 3D shape of feet in weight bearing mode
- CAD/CAM insole / sandal

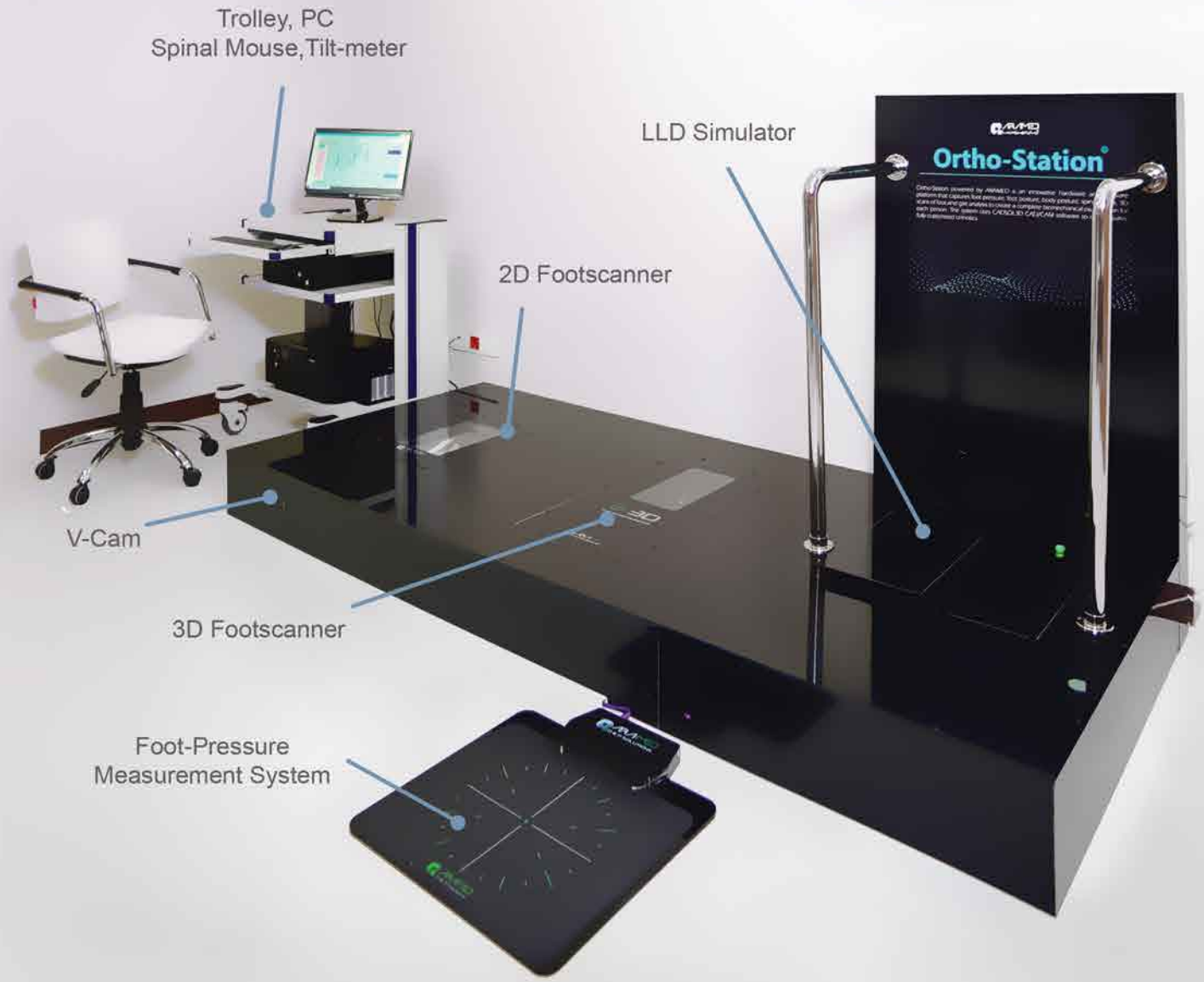
Ortho-Station

Musculoskeletal Analysis Package

Main Sub-systems:

The main Orth-Station components include:

1 Foot-pressure measuring system
2 V-CAM (varus / valgus capture)
3 LLD-Simulator
4 Tilt-meter
5 Spinal mouse
6 3D Footscanning system
7 2D Footscanning system
8 CADSOL3D software
8 PC, trolley, stage and accesories


Trolley, PC
Spinal Mouse,Tilt-meter
LLD Simulator
Ortho-Station
2D Footscanner
V-Cam
3D Footscanner
Foot-Pressure
Measurement System

1. Foot Pressure Survey in Static Mode

- Foot-pressure System

2. Varus/Valgus Survey with V-CAM

- V-CAM

3. Foot Pressure Survey in Dynamic Mode

- Foot-pressure System

aramed
HEALTH TECH STUDIO

4. Spine, Posture & LLD Survey

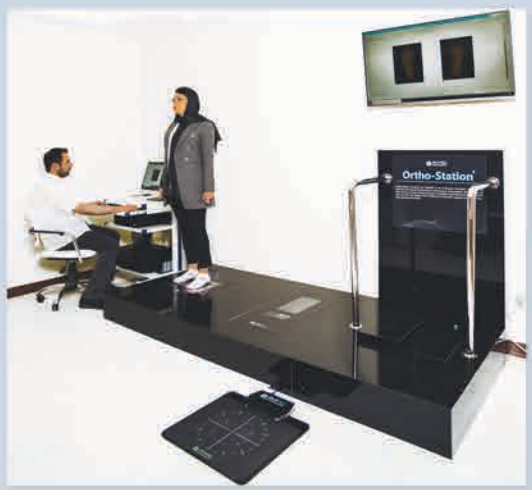
- LLD Simulator, Spinal Mouse, Tilt-meter

5. Structural Analysis of Feet

- 3D Footscanner

6. Structural Analysis of Feet

- 2D Footscanner



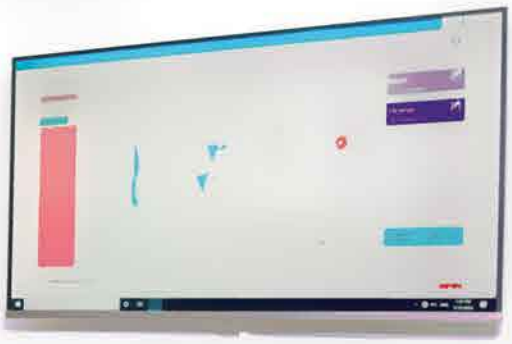
Posture-Station

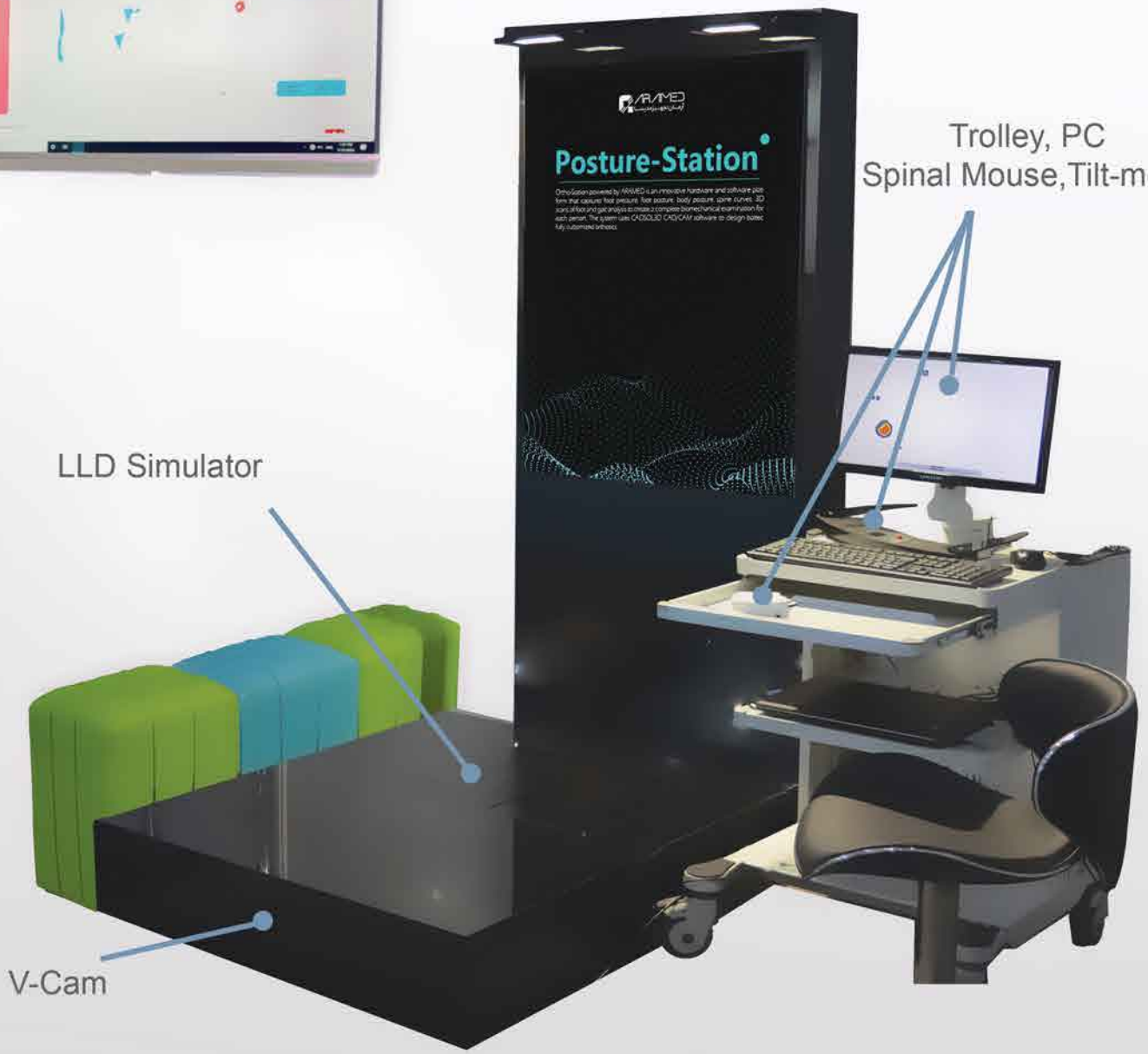
Spine and Posture Analysis Package

Main Sub-systems:

The main Orth-Station components include:

1 V-CAM (varus / valgus capture)
2 LLD-Simulator
3 Tilt-meter
4 Spinal mouse
5 PC, trolley, stage and accesories




Posture-Station
Trolley, PC
Spinal Mouse,Tilt-meter
LLD Simulator
V-Cam

aramed
HEALTH TECH STUDIO

ARAMED PRODUCTS 2021

Head office:
No. 10, Shirin Alley, Moghaddas Ardabili St.,
Zaferanieh, Tehran, Iran
Wrokshop:
Sh. Ehsani Rad St., Enqelab St., Parsa Sq.,
Ahmadabad Mostoufi Rd., Azadegan Highway,
Tehran, Iran
Tel: 0098-21-42167000
Fax: 0098-21-42167001

You have always access to Aramed show-room located in our head office,
do not hesitate to call us to arrange a meeting.

0098-21-42167000 INFO@ARAMEDHEALTH.COM WWW.ARAMEDHEALTH.COM