

BIORUN

RUNNING ANALYSIS SYSTEM



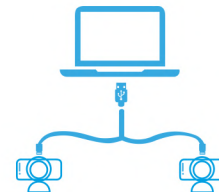
✓ Portable



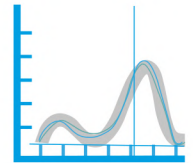
✓ Accurate



✓ Inexpensive



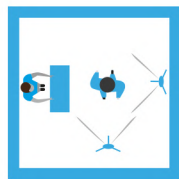
✓ Easy to install



✓ Reference Values



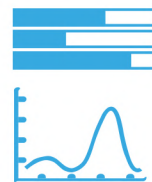
✓ Does not require installation works



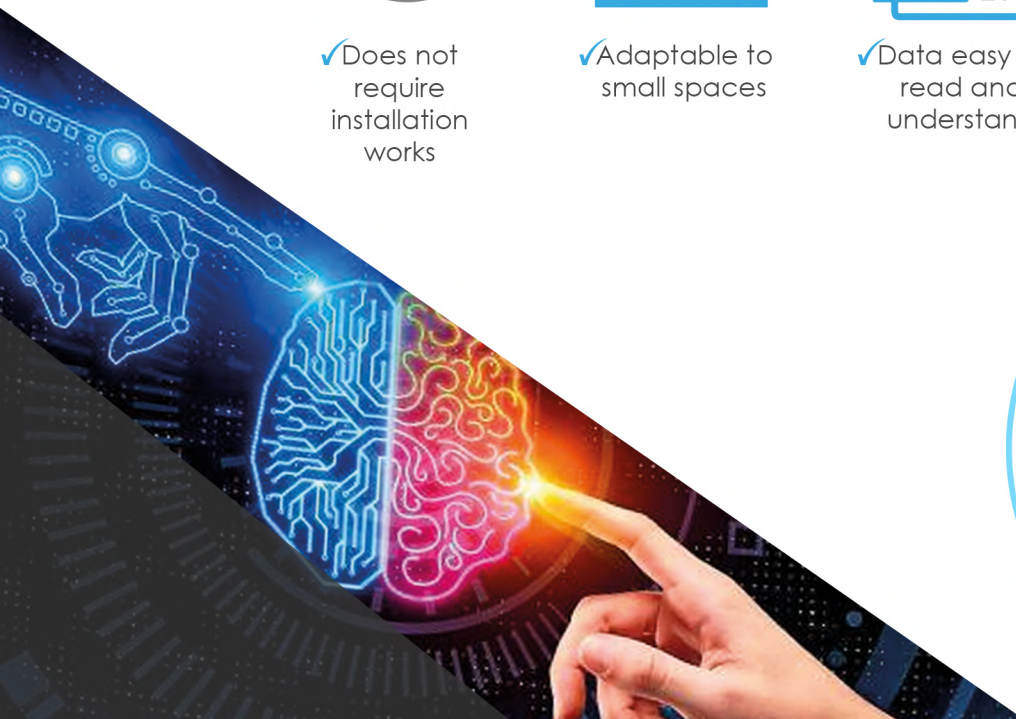
✓ Adaptable to small spaces



✓ Data easy to read and understand



✓ Intuitive graphic representation



WHAT IS BIORUN?

BIORUN is a Biomechanics Laboratory for athletics, based on **Artificial Intelligence** with **neural networks**, which calculates the kinematics of the runner, both on the track and on the street, without using markers. It belongs to the **BIOLAB** family that has other modules such as Gait (**BIOGAIT**) Posture (**BIOPOSTURE**), Running (**BIORUN**) and free measurements (**BIOFREE**) and Motion Capture (**BIOTRACK**).

CONVENTIONAL TECHNOLOGY



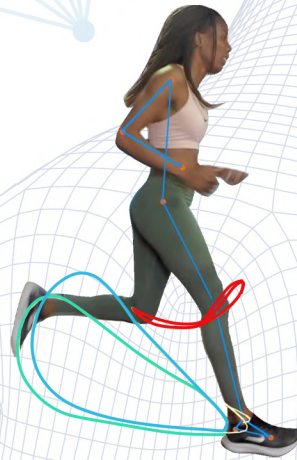
Traditionally, gait has been measured with:

1. low resolution home videos, in a single plane and with little precision.
2. Very expensive reflective marker technology, requiring large spaces, specialized technicians to operate it and that, no matter how accurate it is, the precision is subject to the person who places the markers.

HOW DOES BIORUN WORK?

Through an ingenious **Artificial Intelligence** algorithm, the use of **Neural Networks**, and more than 18 years of experience in understanding the user's needs, we have created a system that allows us to recognize the human body in motion, in small spaces, indoors and outdoors, and calculate its joint centers and consequently build customized gait reports, also dubbed digital video, making the evaluator's work much easier, intuitive and flexible compared to conventional Biomechanics Laboratories.

BIORUN



Markerless Technology

The joint centers are located by means of artificial intelligence based on the runner's movement.



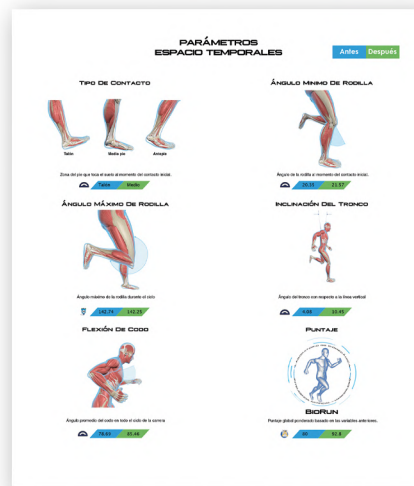
WHAT IS THE PURPOSE OF BIORUN?

To democratize the Running Analysis world, facilitating its access to any Coach, Biomechanic or Sports Institution. Running Analysis Systems have historically been difficult to obtain due to their high cost, large space requirements, difficulties in importation and installation, and few specialists who know how to operate the equipment.

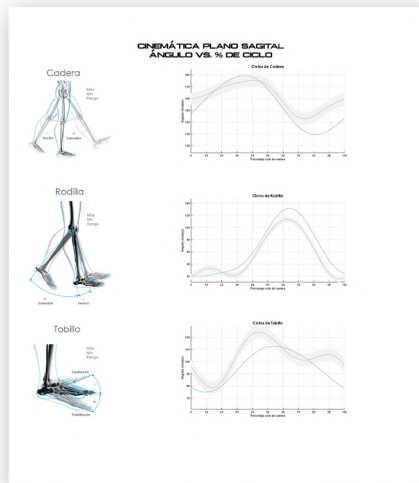
With **BIORUN** all these obstacles disappear and running analysis becomes a routine measurement in any band, track, street or park.



RUNNING ANALYSIS REPORT

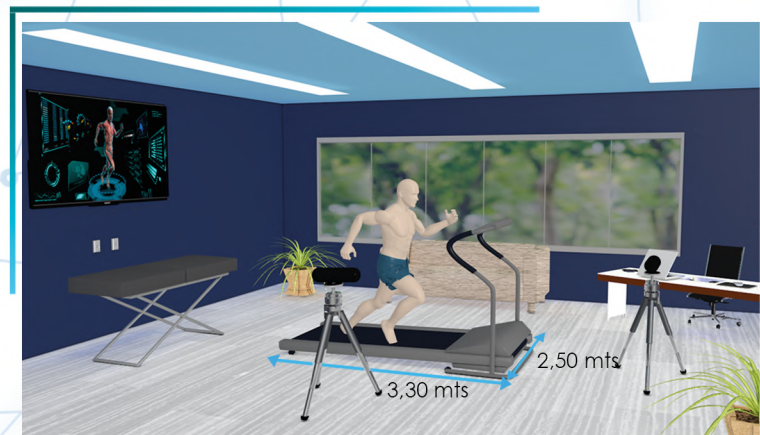
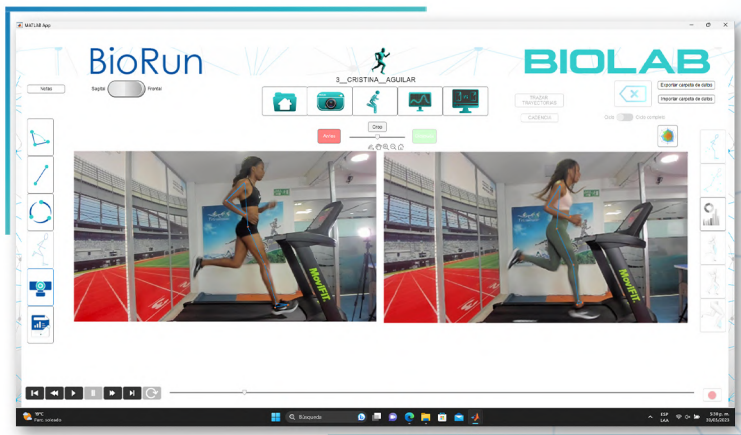


✓ Cadence, stride length, foot contact point, swing, trunk inclination and calculation of knee flexion at initial contact.



✓ Hip, Knee and Ankle ranges of motion.

✓ Chromatic polygon of gait indexes for test comparison and follow-up of the patient in different dates.



✓ Comparison of videos and photos before and after treatment.

✓ **BIORUN** requires a minimum space of 3.30 x 2.50 meters of free area and can be located in an consulting room, or rehabilitation area with no particular lighting or electricity requirements.