



SAM BalanceLab – ultra high precision pressure plate



Features

- 2D/3D display of pressure distributions
- Left/right foot and heel/toe balance analysis
- Replay and graphic report modules
- Center of pressure (COP) and weight transfer analysis
- Synchronized video recording
- Live feedback and training mode
- Launch monitor integration
- Automatic impact detection and recording

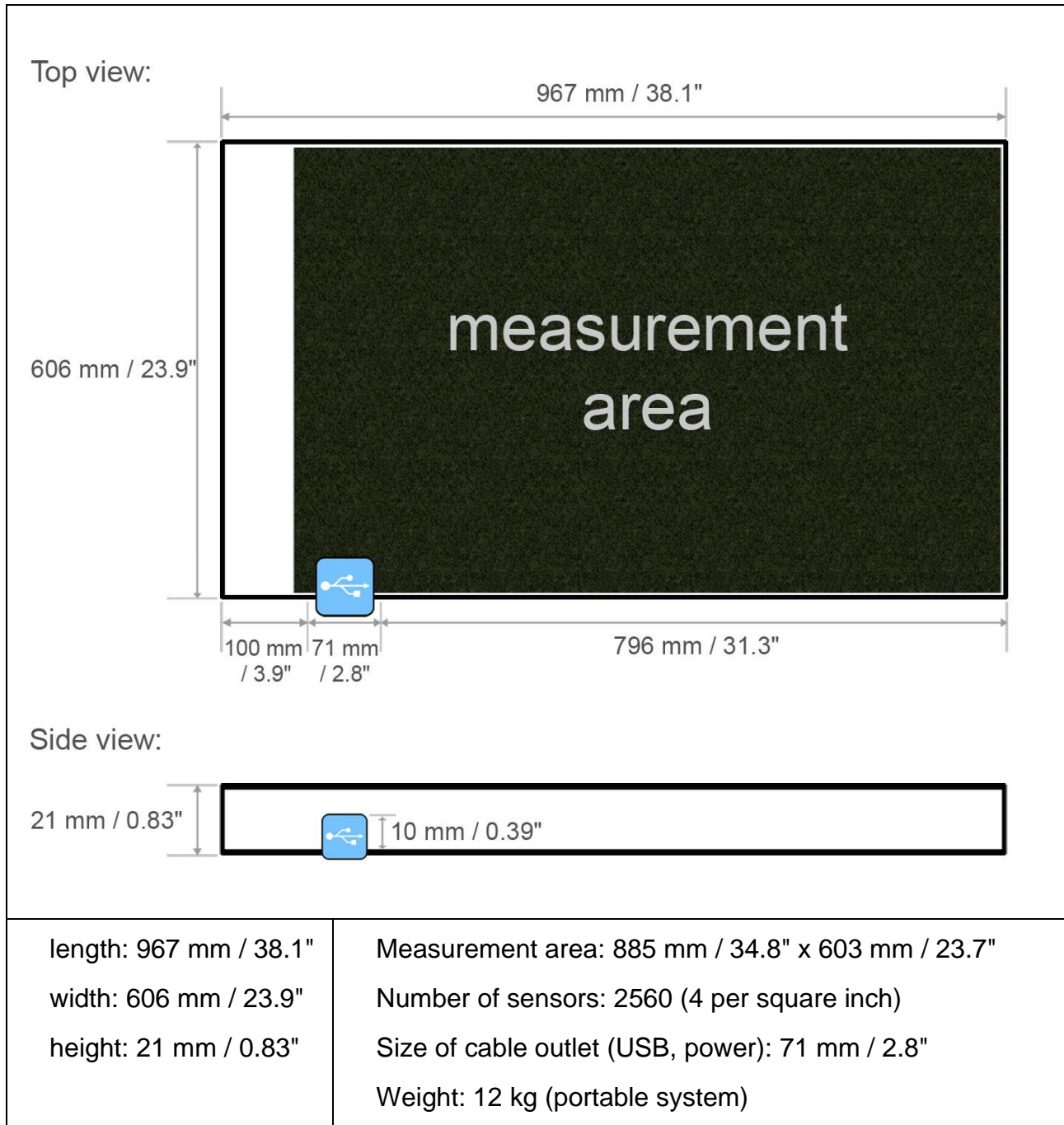
Technology

- Medical proven pressure plate technology
- Ultra high resolution with 2560 Sensors
- Reliable pressure data
- 100 Hz sampling frequency



Dimensions

Dimensions



Environment requirements

1. Floor requirements

The platform has to be placed on a totally even floor.

Floor material should not be too soft (like a very thick and soft carpet) – the platform should not visibly being bend down when somebody steps on it!

2. Usage outdoors or in wet environment

In general, the BalanceLab can be used outdoors or in a hitting bay if it is placed on a flat surface or ground.

If there is humidity on the surface of the plate or on the players shoes, the system should not be used for full swing as there is the danger of slipping and falling!

3. Computer system requirements

- Any windows PC or laptop with Windows 10 64 Bit.
- For operation with video, the PC should have enough power and disk space.
Minimum recommendation:
 - Quad Core CPU (i5/i7)
 - 8 GB RAM or better
 - SSD \geq 500 GB.
- USB2 or USB3 camera (see camera information on the last page)

4. Cable connections

There will be two cable connections needed to operate the SAM BalanceLab:

1. Power supply

The system is powered by a plug-in power supply unit. Accepted input voltages can vary between 110 and 230 Volts.

Cable length is 16 feet / 5 meters minimum.

Adapters for European and US power sockets are provided.



2. USB

Data connection between computer and system hardware is done via USB connection.

Length of the USB cable is: 16 feet / 5 meters minimum



All cables will be connected to a connection bay located on the bottom side of the force plate:



Camera compatibility

The SAM BalanceLab software supports two general types of cameras:

- a) USB webcams with Windows driver (or basically all cameras that come with a Windows DirectShow driver)
 - e.g. Logitech BRIO
 - many other Logitech webcams
 - Microsoft Cinema series

- b) USB Industry cameras from the following companies:
 - IDS Imaging



<https://en.ids-imaging.com/>

- Imaging Source



<https://www.theimagingsource.com/>

- FLIR



<https://www.flir.com/iis/machine-vision/>

Please contact us for any questions on cameras.