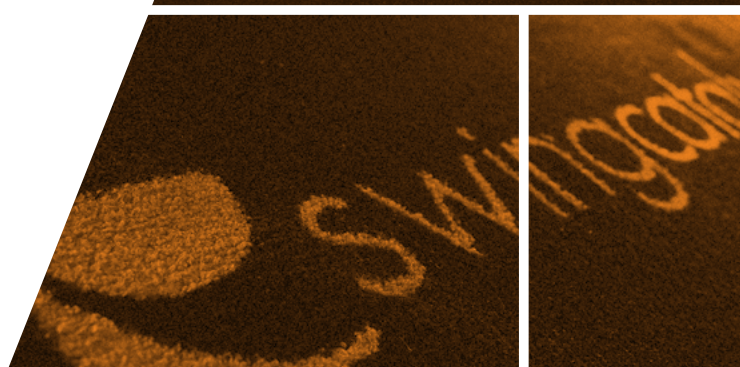


INSTALLATION GUIDE 3D MOTION PLATE

PART 1: STUDIO SETUP



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Installation Guide: 3D Motion Plate 2019

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INTRODUCTION

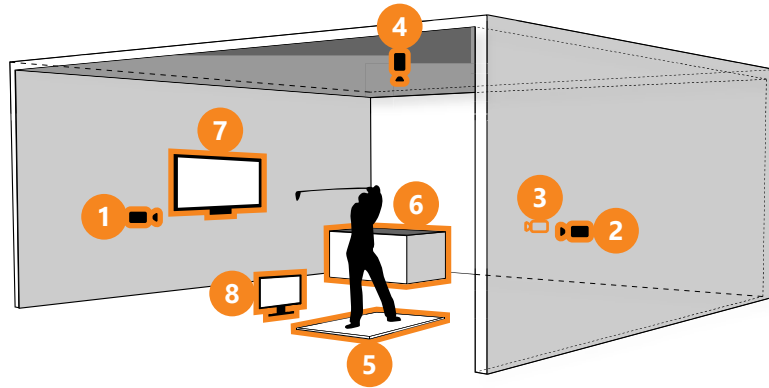
The Swing Catalyst team has over the years gained extensive experience from studio installations all around the world. This knowledge is now passed on to you as a valued Swing Catalyst customer.

This guide offers recommendations regarding space requirements, positioning of lighting, cameras and cabling, and some other thoughts that you should consider when setting up your Swing Catalyst Studio.

Detailed information on a specific topic may be found at:
www.swingcatalyst.com/help

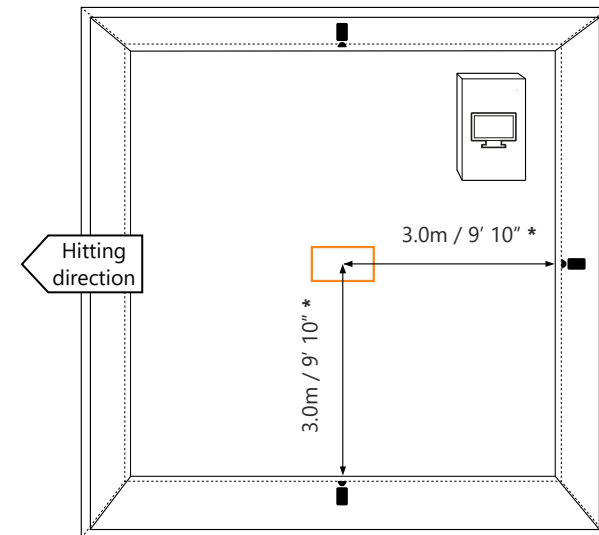
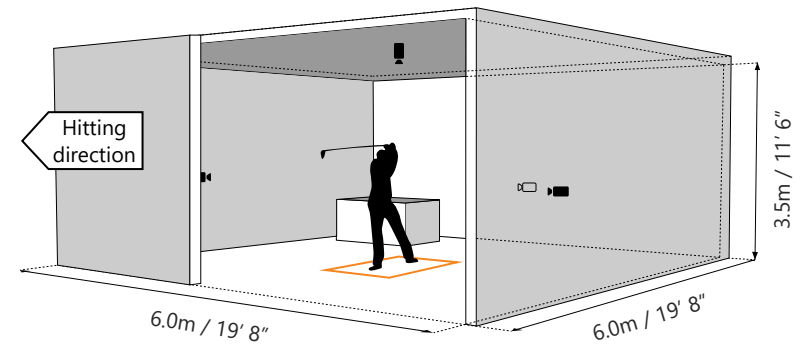


STUDIO COMPONENTS



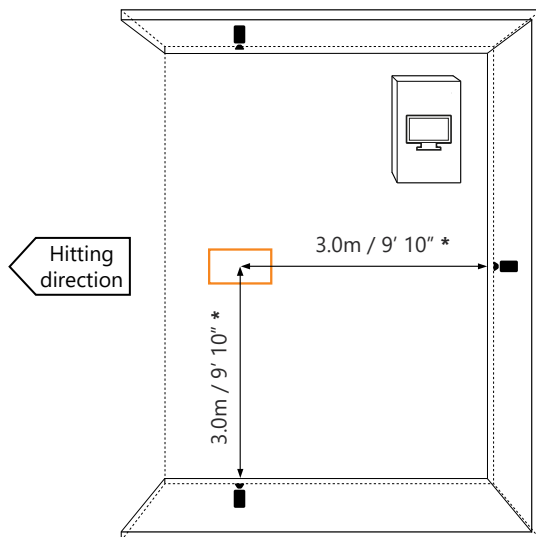
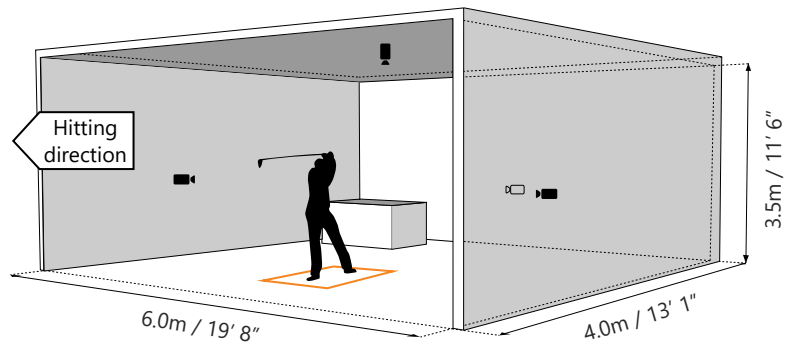
- 1 Face on camera left
- 2 Face on camera right
- 3 Down the line camera
- 4 Overhead camera
- 5 3D Motion Plate
- 6 PC table
- 7 Optional wall mounted flat screen
- 8 Optional student screen

DIMENSIONS - INDOOR STUDIO



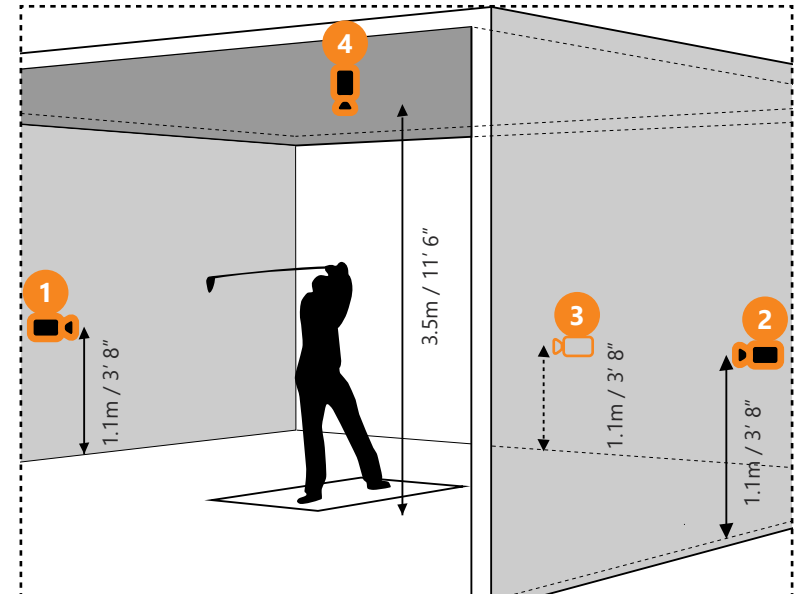
* These are the recommended distances. Please note that more space is required if you consider using a radar based launch monitor. If you have less space please contact us for other camera options.

DIMENSIONS - GARAGE BAY



* These are the recommended distances. Please note that more space is required if you consider using a radar based launch monitor. If you have less space please contact us for other camera options.

CAMERAS



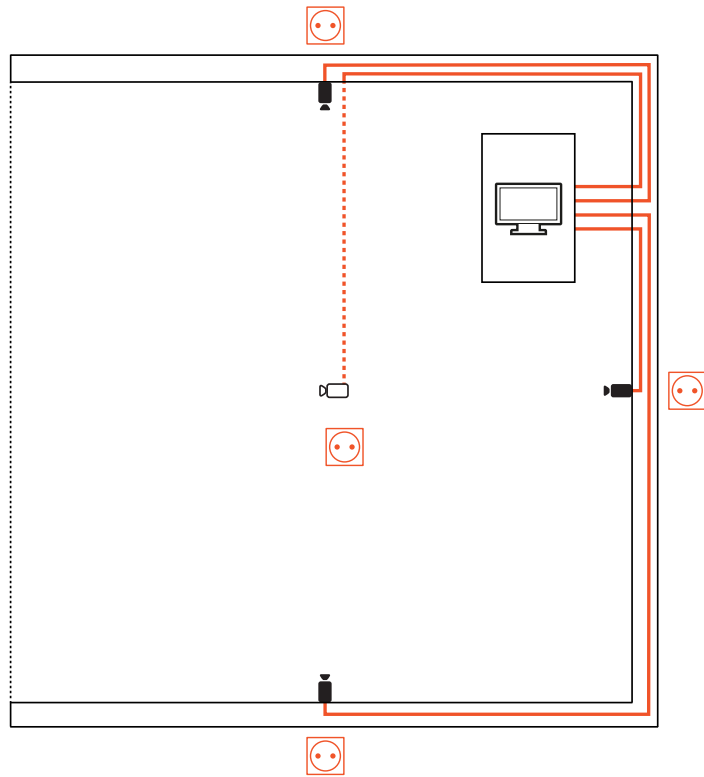
Camera height measured from floor to lens:

- 1 Face on camera left
- 2 Face on camera right
- 3 Down the line camera









Recommended minimum height from floor to lens:

- 4 Overhead camera

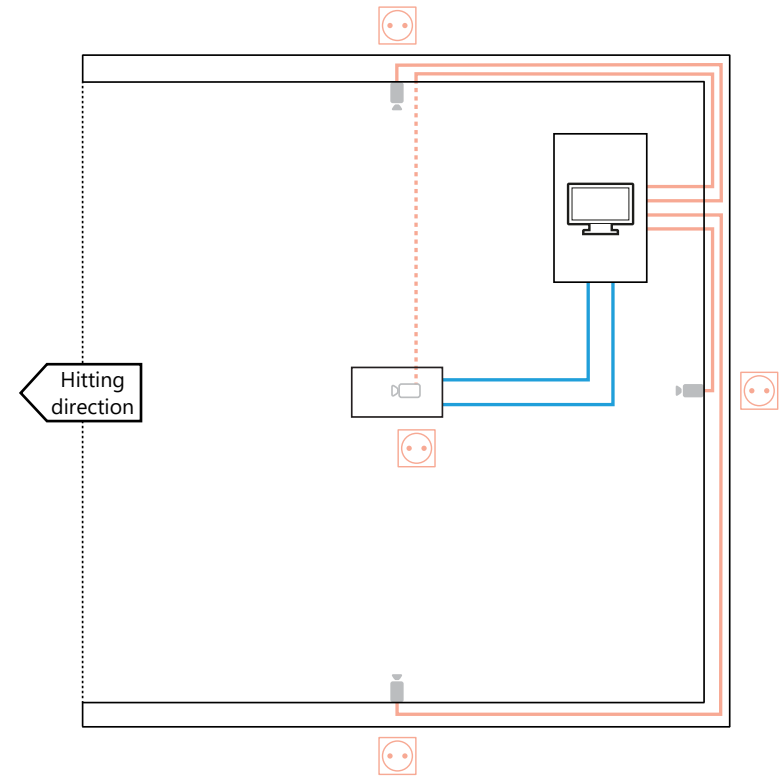
VIDEO SETUP







Video cables (depending on camera type):

-   Coaxial for CCTV
-   Ethernet for GigE Vision
-   USB for USB cameras
-   Power outlet, 110-220V AC

3D MOTION PLATE SETUP



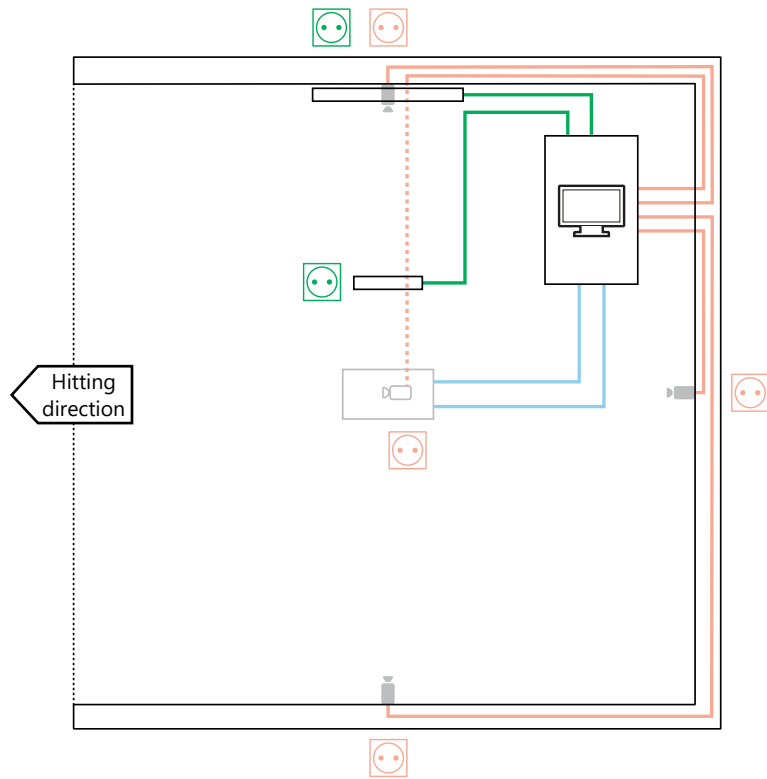
Sensor Plate cable:

-   USB for 3D Motion Plate
-   USB for Balance Plate







All electronics connected to the 3D Motion Plate must have ground. The power grid should have adequate grounding. We recommend using surge protectors to prevent damage to your electronics.

TV & FEEDBACK SCREEN SETUP



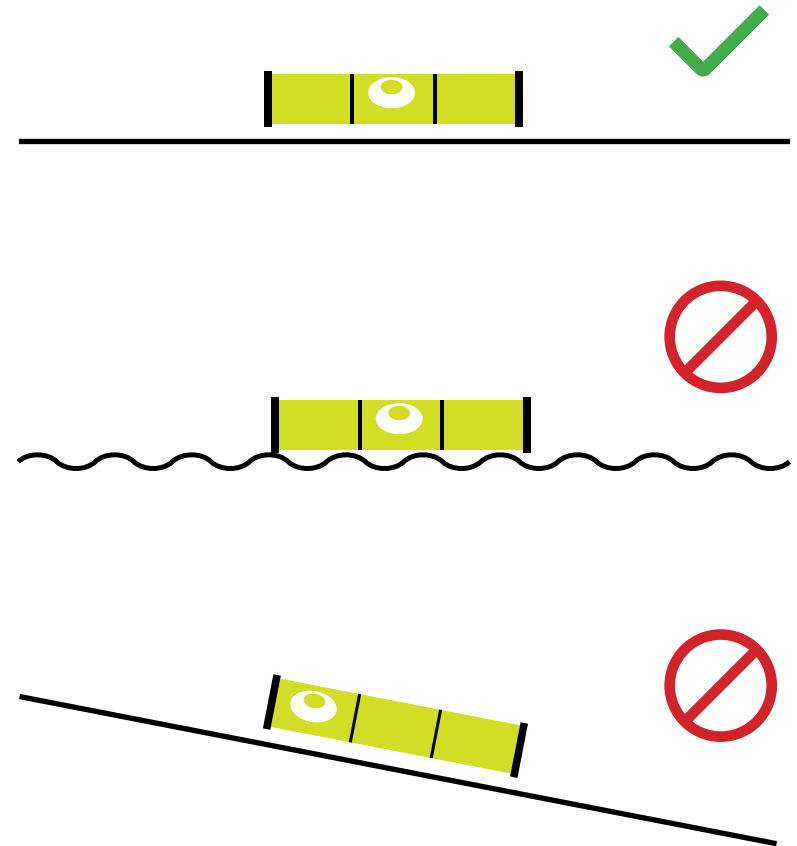
Screen cables:

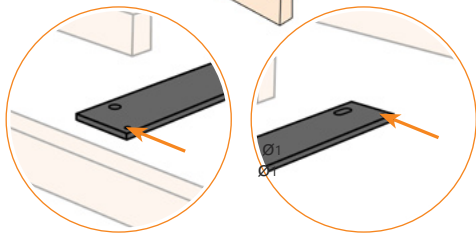
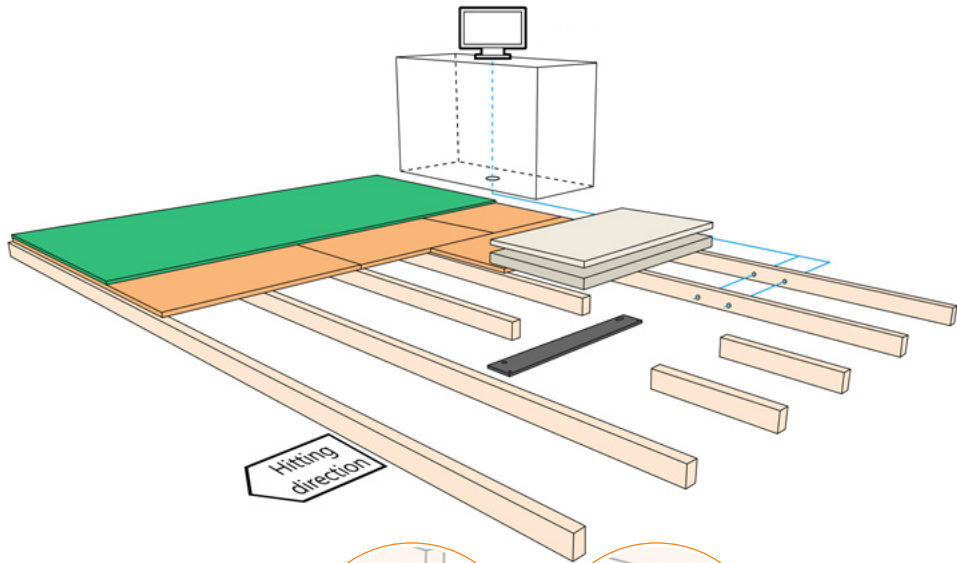
-   HDMI for flatscreen TV and feedback screen
-   Power outlet, 110-220V AC

Note: The setup for flatscreen TV and feedback screen is optional.

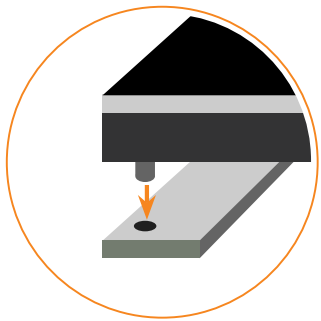
BUILDING FLOOR STRUCTURE

Place the 3D Motion Plate on a flat and level floor to ensure accurate data readings.



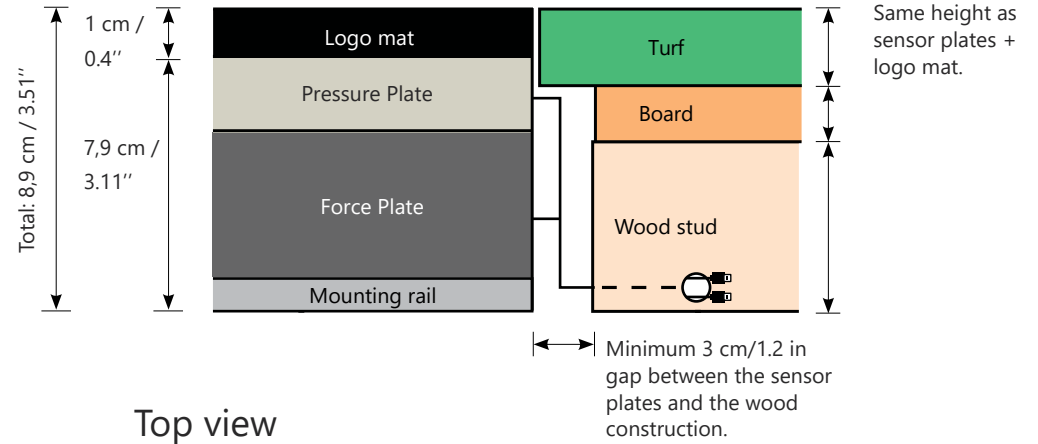


∅: Mounting holes. Use screws to fix mounting rail to the floor.

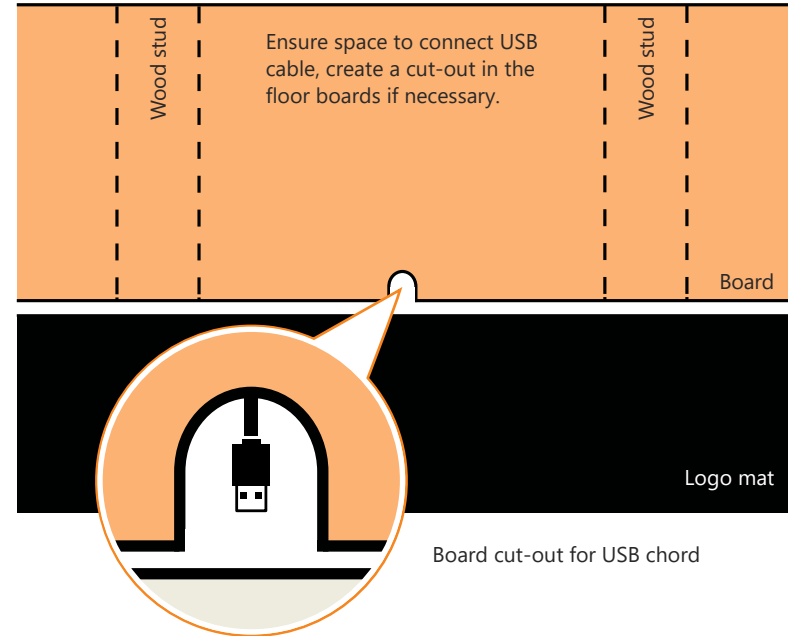


Insert two of the feet into the mounting rail.

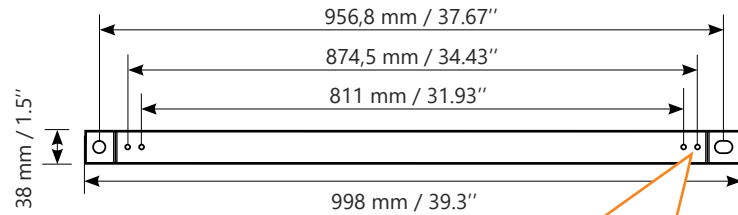
Side view



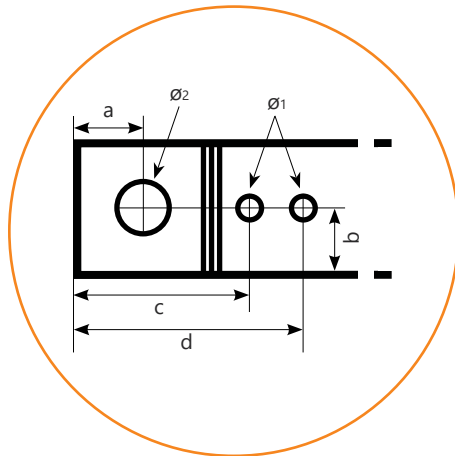
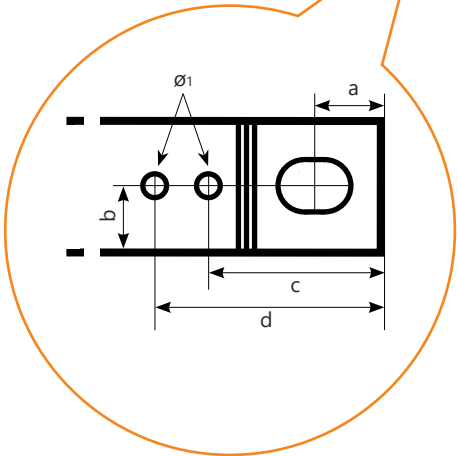
Top view



MOUNTING RAIL SPECS

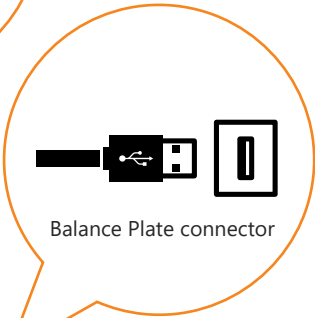
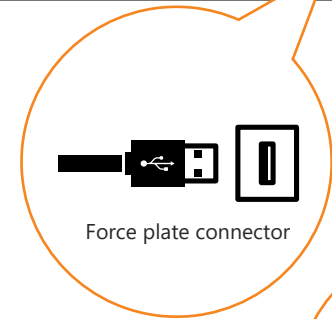
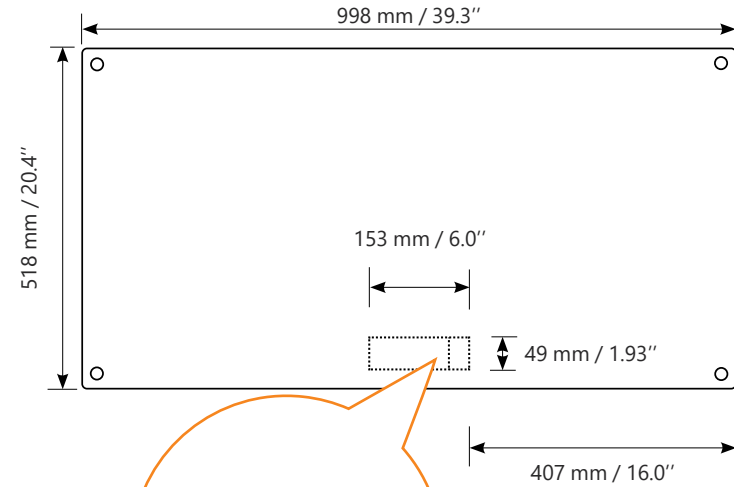


- a: 41,4 mm / 1.63"
- b: 19 mm / 0.75"
- c: 123,7 mm / 4.87"
- d: 145,8 mm / 5.74"
- ∅1: 7,62mm / 0.3"
- ∅2: 18,75mm / 0.738"

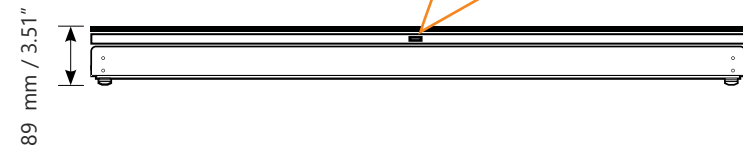


3D MOTION PLATE SPECS

Bottom view

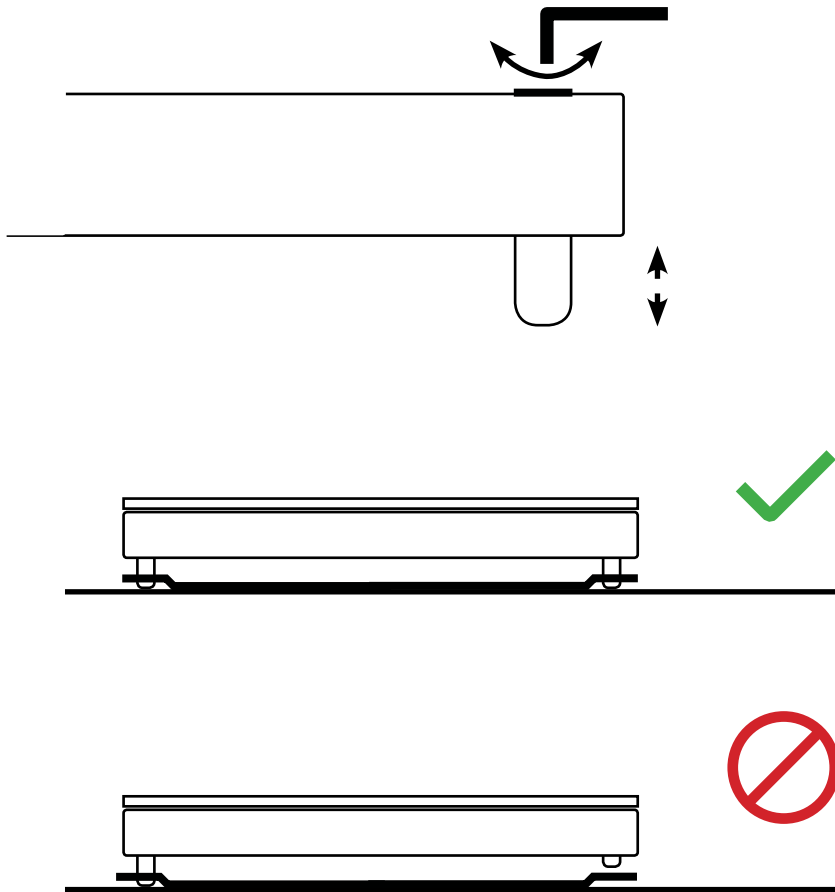


Side view



Feet on the floor

Important! To ensure accurate data readings the 3D Motion Plate must be level and have all 4 feet in contact with the floor. Make sure the plate is level before mounting the Balance Plate. It's important to account for the height of the Balance Plate when adjusting the Force Plate to make the install flush with the turf.

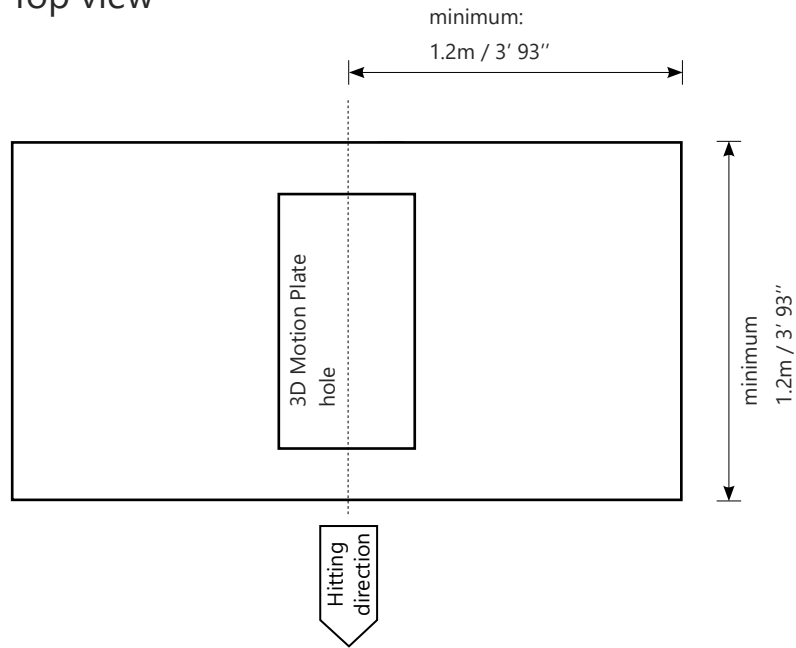


BUILDING PODIUM STRUCTURE

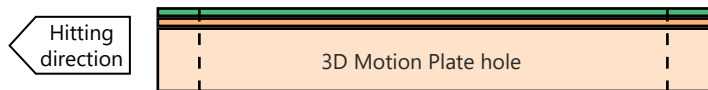
Follow construction details from the previous pages. Choose desired moldings for a good finish.



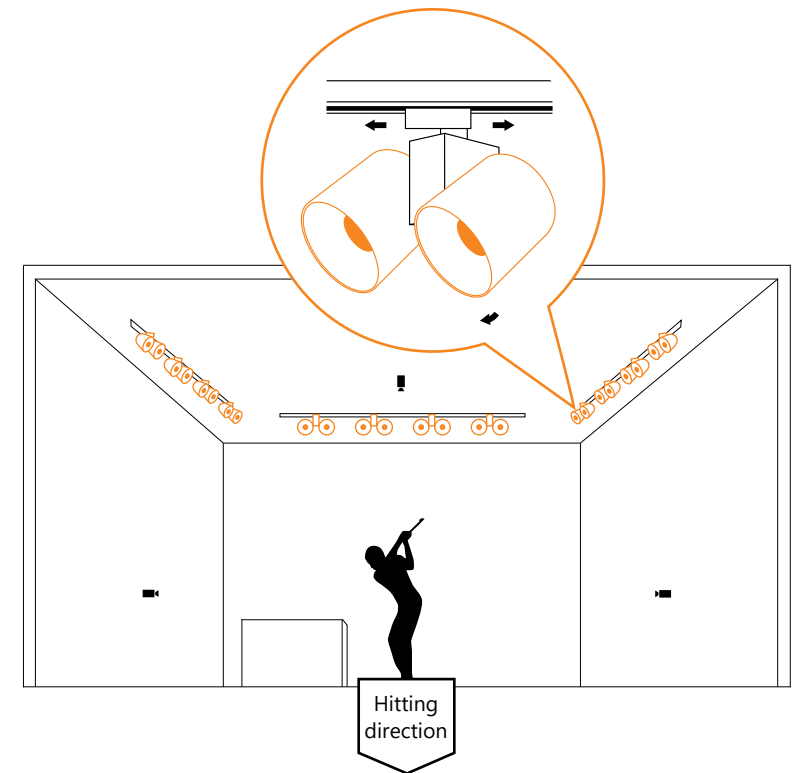
Top view



Side view



LED LIGHTING SETUP



Recommended lighting setup:

Lumen: 30,000 lumen

Beam angle: 45 degrees

Number of spot lights: 15-30

Recommended lux measurements:

Hip-height horizontally: 1300 lux

Floor below golfer: 2300 lux

Walls: 500 lux

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