INSTALLATiON INSTRUCTiONS

TRACKMAN iO

CONTENTS

![TRACKMAN iO]

GETTING STARTED

PACKAGE CONTENTS

1. Trackman iO box
2. Calibration board
3. Trackman iO with protective foil and mounting plate
4. Power cable (country specific)
5. Power adapter
6. Flashlight
7. 4 pcs M6 12 mm screws for VESA 100x100 mount (NOT included) plus 2 pcs spare screws
8. Tee
9. Tee marker
10. USB stick (contains safety and conformity guide, intallation instructions and software)
11. 3 pcs AAA Battery
12. Box contents and safety instructions
13. Ceiling bracket (attached to Trackman iO)

DEFINITIONS

LH: Left hand
RH: Right hand
Target point: A spot or line that indicates the preferred aiming direction
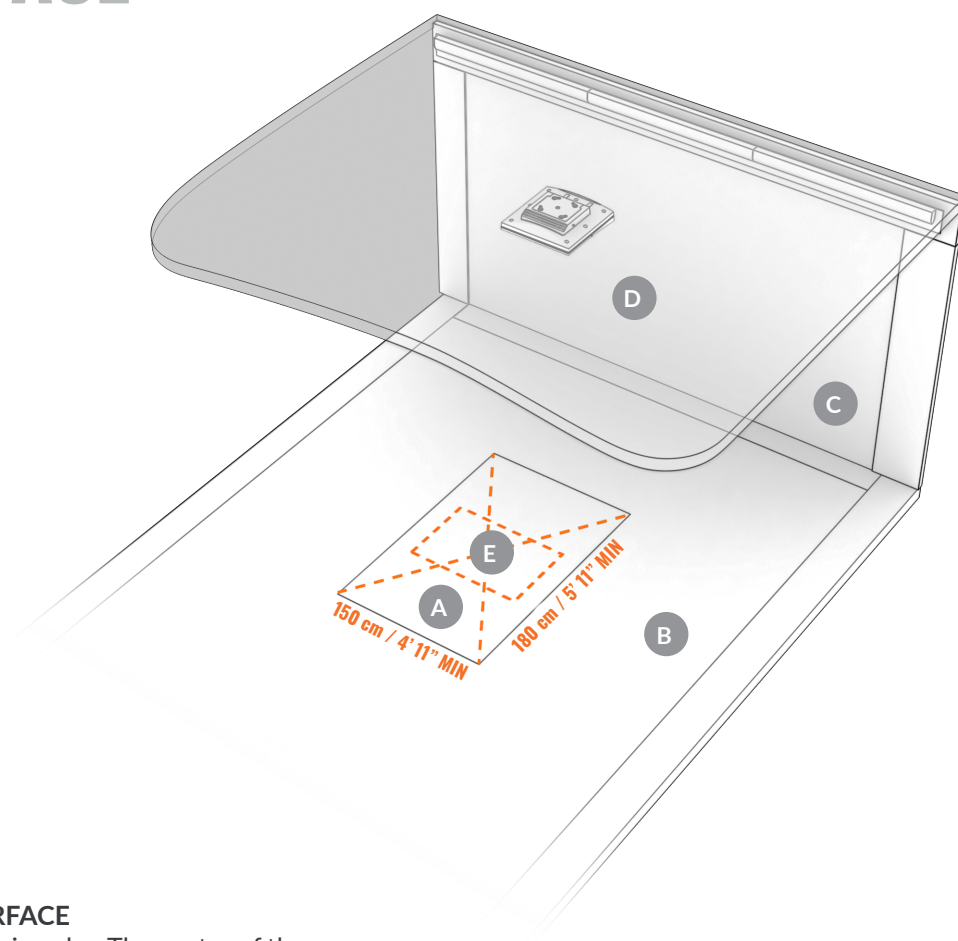**TPS:** Trackman Performance Studio (PC Software)

EQUIPMENT NEEDED (NOT INCLUDED):

- Ladder
- Pen or pencil
- Portable drill with ceiling surface-specific drill bits
- 4 pcs 4 mm x 30 mm ceiling surface-specific screws
- 4pcs 6mm x 35mm raw plugs (wall anchors)
- Blanket or towel
- Ethernet cable (minimum Cat6/shielded)
- 2 golf clubs or alignment sticks.
- Screwdriver (choose standard or Phillips based on the screws you are using)
- Bubble level

If you are not mounting your **Trackman iO** directly to the ceiling using the attached ceiling bracket, you will require additional equipment:

- VESA mount (100x100, with rotary joint and adjustable drop pole/bracket)
- Plumb line (or laser level, or heavy-duty tape measure)

TRACKMAN iO

THE SPACE

150 cm / 4' 11" MIN

180 cm / 5' 11" MIN

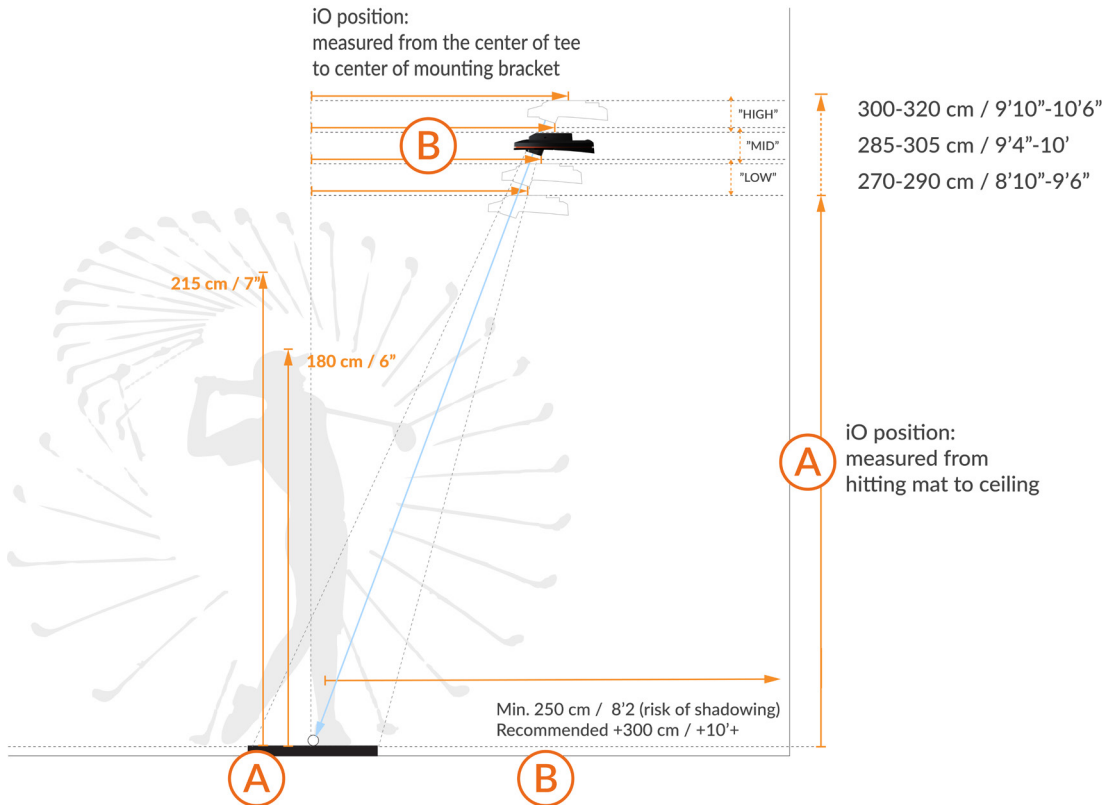**A   HITTING SURFACE**
Must be green in color. The center of the
HITTING SURFACE must also be the center of
the **TEE AREA**

B   FLOOR SURFACE

C   HITTING SCREEN

D   CEILING SURFACE

E   TEE AREA 60 x 40cm / 2´ x 16"
You will be able to hit shots from this **TEE AREA**
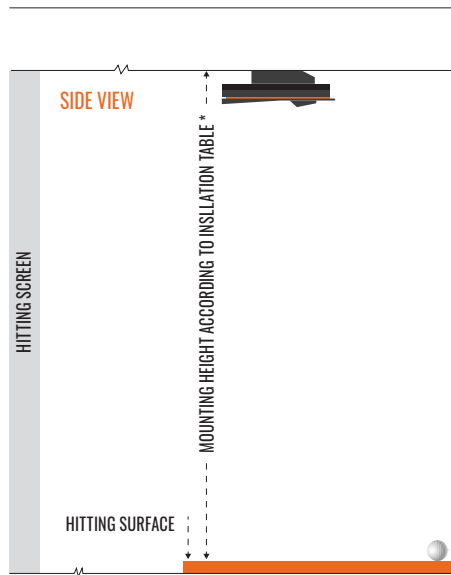the center of which is indicated by the **tee marker**

NET HITTING SCREEN

RH

LH

TEE AREA

TEE MARKER

INSTALLATION TABLE

iO position:
measured from the center of tee
to center of mounting bracket

"HIGH" — 300-320 cm / 9'10"-10'6"
"MID" — 285-305 cm / 9'4"-10'
"LOW" — 270-290 cm / 8'10"-9'6"

215 cm / 7"

180 cm / 6"

iO position:
measured from
hitting mat to ceiling

Min. 250 cm / 8'2 (risk of shadowing)
Recommended +300 cm / +10'+

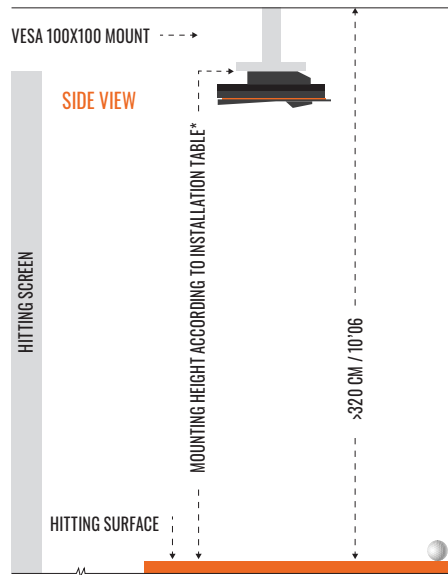|	Mounting Height cm ft/in		Tee to iO cm ft/in		Comments
"HIGH"	320	10'6"	110	3'7"	Max
	315	10'4"	108.5	3'7"	
	310	10'2"	107	3'6"	Reccomended
	305	10"	105	3'5"	
	300	9'10"	103	3'5"	Min
"MID"	305	10"	105	3'5"	Max
	300	9'10"	103	3'5"	
	295	9'8"	102	3'4"	Reccomended
	290	9'6"	100	3'3"	
	285	9'4"	98.5	3'3"	Min
"LOW"	290	9'6"	100	3'3"	Max
	285	9'4"	98.5	3'3"	
	280	9'2"	96	3'2"	Reccomended
	275	9"	94	3'1"	
	270	8'10"	92	3'0"	Min

MOUNTING TYPES

A.   Direct ceiling mount
   • See section for **Mounting Type A installation process**
B.   VESA mount (100x100, with rotary joint and adjustable pole/bracket)
   • See section for **Mounting Type B installation process**

MOUNTING TYPE A

SIDE VIEW

HITTING SCREEN

MOUNTING HEIGHT ACCORDING TO INSLLATION TABLE *

HITTING SURFACE

MOUNTING TYPE B

VESA 100X100 MOUNT

SIDE VIEW

HITTING SCREEN

MOUNTING HEIGHT ACCORDING TO INSTALLATION TABLE*

>320 CM / 10'06

HITTING SURFACE

To ensure a functional system, select a mounting type for installing your Trackman iO:

• It is recommended to use **Mounting Type A** (direct ceiling mount) if allowed by the ceiling height of the space. Check installation table* for recommended install height for device **"Low", "Mid"** and **"High"**

• When the distance between the **HITTING SURFACE** and **CEILING SURFACE** is greater than 320 cm / 10'6", **use Mounting Type B** VESA mount with adjustable pole/bracket and set to the recommended mounting height of the device as of the installation table*.

| IMPORTANT | Whichever mounting type you choose, both the CEILING SURFACE and the floor must be level. Installing your Trackman iO on a CEILING SURFACE that is not level will affect its performance. |

Installation table can be found on page 5

TRACKMAN iO

SETUP TYPES

A.   Projector and **HITTING SCREEN** setup
   • Image projected on **HITTING SCREEN** in front of player.

B.   PC screen and net setup
   • Image shown on separate monitor away from net.

Both mounting types can be used for either setup type A or B.

INSTALLATION MOUNTING SETUP

PREREQUISITES

IMPORTANT	Keep the protective foil on your **Trackman iO** and do not insert the **power cable** until instructed.

TRACKMAN iO

MOUNTING TYPE A
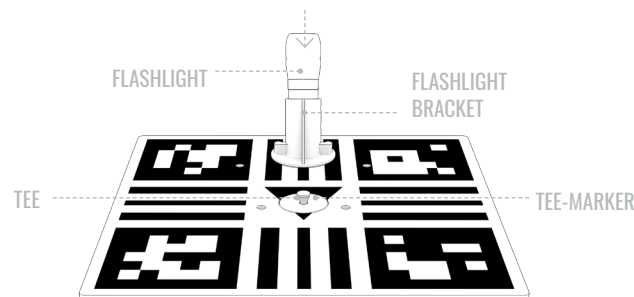
INSTALLATION PROCESS

1. Place the **tee marker** at the preferred tee/ball position on the **HITTING SURFACE** at least 250cm/8'2" from the **HITTING SCREEN**/net. If your **HITTING SURFACE** allows, use the provided **tee** to fix the position of the **tee marker**.

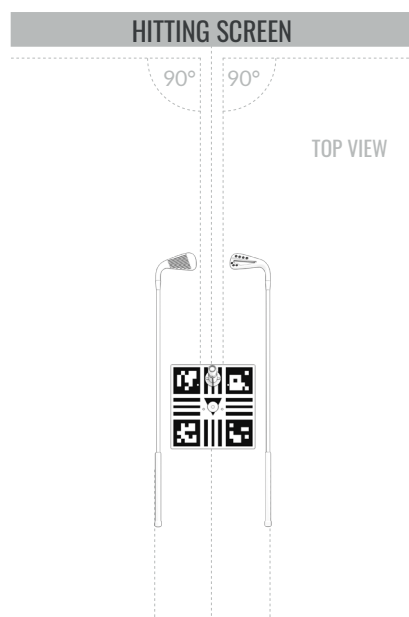 | **IMPORTANT** | Do not remove the **tee marker** until the entire installation process is complete. |
    |---|---|

2. Install the **3 AAA batteries** in the **flashlight** and turn it on.

IMPORTANT	Do not look directly into the light cone.

3. Push the rear end of the **flashlight** into the **flashlight bracket** of the **calibration board** until it stops.

FLASHLIGHT ———— ———— FLASHLIGHT BRACKET
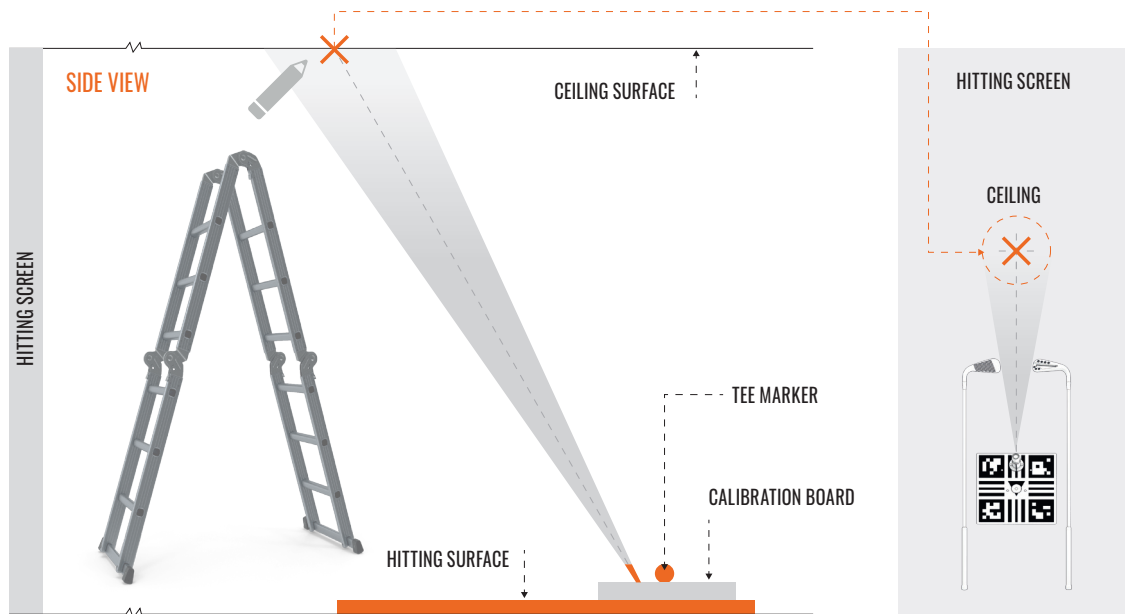
TEE ———— ———— TEE-MARKER

4. Set the **calibration board** on the **HITTING SURFACE** with the **tee marker** you placed in Step 1 in the center.
    The side with the **flashlight** should be facing the **HITTING SCREEN**/net.
    Using two **golf clubs** or **alignment sticks** on each side of the **calibration board**, align the **calibration board** with the preferred target point on the **HITTING SCREEN**/net.
    Typically, the target point is the vertical center of the **HITTING SCREEN**/net.

HITTING SCREEN

90° 90°

TOP VIEW

The flashlight beam now indicates where your **Trackman iO** should be positioned at your **CEILING SURFACE**.
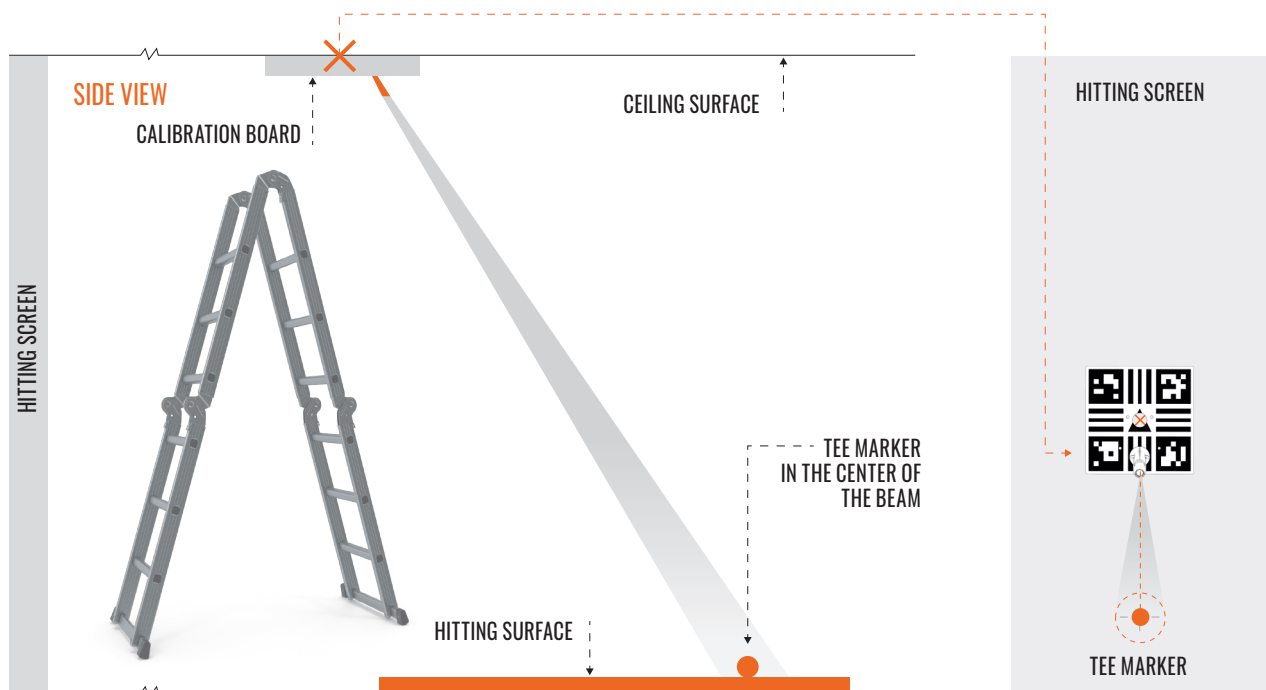
5. Climb the **ladder** and use the **pen/pencil** to draw an "X" on the **CEILING SURFACE** in the center of the flashlight beam.

IMPORTANT	Have a person assist by supporting the ladder for safety.

SIDE VIEW

HITTING SCREEN

CEILING SURFACE

TEE MARKER

CALIBRATION BOARD

HITTING SURFACE

HITTING SCREEN

CEILING

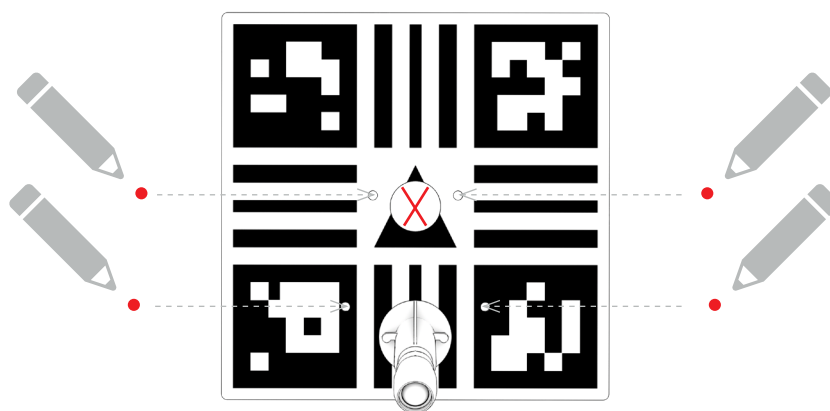**6.** Now pick up the **calibration board/flashlight** from the floor and flip it so that the pattern is facing the floor. Hold the **calibration board** against the **CEILING SURFACE** so that the X you drew in Step 5 is positioned in the center hole. Make sure the **calibration board** is parallel to the **HITTING SCREEN**/net. The **tee marker** you placed in Step 1 should be in the center of the flashlight beam.
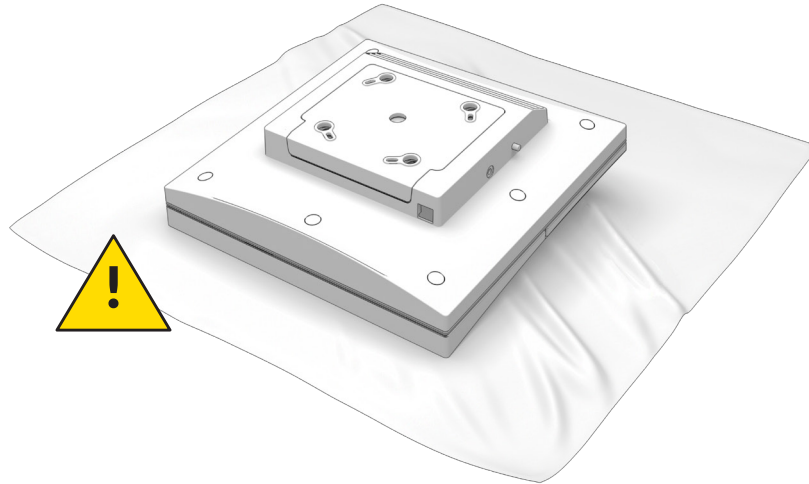
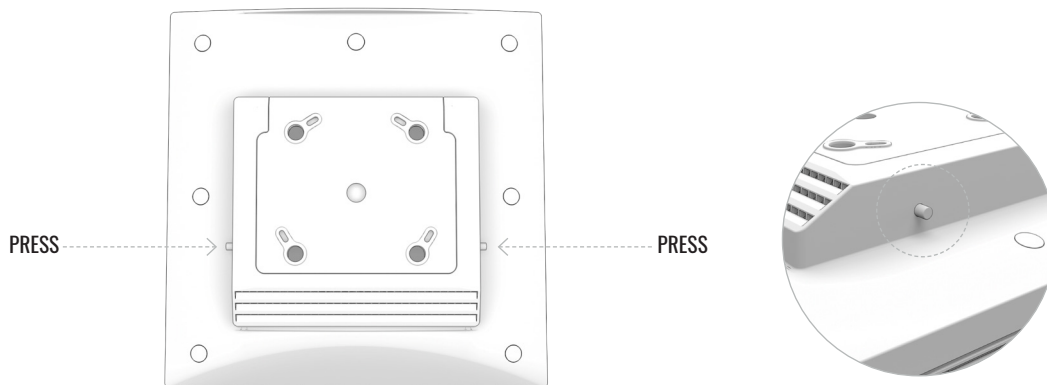| **IMPORTANT**	Do not remove the **tee marker** until instructed.

7. Use the **pen/pencil** to mark the four mounting holes in the **calibration board** on the **CEILING SURFACE.**
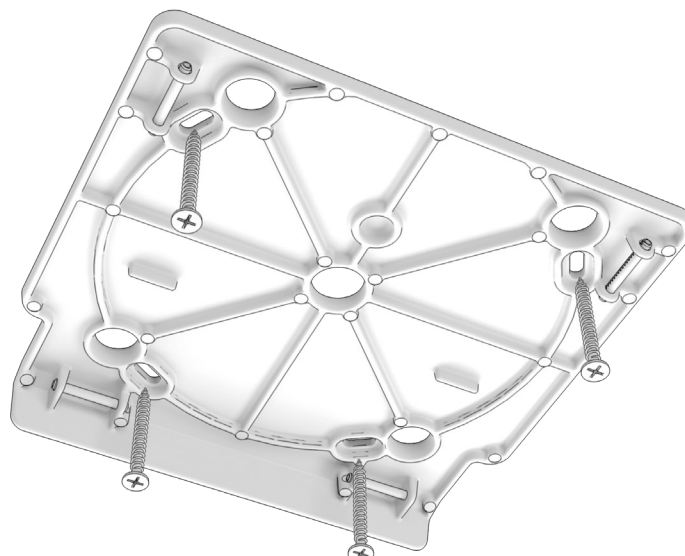

8   Remove the **calibration board** from the **CEILING SURFACE** and turn off the **flashlight**.

9. Choose appropriate **drill bit** size for your **rawplugs/wall anchors** and drill four holes. (Eg. concrete ceiling)

10. Insert a raw plug/wall anchor in each of the drilled holes.

11. Gently place your **Trackman iO** onto a blanket or towel with the back of the device facing up.
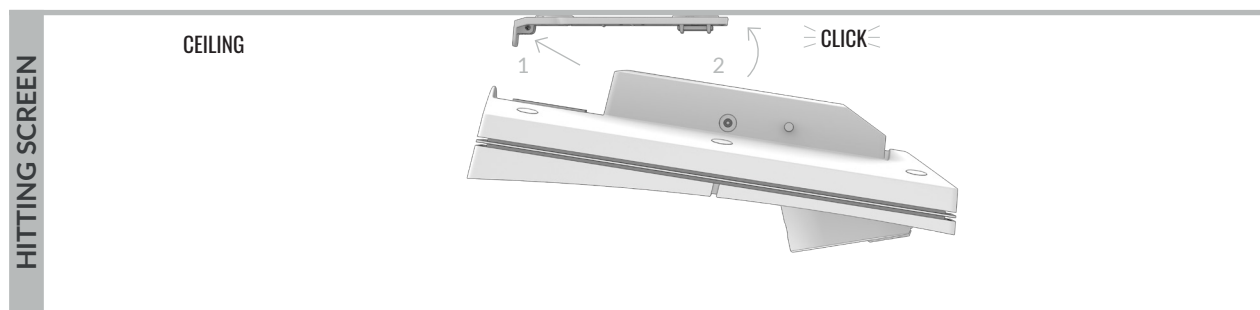
IMPORTANT Do not remove the protective foil on the front cover until instructed.

PRESS → ← PRESS

12. Remove the **ceiling bracket** from the back of your **Trackman iO** by simultaneously pressing the two release buttons/pins on each side of the bracket housing.

13. Mount the **ceiling bracket** on the **CEILING SURFACE** using four **screws** and the pill-shaped slots. Before tightening the **screws**, adjust the **bracket** as needed to make sure it is mounted parallel to the **HITTING SCREEN**/net. Do not overtighten.

TRACKMAN iO

14. Using both hands, mount your **Trackman iO** by lifting it at an angle toward the **ceiling bracket** and pushing it lightly in place until you hear a click. Do not let go of the unit until you are sure the lock has engaged.

| IMPORTANT | Hold the **Trackman iO** carefully in both hands when mounting it in the bracket. |

15. Now it's time to complete the installation. Skip ahead to the **"Powering up your Trackman iO"** section.
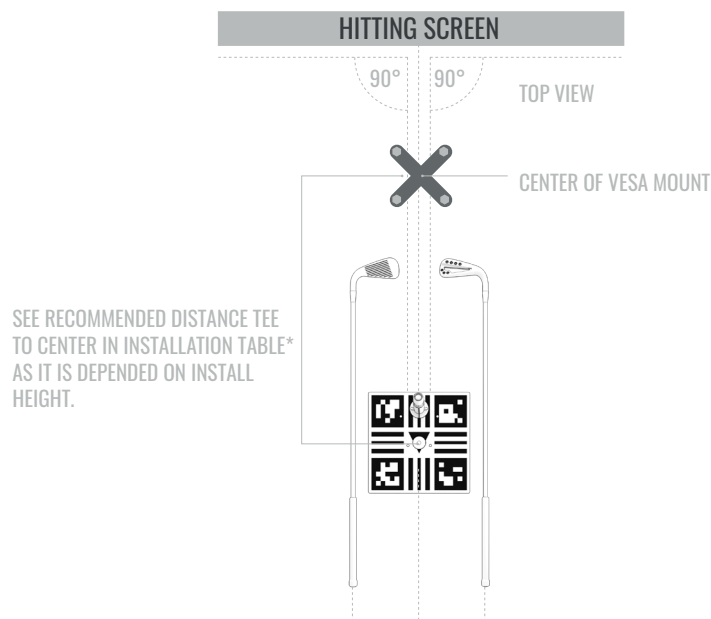
MOUNTING TYPE B

INSTALLATION PROCESS

BEFORE YOU BEGIN: The following steps will show you how to use your preferred **tee marker** location to determine the proper position of the **VESA mount (100x100)** on the **CEILING SURFACE**. For best results, the adjustable pole/bracket on the **VESA mount** should be set to the recommended mounting height of the installation table*. Please read these instructions carefully and double-check your measurements to ensure they are within the guidelines.

RECOMMENDED: This process is best performed by two people.

1. Place the **tee marker** at the preferred tee/ball position on the **HITTING SURFACE** at least 250cm/8'2" from the **HITTING SCREEN**/net. If your **HITTING SURFACE** allows, use a tee to fix the position of the **tee marker**.

IMPORTANT	Do not remove the **tee marker** until the entire installation process is complete.

2. Set the c**alibration board** on the **HITTING SURFACE** with the tee marker in the center. Using two **golf clubs** or **alignment sticks** on each side of the **calibration board**, align the **calibration board** with the preferred target point on the **HITTING SCREEN**/net. Typically, the target point is the vertical center of the **HITTING SCREEN**/net.

3. From the center of the tee marker, measure the recommended distance as of the installation table depending on the device type "Low", "Mid" , "High", in the direction of the target point on the **HITTING SCREEN**/net. Mark this spot with an X. This spot represents the center of the **VESA mount** that will be installed on the ceiling directly above.
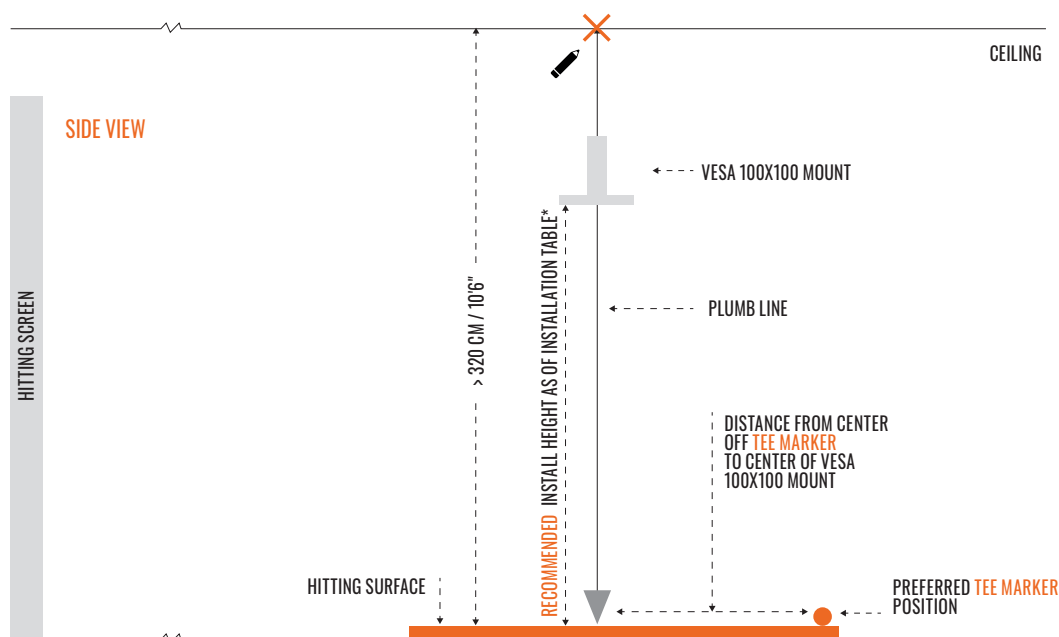

HITTING SCREEN

90° 90°

TOP VIEW

CENTER OF VESA MOUNT

SEE RECOMMENDED DISTANCE TEE TO CENTER IN INSTALLATION TABLE* AS IT IS DEPENDED ON INSTALL HEIGHT.

IMPORTANT	Have a person assist by supporting the ladder for safety.

4. Now climb the ladder until you can comfortably and safely reach the **CEILING SURFACE**. Use a **plumb line** (see NOTE below) extending between the **CEILING SURFACE** and the **HITTING SURFACE** to identify the spot on the **CEILING SURFACE** directly above the X you marked in Step 3. Mark this spot on the **CEILING SURFACE** with an X.

    NOTE: A **plumb line**, also called a **plumb bob**, is a length of line or string with a weight attached to the bottom, usually with a pointed tip. It is used as a vertical reference line. You may also use a laser level. (If you do not have access to either of these tools, you may use a heavy duty tape measure; hold the end of the tape to the **CEILING SURFACE,** then extend the case to the **HITTING SURFACE**. If using this method, you should also use a level to ensure the tape is vertical.)

    Installation table can be found on page 5

SIDE VIEW

HITTING SCREEN

CEILING

VESA 100X100 MOUNT

PLUMB LINE

> 320 CM / 10'6"

RECOMMENDED INSTALL HEIGHT AS OF INSTALLATION TABLE*

DISTANCE FROM CENTER OFF TEE MARKER TO CENTER OF VESA 100X100 MOUNT

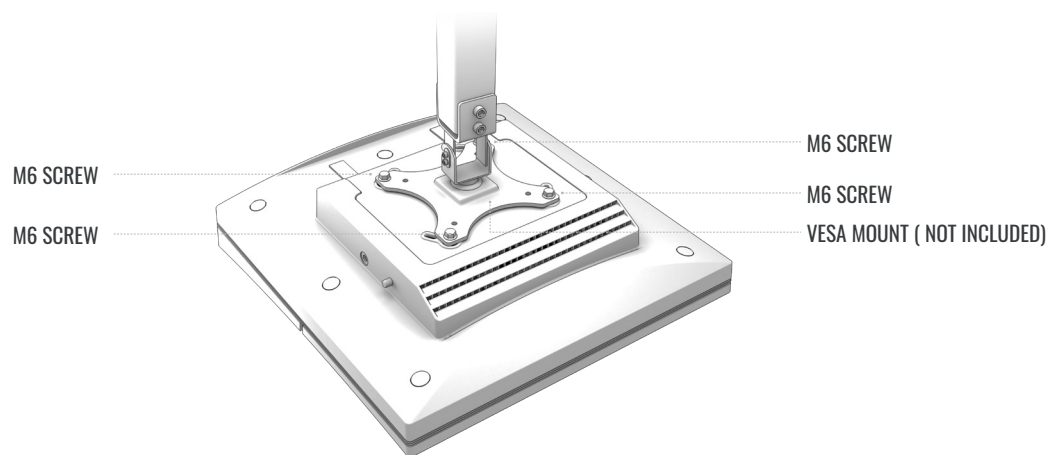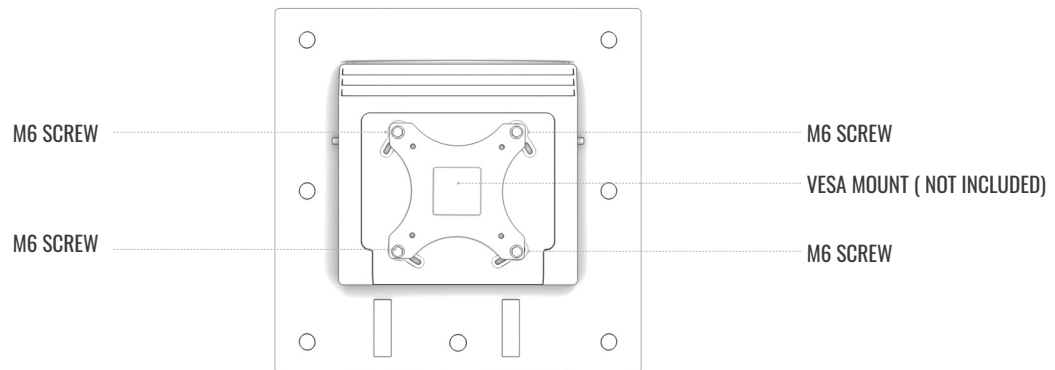HITTING SURFACE

PREFERRED TEE MARKER POSITION

5.	Position the base of the **VESA mount** on the **CEILING SURFACE** so that the center of the adjustable pole extends from the center of the X you marked in Step 4. Attach the base of the **VESA mount** to the **CEILING SURFACE** following manufacturer's instructions.

6.	Adjust the pole on the **VESA mount** so that the bracket that attaches to your **Trackman iO** is set to the recommended mounting height as of the installation table*.

*Installation table can be found on page 5

TRACKMAN iO

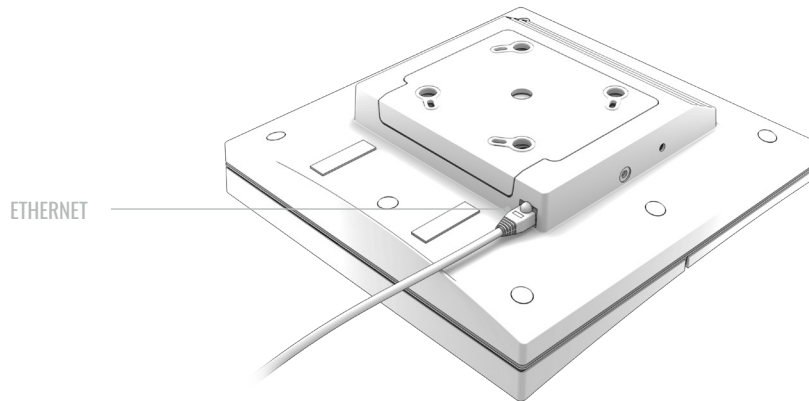| **IMPORTANT** | Have a person assist you fastening the 4 pcs M6 screws while holding the **Trackman iO** in both hands. |

7. Attach your **Trackman iO** to the **VESA mount** bracket using the supplied **4 pcs. M6 screws** and tighten.

M6 SCREW

M6 SCREW

M6 SCREW

VESA MOUNT (NOT INCLUDED)

M6 SCREW

M6 SCREW

M6 SCREW

M6 SCREW

M6 SCREW

M6 SCREW

VESA MOUNT (NOT INCLUDED)

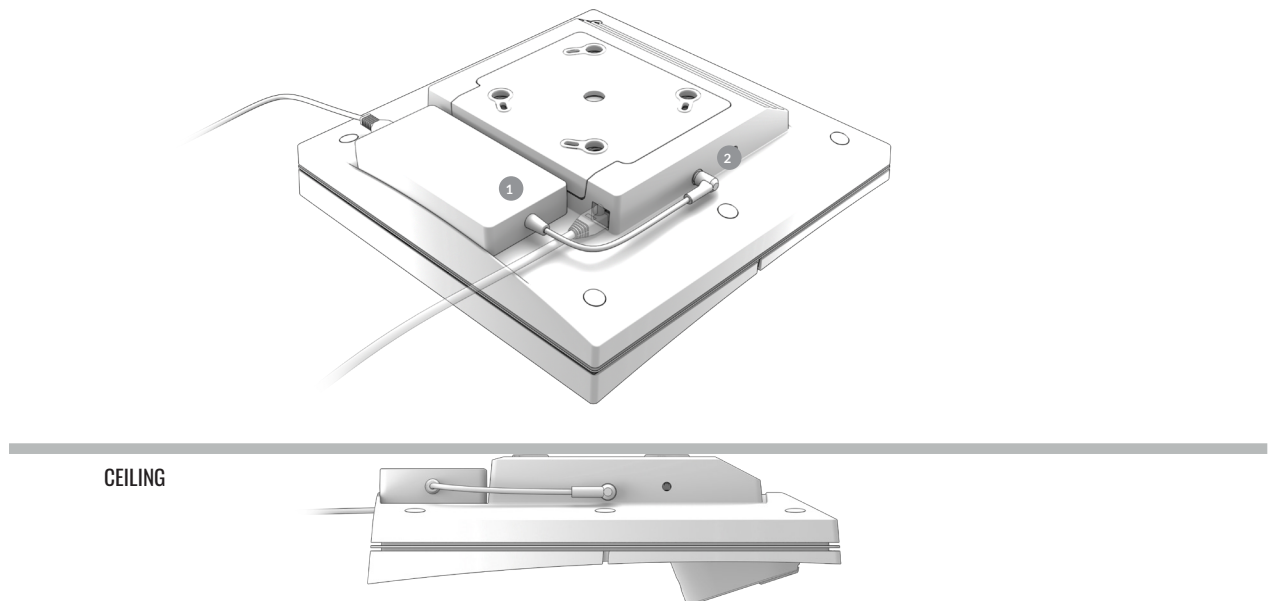8. Ensure the **VESA mount** is level and your **Trackman iO** is aligned with the **HITTING SCREEN**.

POWERING UP YOUR TRACKMAN iO

1.   Once your **Trackman iO** is securely mounted, plug the **ethernet cable** into the ethernet port.
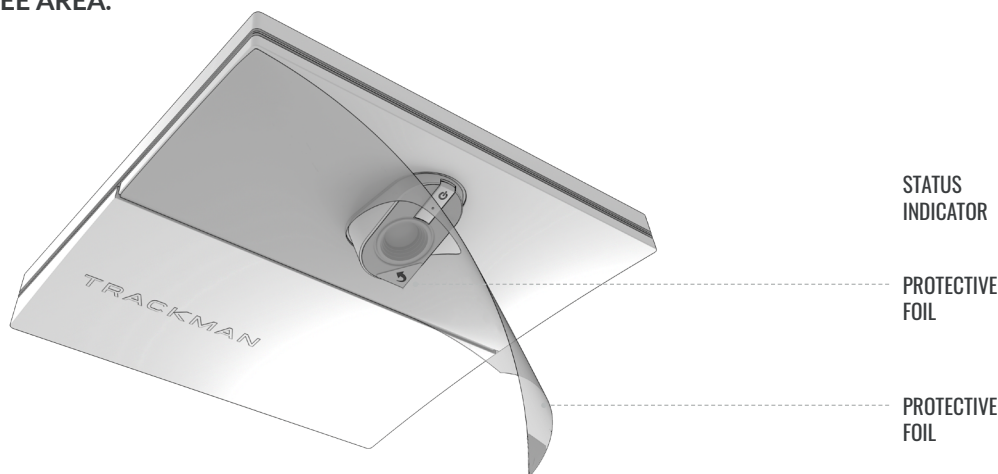
ETHERNET

| IMPORTANT | If your **Trackman iO** is mounted directly to the ceiling, use caution as there will be limited space when plugging in the **ethernet cable**. |

2.   Connect the **AC/DC power adapter** to your **Trackman iO**.

- Connect mains powercable to **AC/DC adapter**.

- Place the adapter on the shelf of the **Trackman iO** **1**.

- Plug the DC connector into DC power plug on the side of **Trackman iO** **2**.

- Make sure the adapter is fastened to your **Trackman iO** by the Velcro strips.

CEILING

| IMPORTANT | Be sure to disconnect the **AC/DC adapter** before unmounting the **Trackman iO**. |

TRACKMAN iO

3. Now peel off the protective foils from the front and the lens of your **Trackman iO.** You can now also remove the **tee marker** from the **TEE AREA.**
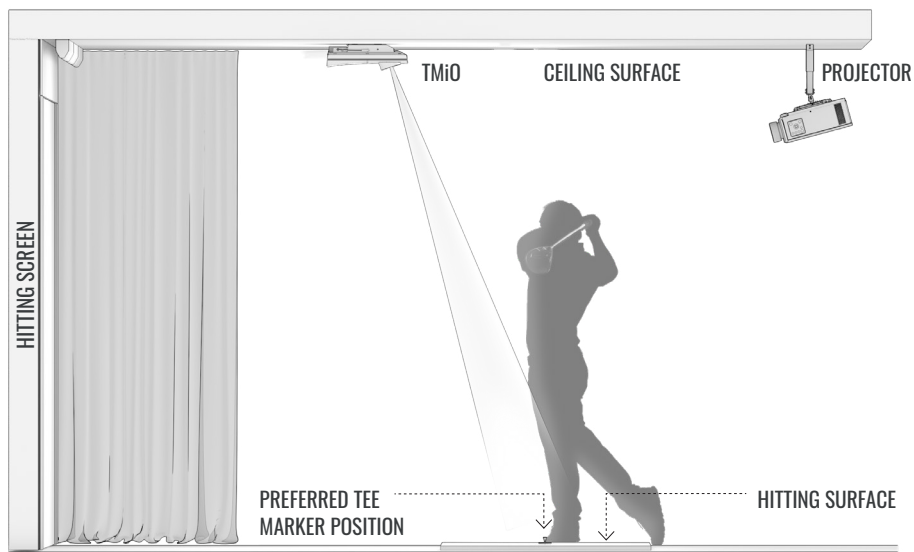

STATUS INDICATOR

PROTECTIVE FOIL

PROTECTIVE FOIL

4. Connect the power plug from the **AC/DC adapter** into an appropriate outlet and your **Trackman iO** will turn on. The status indicator lights will display the current status as shown in Table 3.

State

Booting	Blinking green	
Ready (no PC connected)	Pulsating green	
Active (PC/TPS connected)	Solid green	
Recovery mode	Blinking green/red	
No Network connection	Blinking yellow	
Error	Blinking red	

*Table 3. The **Trackman iO** status indicator*

YOUR INSTALLED SIMULATOR ROOM

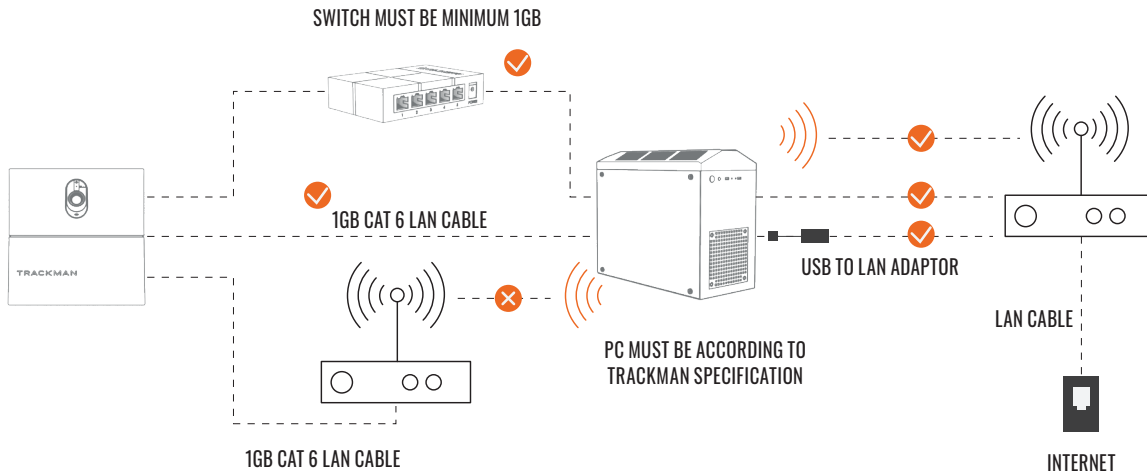TMiO CEILING SURFACE PROJECTOR

HITTING SCREEN

PREFERRED TEE MARKER POSITION HITTING SURFACE

IMPORTANT Your **Trackman iO** must be oriented as shown above.

CONNECTING YOUR TRACKMAN iO TO A PC AND THE INTERNET

SWITCH MUST BE MINIMUM 1GB
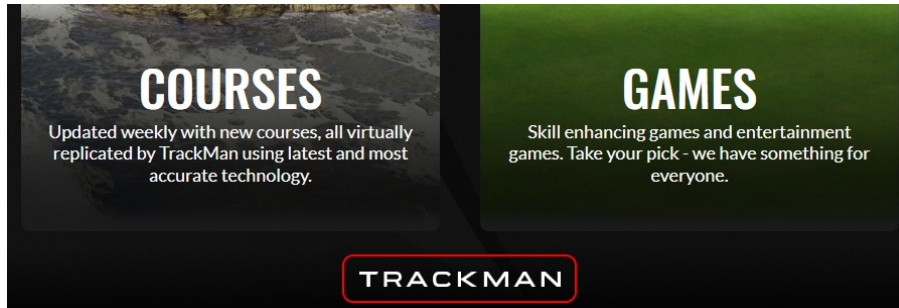
1GB CAT 6 LAN CABLE

USB TO LAN ADAPTOR

LAN CABLE

PC MUST BE ACCORDING TO
TRACKMAN SPECIFICATION

1GB CAT 6 LAN CABLE

INTERNET

PC minimum requirements and recommended internet connection minimum upload/download.
For further information visit https://www.Trackman.com/support
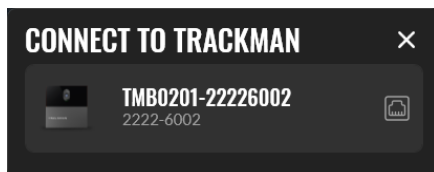
INSTALLING TPS

1.   Ensure Windows is fully updated.
    • Keep installing any pending updates and then press check for updates on the Windows Update
      settings page until no more updates are available. Reboot if necessary.

2:      Install the TPS version from the USB stick.

TRACKMAN iO

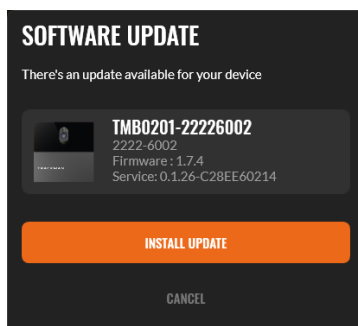# CONNECTING TO YOUR TRACKMAN iO

1. Turn off any other Trackman device normally connected to the system to avoid TPS auto-connecting to it.

2. Launch TPS and wait for it to load

3. Click the Trackman logo at the bottom of the screen.

4. You should be presented with a screen showing the **Trackman iO** as available.

5. Select it.

7. You may see a screen informing you about a license update to the device. **Press OK**.

8. You should be presented with a screen informing you that a software update is available for the device.

9. Press the button and wait while **TPS** downloads the required software to the computer.

CALIBRATING YOUR TRACKMAN iO

Your **Trackman iO** needs to be calibrated to know its position in the room relative to the **TEE AREA** and the **HITTING SCREEN.**

After connecting to your **Trackman iO**, you should be presented with a screen showing an image from one of the cameras in your **Trackman iO**.
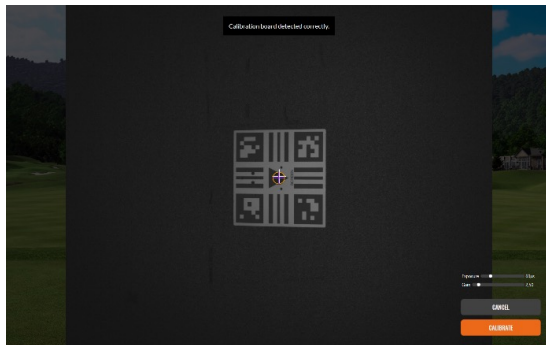

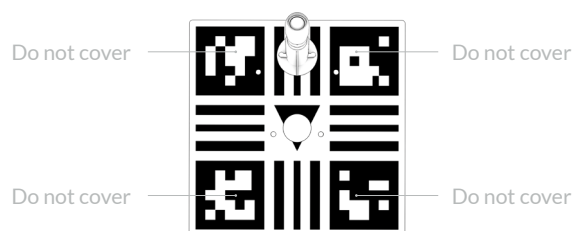*Alignment camera showing **HITTING SCREEN***

*Main camera showing **TEE AREA***

If your **Trackman iO** has never been calibrated before it will show a view of the **TEE AREA** automatically
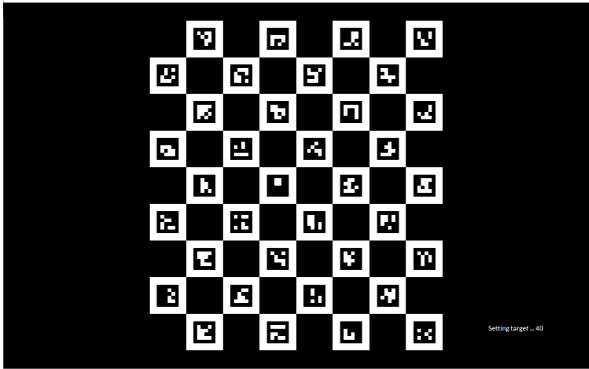
1:   Do you see a view of the **TEE AREA**?
   a.   No: Press "Calibrate"
   b.   Yes: Proceed

2:   Place the supplied **calibration board** on the floor and position it in the center of the image.
   When placed correctly, you will see two crosses inside the hole in the board. The position of the hole indicates the optimal placement of the **tee marker**.

3:   Press **"Calibrate"**

4:   Pick up the **calibration board** and hold it against the **HITTING SCREEN** without covering the four corner markers on the **calibration board**. Now calibrate the distance from the **TEE POSITION** to the **HITTING SCREEN.**

Do not cover   Do not cover

Do not cover   Do not cover

5: Press the autotarget button and wait for TPS to locate the center of the **HITTING SCREEN**. The following pattern will appear on one or more of your displays until TPS locates the correct one.

6: Press "Continue"
You should now be ready to use your **Trackman iO** with TPS**.**

MOUNTING SCREWS RECOMMENDATIONS

Type	Diameter	Length	Environment
Screws	4 mm	30 mm	Ceiling mount Wood, plaster and concrete
Rawplugs	6 mm	35 mm	VESA 100x100 mount (Bracket)
Screws	6 mm	12 mm	VESA 100x100 mount (Drop pole)

PLUGGABLE EQUIPMENT

The system can be used in both pluggable equipment type A. In both situations the socket-outlet shall be installed near the equipment, shall be easily accessible and must always include a Grounded connection.

For Pluggable Equipment Type A, the protection in the installation must be max 20A (USA, Canada, Japan), max 13A (UK, EU).

UPDATES AND INSTALLATION VIDEO

Future updates of the theese instructions can be downloaded at https://www.Trackman.com/support.

Scan the QR code to watch an animated installation video. You can also find the video at www.trackman.com/support.

CONTACT

Trackman A/S, Dr Neergaards Vej 15, DK-2970 Hørsholm, Denmark