

iTrack

User Manual

V1.0.0

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Contents

1.	iTrack Introduction	5
2.	Application Scenarios	5
2.1	Ball Flight Data	5
2.2	Batting statistics and movements	7
2.3	Golf Simulator	8
2.4	Golf Club Fitting Studio	9
3.	iTrack Technical Specifications	9
3.1	Measured Data	9
3.1.1	Full Swing Metrics	9
3.1.2	Putting Metrics	10
3.2	Detection Zones	11
3.2.1	Full Swing Mode Detection Zone	11
3.2.2	Putting Mode Detection Zone	12
3.3	Physical Interfaces	13
3.4	Other Parameters	14
4.	Preparations	14
4.1	APP Download	14
4.2	Network Configuration for System and Devices	15
4.3	Preparation of Related Accessories	16
5.	Training	19
5.1	Ball Flight Data	19
5.1.1	iTrack+iPad (iphone)	19
5.1.2	iTrack+displayer	19
5.1.3	iTrack + displayer + iPad or iPhone	19
5.2	Batting statistics and movements	19
5.2.1	iTrack+iPad (iphone)	19
5.2.2	iTrack + iPad or iPhone + iPad or iPhone	19
5.3	Golf Simulator	20

5.3.1	GSPROSimulator Software Application	20
5.3.2	Creative Golf AdvanceSimulator Software Application . .	21
5.3.3	E6 APEXSimulator Software Application.	21
6.	Troubleshooting	21
7.	Contact Us	22

Version Description

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V1.0.0	Initial Release	2026-06-05	XinyuanLu

iTrack User Manual

1. iTrack Introduction

The iTrack Golf Launch Monitor leverages high-speed imaging technology, advanced image processing algorithms, and high-speed processing hardware to deliver powerful performance in a portable form factor. It reliably captures real-time, high-precision data on all ball flight metrics at takeoff, as well as club head and club face kinematics at impact for woods, irons, and putters. With a single device, users gain access to comprehensive data for every shot type from full swings to putts, making iTrack an essential tool for golf instruction and training, golf simulation, and club fitting.



Figure1

2. Application Scenarios

iTrack supports multiple application scenarios to meet diverse user needs, including: Ball Flight Data Only, Ball Flight Data + Swing Motion Capture, Golf Simulator, and Golf Club Fitting Studio.

2.1 Ball Flight Data

(1) iTrack+iPad (ipone)

This setup only requires an iPad or iPhone (compatible with Android tablets and smartphones) with the CasevisionGolf APP installed. Simply connect the mobile device to the iTrack hotspot, and you can view shot data, ball trajectory, and shot curves on the APP interface immediately after impact.



Figure2 iTrack+iPad or iPhone(left:swing,right:putting)

(2) iTrack+displayer

iTrack is equipped with a standard HDMI display output interface, which can be connected to an HDMI monitor to view shot data and trajectory curves.



Figure3 iTrack+displayer(left:swing,right:putting)

(3) iTrack + displayer+ iPad or iPhone

This setup requires an HDMI monitor and an iPad/iPhone. Students can view their shot data on the monitor, while coaches can simultaneously access shot data and various trajectory curves on the iPad/iPhone.



Figure4 iTrack+displayer+iPad or iPhone(left:swing,right:putting)

2.2 Batting statistics and movements

(1) iTrack+iPad (or ipone)

This setup only requires a single iPad or iPhone. The device's built-in camera captures swing motion, allowing users to view both shot data and swing footage on the same device, with the added functionality of AI-powered swing analysis.



Figure5 iTrack+iPad or iPhone(left:swing,right:putting)

(2) iTrack + iPad or iPhone + iPad or iPhone

This setup requires two iPads or iPhones. One device is used as a camera to capture swing and impact motion, while the coach can view synchronized shot data and swing footage on the second mobile device, with full mobility to move freely around the hitting area.



Figure5 iTrack+iPad or iPhone+iPad or iPhone(left:swing,right:putting)

2.3 Golf Simulator

By transmitting iTrack data to a simulator computer via a network (wired or wireless), users can enable full golf simulation functionality. iTrack is natively compatible with E6 APEX, GSPro, Creative Golf Advanced, KGolf, MiniBay Golf, and other leading simulator platforms. Compatibility with other third-party simulator software is available via communication protocol integration with the software manufacturer.



Figure7

2.4 Golf Club Fitting Studio

iTrack possesses comprehensive and precise data on balls, club heads and club faces. It also provides statistical data and process curves. Therefore, it can be used for fitting of various types of clubs.

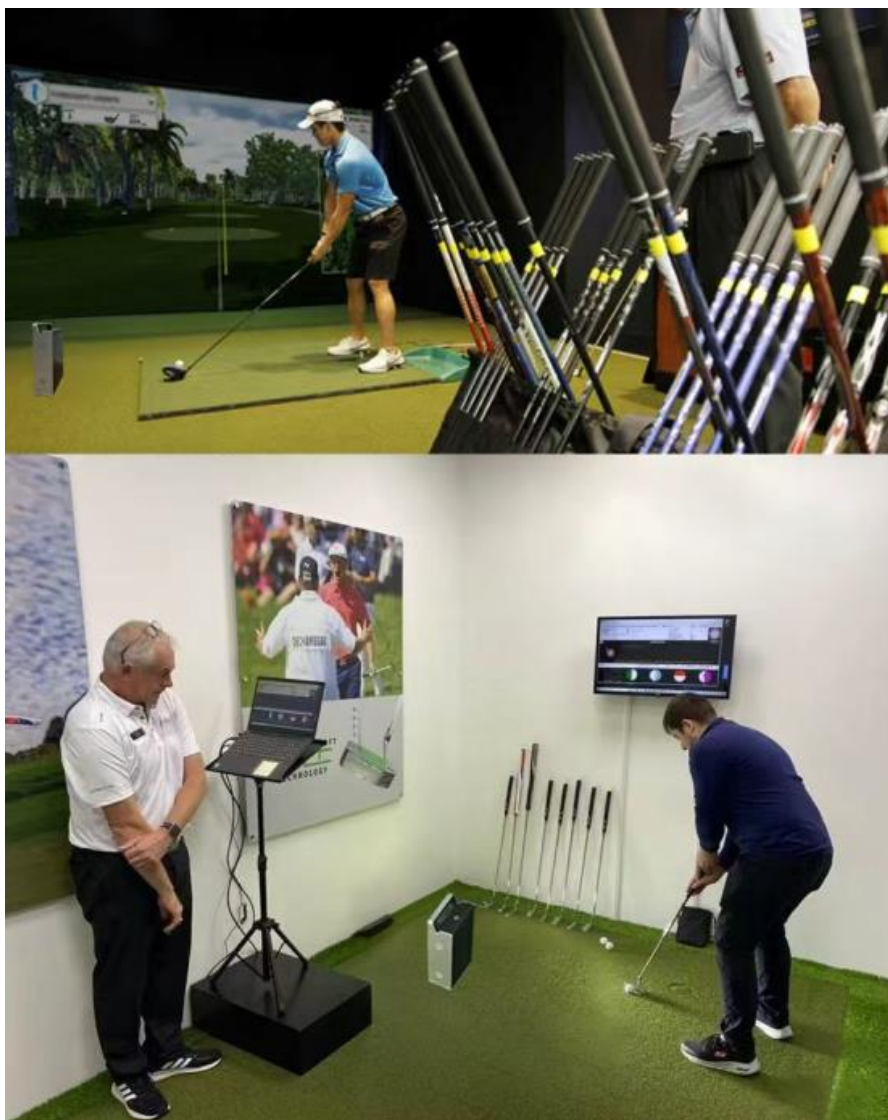


Figure8

3. iTrack Technical Specifications

3.1 Measured Data

3.1.1 Full Swing Metrics

- (1) Ball Launch Data: Ball Speed, Launch Angle, Launch Direction, Spin (Total Spin / Spin Axis, or Backspin / Sidespin), Launch Video;

- (2) Ball Flight Trajectory: Carry Distance, Roll Distance, Lateral Offset, Apex Height, Landing Angle, Flight Time;
- (3) Club Head Metrics: Club Speed, Angle of Attack (AOA), Club Path, Smash Factor;
- (4) Club Face Metrics: Face Angle, Dynamic Loft, Lie Angle, Closure Rate, Impact Location (X/Y Coordinates: X = horizontal axis, positive values from center to toe, negative values from center to heel; Y = vertical axis, positive values from center to top of face, negative values from center to bottom of face).

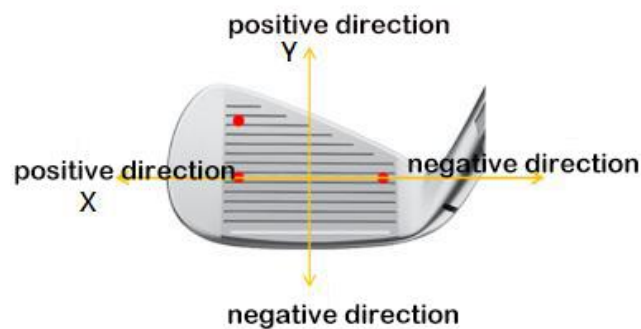


Figure9

3.1.2 Putting Metrics

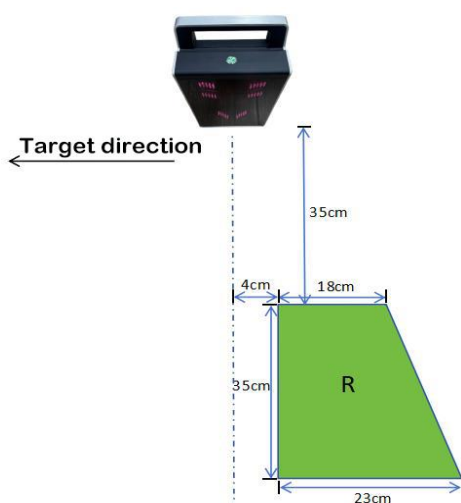
- (1) Putting Tempo: Backswing Time, Downswing Time, Backswing Length, Follow-through Length, Tempo Ratio;
- (2) Club Head Metrics: Club Speed, Angle of Attack, Club Path, Smash Factor, Club Head Trajectory;
- (3) Club Face Metrics: Face Angle, Dynamic Loft, Lie Angle, Twist Angle, Closure Rate, Impact Location (X: positive values from center to toe, negative values from center to heel);
- (4) Ball Launch Data: Ball Speed, Launch Angle, Initial Direction, Spin (Sidespin, Backspin, Roll Spin), Launch Video, Launch Image;
- (5) Ball Roll Data: The green surface has no slope. The green speed is set manually. Under these conditions, the following calculations are made: total distance, approach speed to the hole, and total deviation.

3.2 Detection Zones

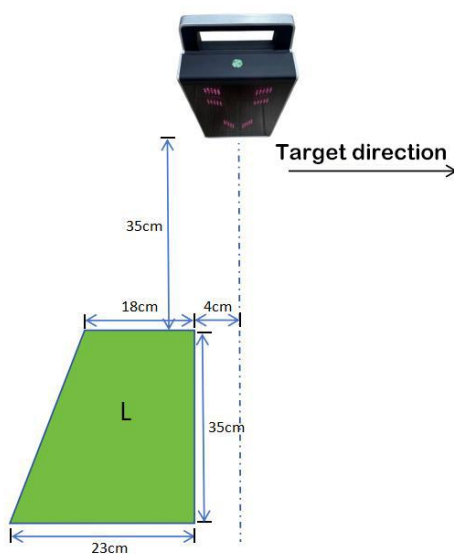
iTrack supports both left and right-handed play. Simply position the device in the corresponding setup area based on your handedness.

3.2.1 Full Swing Mode Detection Zone

The ball is within a vertical distance of 35-70 cm from the equipment. The effective detection area on one side is a right-angled trapezoid with an upper side length of 18 cm, a lower side length of 23 cm, and a height of 35 cm.



Right hand swing

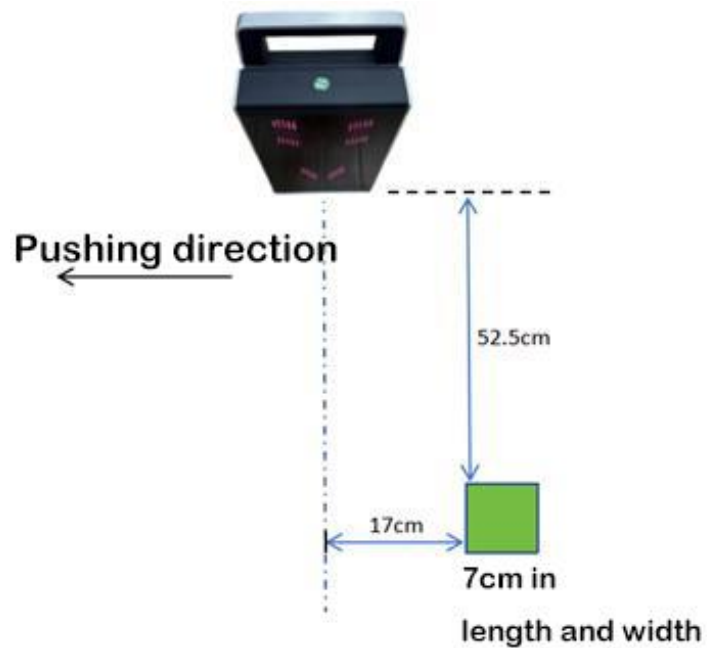


Left hand swing

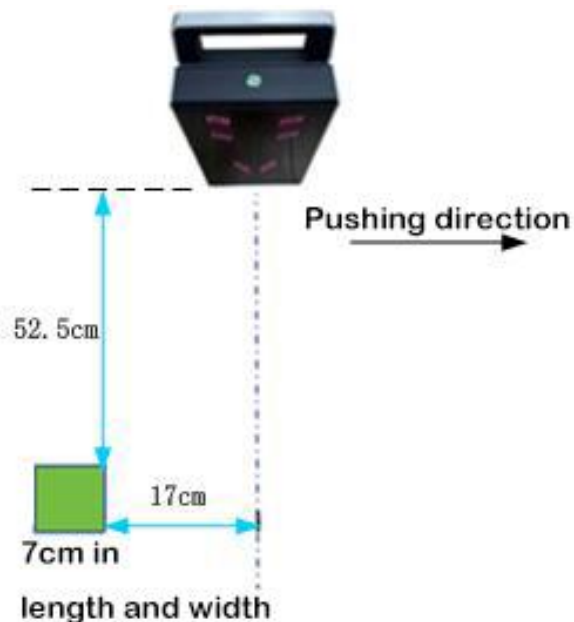
Figure10

3.2.2 Putting Mode Detection Zone

The ball must be positioned 52.5-59.5cm perpendicular to the device. The effective detection area is a 7cm x 7cm square.



Right hand swing



Left hand swing

Figure11

3.3 Physical Interfaces

(1) Power On/Off Button

Press and hold for 3 seconds to power on (green light flashes); press and hold for 3 seconds while powered on to shut down (green light turns off).

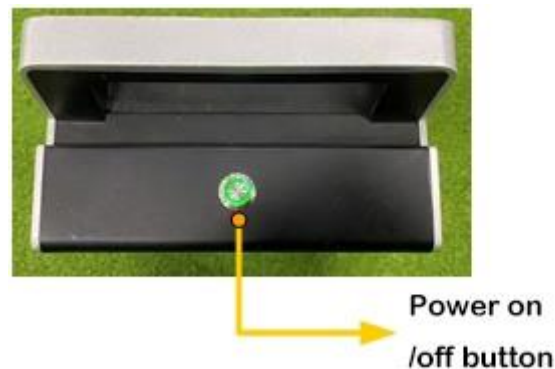


Figure12

(2) Network

Wireless Network: Dual wireless network adapters – one operates as a dedicated Wi-Fi hotspot for the device, while the second connects to the internet. Mobile devices connected to the iTrack hotspot maintain simultaneous internet connectivity.

Wired Network: 1000M/100M Ethernet port.

(3) Type C Port

USB 2.0 compliant, enables iTrack to communicate with computers and other devices as a USB peripheral.

(4) HDMI Display Interface

Fixed output resolution: 1080p@60Hz.

(5) Power Port

External Power/Charging Input: DC 12-15V/4A. Charging Indicator Status: Red – Charging; Green – Fully Charged; Alternating Red/Green – Charging Fault.



Figure13

3.4 Other Parameters

- (1) Suitable for both indoor and outdoor operation;
- (2) Compatible with artificial hitting mats and natural turf;
- (3) Battery Capacity: 5800mAh, Operating Time: 2.5 hours;
- (4) Dimensions and Weight: Length 15cm × Width 8cm × Height 28cm, 1900g;
- (5) Operating Temperature Range: -10°C to 45°C;
- (6) Certification: CE Certified.

4. Preparations

Preparations vary by application scenario, with the following core setup steps applicable to all use cases.

4.1 APP Download

- (1) For iPad/iPhone: Search for "CasevisionGolf APP" in the App Store, or scan the QR code to download and install. For Android devices, download the CasevisionGolf

APK installation package from <https://www.casevisiongolf.com/CN/index.html>

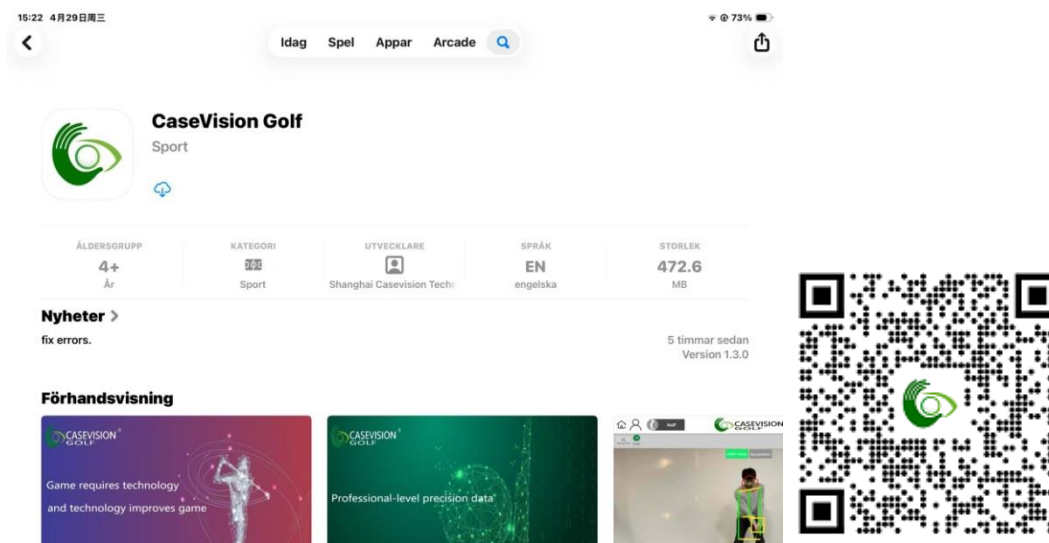


Figure14 Casevisiongolf Download

(2) For iPad/iPhone: Search for "CasevisionCamera APP" in the App Store, or scan the QR code to download and install. For Android devices: Download the CasevisionCamera APK installation package from <https://www.casevisiongolf.com/CN/iTrack.html>

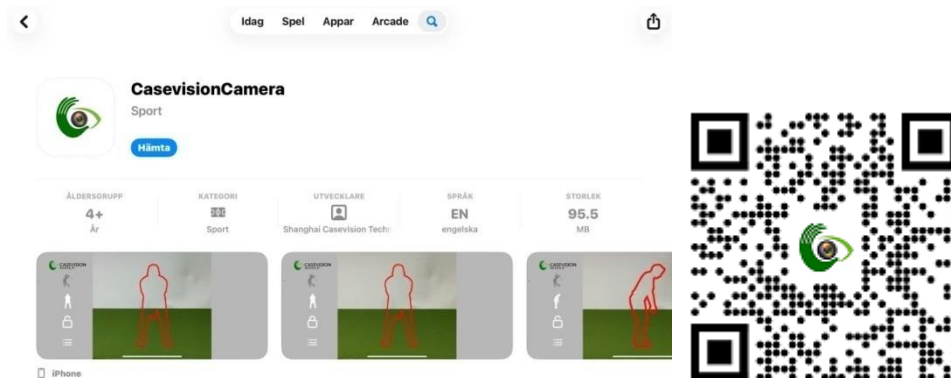


Figure15 CasevisionCamera app Download

4. 2 Network Configuration for System and Devices

(1) Connect the Wi-Fi of both iPads/iPhones to the iTrack Wi-Fi hotspot;

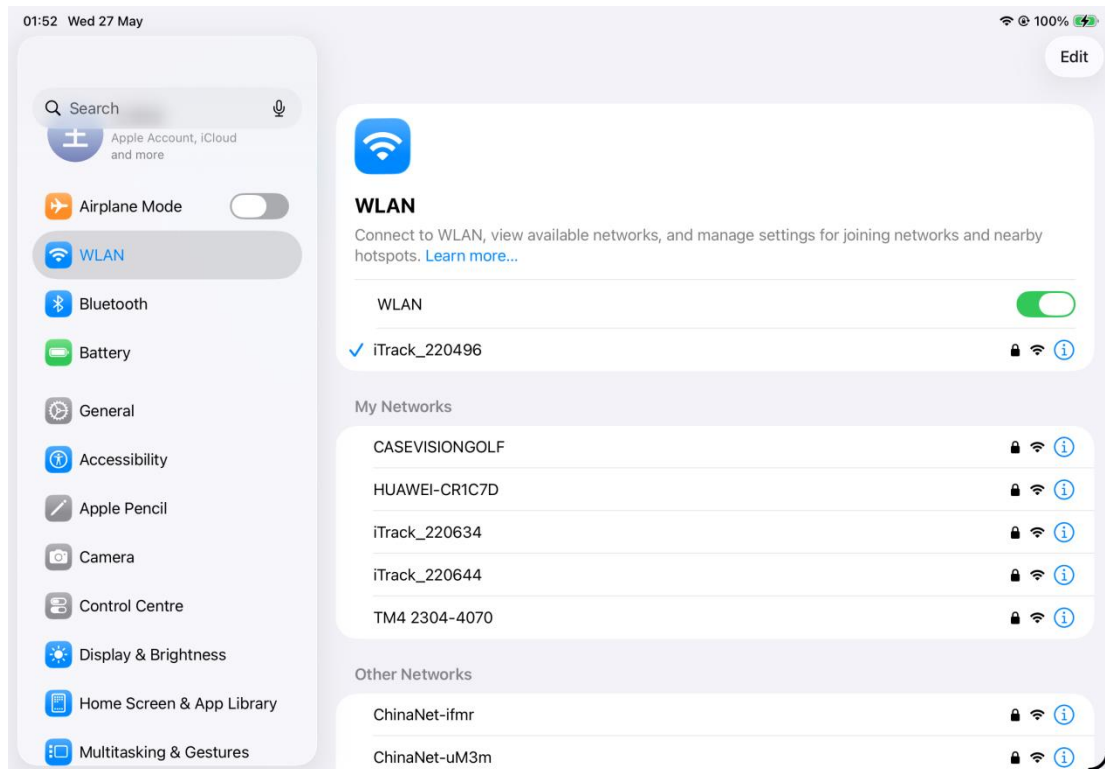


Figure16 Motion Capture iPad connecting to the iTrack hotspot

(2) Biomechanical sensors are pre-configured at the factory. No additional setup is required – they will automatically connect to the iTrack hotspot when powered on.

4.3 Preparation of Related Accessories

(1) Swing Motion Camera Placement

An iPhone or iPad can be used as the swing motion camera. Adjust the distance and height of the tripod to ensure the golfer's full body is in frame, with the hands positioned near the center of the image.



Figure17 Swing Motion Camera Placement

(2) Biomechanical Sensor Placement

Attach the biomechanical sensor clip as shown in the figure below. Ensure the Type-C charging port of the sensor faces the ground, and the clip is approximately perpendicular to the club face.



Figure18 Biomechanical Sensor Placement

(3) Attachment of wooden and iron marking points

No markers are required on the ball or club face for ball flight data capture only. Marking dots are only required for club head/club face data capture and putting mode operation.

Affix 3 marking dots to the club face: Dots 2 and 3 on the toe and heel along the club face centerline, and Dot 1 on the upper portion of the club face. The line connecting Dot 1 and Dot 2 must be perpendicular to the line connecting Dot 2 and Dot 3.



Figure19 Attachment of wooden and iron marking points

(4) Marking Dot Placement for Putters

Affix 4 marking dots to the putter head and hosel: Dots ① and ② on the putter hosel, and Dots ③ and ④ on the putter head. These 4 dots define the putter's stroke plane, so they must be affixed as close to the same plane as possible. The distance between Dots ① and ② shall be 2 marker diameters, and the distance between Dots ③ and ④ shall be 1 marker diameters.



Figure20 Marking Dot Placement for Putters

(5) Ball with markers

For the most accurate putting data capture, use a marked golf ball. Use a non-reflective marker pen to draw random circular marks approximately 5mm in diameter on the ball. Marks must be randomly and evenly distributed, with no symmetrical or regular patterns. A minimum of 3 marks is required: 3 marks must not form an equilateral triangle, and 4 marks must not form a square. When using a minimal number of marks, position the marked side of the ball facing the iTrack device.



Figure21 The ball with markers

5. Training

5.1 Ball Flight Data

5.1.1 iTrack+iPad (iphone)

First, open the CasevisionGolf APP on your iPad or iPhone. After completing your shot, you can view real-time shot data, ball trajectory, and shot curves directly in the APP interface.

5.1.2 iTrack+displayer

This is the simplest setup. Connect an HDMI cable between the iTrack device and your external monitor. After completing your shot, you can view real-time shot data and trajectory curves on the monitor with no additional setup required.

5.1.3 iTrack + displayer + iPad or iPhone

Connect an HDMI cable between the iTrack device and your external monitor, and open the CasevisionGolf APP on your iPad or iPhone. After the student completes a shot, they can view their shot data on the large monitor, while the coach can simultaneously access detailed shot data and various trajectory curves on the iPad/iPhone.

5.2 Batting statistics and movements

5.2.1 iTrack+iPad (iphone)

Mount the iPad or iPhone on a tripod, position it to capture the full swing motion with its built-in camera, and open the CasevisionGolf APP. Golfers can view both synchronized shot data and high-speed swing footage on the same device, with access to AI-powered swing analysis functionality.

5.2.2 iTrack + iPad or iPhone + iPad or iPhone

First, mount one iPad or iPhone on a tripod as a dedicated motion capture camera to record swing and impact motion. The coach opens the CasevisionGolf APP on the second iPad or iPhone. After the shot is completed, the coach can view synchronized swing footage and shot data on the mobile device, with full mobility to move freely around the hitting area.

For detailed operating instructions for the CasevisionCamera APP and

CasevisionGolf APP, please refer to the CasevisionCamera APP Quick Start Guide and Casevision Golf APP Quick Guide, available for download at <https://www.casevisiongolf.com/CN/index.html>

5.3 Golf Simulator

The two core components of a golf simulator are the simulator software and the Launch Monitor sensor. The software delivers immersive, realistic golf course visuals, driven by precise ball flight data from the Launch Monitor to update the scene and replicate real on-course play. The quality of the sensor and software directly determines the quality of the simulation experience.

Users can select software and sensors based on their personal preferences and needs. This DIY approach to building a golf simulator offers maximum customization, especially in an era where software and hardware are increasingly sold via subscription models. This DIY setup gives users maximum flexibility, allowing them to swap sensors and software at any time without additional waste or cost. This flexibility will make DIY setups the mainstream choice for users to build a golf simulator tailored to their needs.

As the data source for the simulator software, the Launch Monitor must deliver accurate, reliable data with ultra-low latency to create a realistic simulation. iTrack delivers tour-level precision data, ultra-low latency, and comprehensive metrics, making it ideally suited for golf simulator applications. It supports both indoor and outdoor use, is compatible with artificial hitting mats and natural turf, and delivers comprehensive ball flight data, club head/club face metrics, and industry-leading putting data. These capabilities form the foundation for on-course simulation, instruction, training, club fitting, and gaming applications. iTrack, paired with the world's leading golf simulator software, delivers an unparalleled realistic simulation experience with maximum flexibility and versatility.

We mainly introduce the applications of three companion simulation software: GSPRO, Creative Golf Advance, and E6 AEX.

5.3.1 GSPRO Simulator Software Application

For detailed operating instructions, please download the iTrack and

GSPro Connection Guide from https://www.casevisiongolf.com/CN/mnq_GSpro.html.

5.3.2 Creative Golf Advance Simulator Software Application

For detailed operating instructions, please download the iTrack and Creative Golf Connection Guide from https://www.casevisiongolf.com/CN/mnq_CreativeGolf.html

5.3.3 E6 APEX Simulator Software Application

For detailed operating instructions, please download the iTrack and E6 APEX Connection Guide from https://www.casevisiongolf.com/CN/mnq_E6APEX.html

6. Troubleshooting

The table below lists common issues users may encounter during device operation, along with potential causes and solutions. You can resolve issues using the guide below, or contact our technical support team for assistance.

Fault Phenomenon	Potential Cause	Solution
No startup response when powering on	Power adapter not connected, battery fully depleted	Normal behavior. Connect the power adapter to power on the device.
Ball lock successful, no shot data after impact	Ball automatically unlocks 1 minute after locking	Reposition the ball and trigger ball lock again.
No shot data after impact	Thin/skulled shot with club face covering the ball at impact	Normal behavior. Adjust your swing to ensure square club face contact at impact.
No putting tempo data detected	Biomechanical sensor powered off or battery depleted	Power on the biomechanical sensor or charge the device.
No club face data after impact	Club face marking dots damaged or fallen off	Normal behavior. Adjust your swing path and club face orientation at impact.
	Outside-in swing path preventing the device's camera from detecting club face marking dots	Reconnect the motion capture device to the iTrack Wi-Fi hotspot.

No putting motion video captured	Putting motion camera not connected to the iTrack hotspot	Push rod movement camera re-connection to iTrack hotspot
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7. Contact Us

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For more details, please scan the QR code to follow our official WeChat account!

