

For The First Time Quad Doppler Radar and
Dual Photometric Cameras in One Launch Monitor



» User Manual



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LCD Display

Ball Placement LED

Club Selection
Buttons

Power Button

Camera Location

Doppler Covers

Base

GETTING STARTED

Package Contents

Power Adapter



User Manual



Re-installing the Battery



- Remove the battery panel on the ES TOUR PLUS with a phillips screwdriver
- Attach the battery cable to the 3 pin connector located in the upper left corner of the battery compartment
- The red wire should be toward the bottom as shown above
- Reinstall the battery cover

Selecting a Club

Once the device has been powered on, the current club selection will be shown on the display. You can change the club selection using the left/right buttons on the top front of the ES TOUR PLUS or using the app (see page 19).

| Club | Display Name | Club | Display Name |
|----------|--------------|--------|--------------|
| Driver | D WD | 2 Iron | 2 IR |
| 3 Wood | 3 WD | 3 Iron | 3 IR |
| 5 Wood | 5 WD | 4 Iron | 4 IR |
| 7 Wood | 7 WD | 5 Iron | 5 IR |
| 2 Hybrid | 2 HYB | 6 Iron | 6 IR |
| 3 Hybrid | 3 HYB | 7 Iron | 7 IR |
| 4 Hybrid | 4 HYB | 8 Iron | 8 IR |
| 5 Hybrid | 5 HYB | 9 Iron | 9 IR |

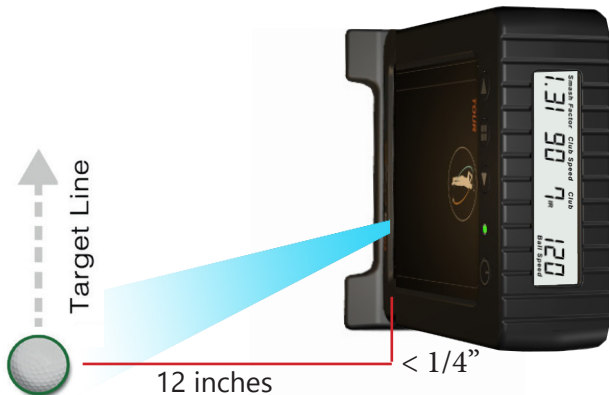
| Club | Display Name |
|----------------|--------------|
| Pitching Wedge | P WDG |
| Gap Wedge | G WDG |
| Sand Wedge | S WDG |
| Lob Wedge | L WDG |

Position the Ball

Place the ES TOUR PLUS facing the ball and golfer. The ball should be placed 12 inches in front of the ES TOUR PLUS just off the back foot of the unit.

Note:

Allow at least 10 feet between the ES TOUR PLUS and any screens or nets (if hitting indoors).



Reverse set-up for left-handed golfers

Place the ball with the logo parallel to the ground and facing the ES TOUR PLUS.
The LED on the front will change from red to green when the ball is in the correct



Reverse set-up for left-handed golfers

Logo facing device

ERNEST SPORTS APP

Installation for Windows



From the Windows Store search Ernest Sports to locate the correct app. Follow the link to the store page, and select Get the app. After installation, there will be a shortcut in the All Apps tab under the Windows start menu.

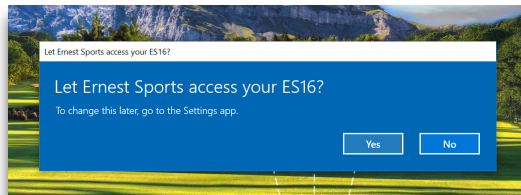
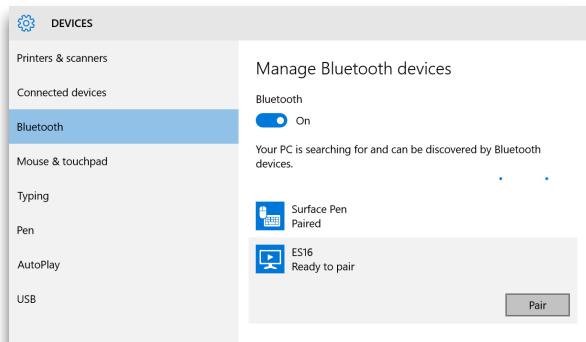
Bluetooth Connection

The ES TOUR PLUS uses a Bluetooth connection to send shot data to the app. This will require you to go into the Bluetooth settings on your Windows Device.

Windows Pairing

On your Windows device, go to the Windows Icon. Select Settings, Devices, and Bluetooth. Turn Bluetooth On. Scan for devices. Once found, select ES16 and Pair. A password prompt will appear, enter 1234, and click next. The device will show connected at first, then show paired after the connection is completed. The ES TOUR PLUS will connect as needed after this.

On initial launch of the app, Windows will ask if Ernest Sports can access your ES TOUR PLUS. Click Yes.



Installation for Apple®



From the App Store search ESGolf to locate the correct app. Click GET to download the app. After installation, the app will be available from the homescreen of your iPad®.

Bluetooth Connection

The ES TOUR PLUS uses a Bluetooth connection to send shot data to the app. This will require you to go into the Bluetooth settings on your iPad.

Apple Pairing

On your iPad, go to the Settings icon on your home screen, select Bluetooth. Turn Bluetooth On. Your iPad will automatically search for available devices. Once found, the ES16 should appear under Other Devices. Click on ES TOUR PLUS, and your iPad will pair to the device after a few seconds. The ES TOUR PLUS will be displayed under My Devices and show connected.

Home Screen

Quick Start - Select this option if you do not need the data to be saved. This is a good option to use for a demo of the device.

Active User - Select this option if the current user already has a profile.

Create New User - Enter a name, email, and username, then click **Create User** to get started with a new range session.

The image displays three panels from a dark-themed application interface. Each panel has a title at the top, a descriptive text box, and a button at the bottom.

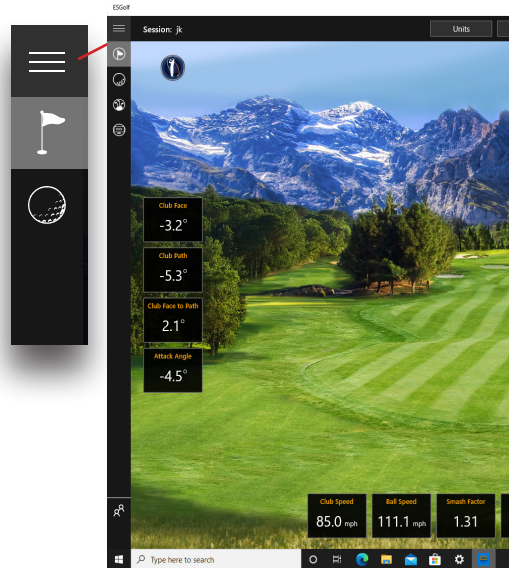
- Quick Start:** The title is "Quick Start". The text box contains: "Select Quick Start if you do not need your data saved. Simply click the 'Get Started' button and start seeing your shot data displayed. Have fun!". The button at the bottom is labeled "Use Guest Account".
- Active User:** The title is "Active User". The text box contains: "Select from an active user to start your Range Session with the ES16. All data is saved when an active user is selected.". Below the text box is a large, empty rectangular area. The button at the bottom is labeled "Select User".
- Create New User:** The title is "Create New User". The text box contains: "Create a new user to start your Range Session with the ES16. All data is saved when a new user is created.". Below the text box are three input fields labeled "Name", "E-mail", and "Username". The button at the bottom is labeled "Create User".

Navigation Bar

On the left edge of the app are icons that allow movement between the main sections:

- Range Session
- View Logs
- User
- Settings

Clicking on the icon in the top left corner with the parallel lines expands the navigation bar to show names along with the icons.

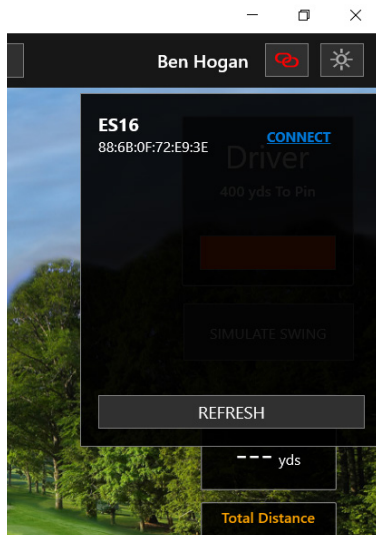


Connecting Bluetooth in the App

Click the connection icon (chain links) in the upper right corner of the screen. A window listing paired Ernest Sports devices will appear below the connection icon. If ES16 is not an option, click REFRESH at the bottom of the window.

NOTE: If the device is still missing from the list, check the Bluetooth pairing in the Windows settings.

Select the device and click CONNECT to the right of the device. When connection is complete, a confirmation will appear, and the connection icon will turn green. The app is now ready to receive swing data.

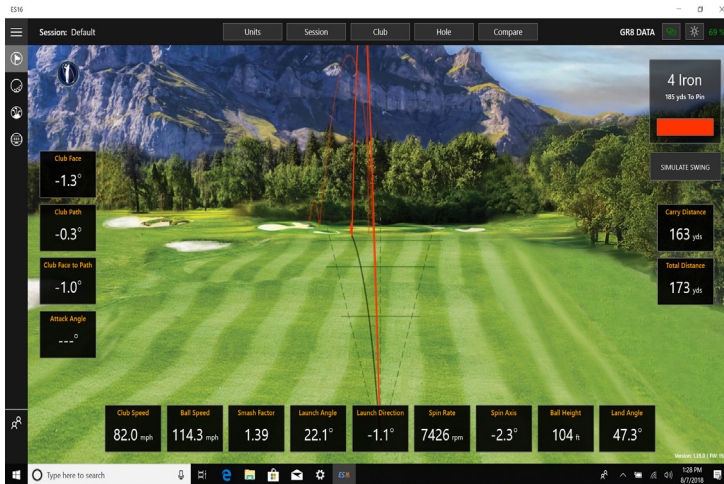


Course View



Course View cont'

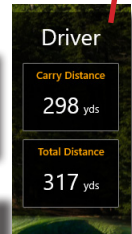
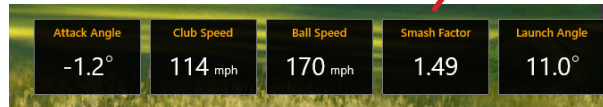
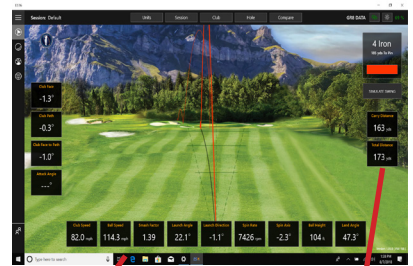
The ES TOUR PLUS app displays flight path and shot data. Course view is represented by the flag icon in the top left.



Data Provided

Initial launch statistics immediately populate the screen and are followed by real time animated flight statistics.

- Angle of Attack
- Ball Speed
- Carry Distance
- Club Path
- Club Speed
- Dynamic Loft
- Face Path
- Face to Path
- Hangtime
- Landing Angle
- Launch Angle
- Launch Direction
- Maximum Height
- Smash Factor
- Spin Loft
- Spin Rate
- Spin Axis
- Total Distance



Outdoor Mode

Outdoor Mode allows for increased functionality when outdoors in direct sunlight. In Outdoor Mode a green light is no longer required to gather shot data, and you do not have to face the logo towards the Tour Plus. However, if you do still face the logo you may still get a green light based on your specific outdoor conditions. Launch direction and spin axis are no longer displayed as you can visually verify these by watching your shot and shot shape. To set your Tour Plus to Outdoor Mode 1. Press the center button that has 4 squares on it to enter the program menu. 2. Press the right arrow button until the # 1 MDE appears (the # can be either a 0, 1, or 2) 3. Press the center 4 square button and the # will begin to blink. 4. Press the right arrow to scroll through 0, 1, or 2. 5. Press the center 4 square button again to make the selection. 0 is indoor mode, 1 is outdoor mode for right handed golfers, and 2 is outdoor mode for left handed golfers. (have pictures for illustration)

Chip & Putt Mode

This is used during golf course simulation. Chip (CHP) and Putt (PTT) mode allows the user to Putt and also hit very short chips and bump and run shots in the simulation software. Select putter from the simulation software, or select PTT as your club manually on your ES TOUR PLUS. For best results we suggest CHP use for shots under 30yd - 40yds.



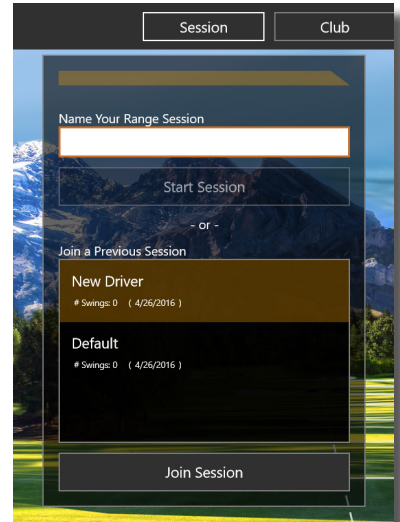
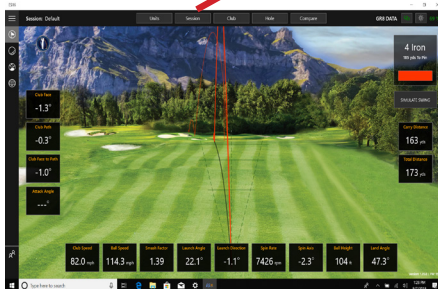
Sessions

From the top center of the screen select Session.

To begin a new session, name your range session and select Start Session.

To join a previous session, select an existing session from the list and click Join Session.

Pro Tip: Session name can be used to identify specific clubs or balls being tested.

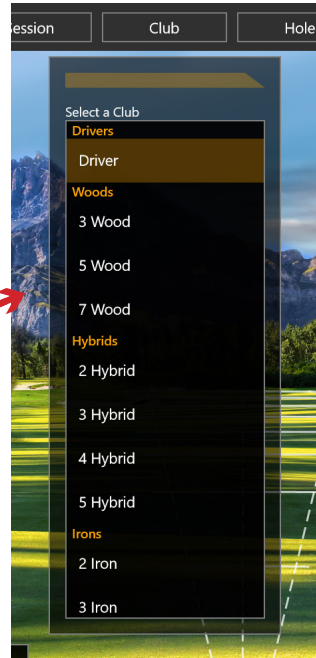
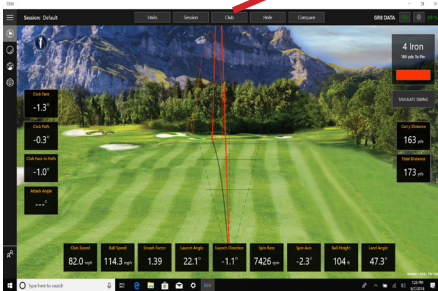


Selecting a Club

From the top center of the screen select Club.

Scroll through the list and select the club you would like to use. That club will then appear on the ES TOUR PLUS.

Appropriate club selection is needed for storing accurate club statistics.

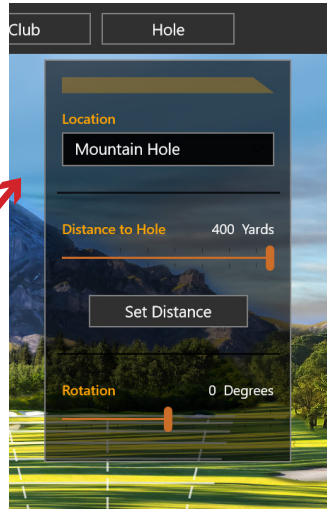


Course and Distance Selection

From the top center of the screen, select Hole.

Under Distance to Hole, use the slider to select distance to the pin. Then select Set Distance.

Under Rotation, the target line can be aimed to the left or right.



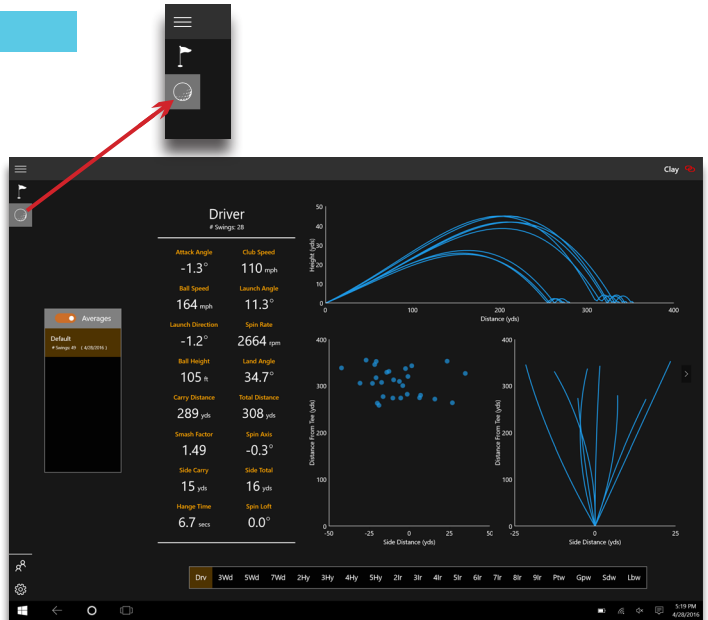
Club Averages

Select View Logs from the navigation bar.

From the box on the left, select Averages with the toggle button, then the session to be viewed.

To change the club data being viewed:

- Select club from list at bottom of the page
- Swipe left to right
- Left/Right arrow keys
- Arrows at the sides of the screen



Session Data

Select View Logs from navigation bar.

From the box on the left, select Raw with the toggle button, then choose the session to be viewed.

The screenshot shows a mobile application interface for golf analytics. At the top, there is a navigation bar with a hamburger menu icon and a flag icon. Below the navigation bar, a red arrow points to a circular icon in the left sidebar, which is highlighted. The main content area displays a list of session data for four different clubs, each with a date of 4/28/2016. The data is presented in a grid format with columns for various metrics. The left sidebar has a toggle for 'Raw' (which is currently off) and a 'Default' section with a sub-section for '4/28/2016'. The bottom of the screen shows a Windows-style taskbar with navigation icons and a date/time display of 5:19 PM 4/28/2016.

| Club | Date | Attack Angle | Club Speed | Ball Speed | Launch Angle | Launch Direction | Spin Rate |
|----------------|-----------|--------------|------------|------------|--------------|------------------|-----------|
| Lob Wedge | 4/28/2016 | -5.0° | 90 mph | 111 mph | 26.4° | 4.9° | 9572 rpm |
| Sand Wedge | 4/28/2016 | -5.2° | 77 mph | 95 mph | 21.8° | -2.0° | 9522 rpm |
| Gap Wedge | 4/28/2016 | -5.3° | 90 mph | 110 mph | 25.3° | 3.2° | 9562 rpm |
| Pitching Wedge | 4/28/2016 | -5.2° | 77 mph | 95 mph | 23.2° | -0.3° | 8778 rpm |

Best Practices

Spin and Spin Axis

The ES Tour requires that the balls used have a straight line logo. This means that the software treats the logo like a line, measuring the rotation from one picture to the next picture. It also tracks the displacement of the line for spin axis. Below are some tips to help with logo detection.

Logo Tips

- The logo should resemble a line 0.7" L x 0.1" H
- Bold logos like Srixon and TaylorMade seem to be the best
- Avoid extra logos that would appear in the picture next to the straight line logo
- Avoid curved logos like Callaway
- Although a black permanent marker can be used to fill in a non-bold logo, the ink will probably discolor a white impact screen
- The ball should be placed so that the logo is at the center of the face of the ball if viewing from a line perpendicular to the target line

Best Practices

Launch Direction and Launch Angle

The ES Tour converts pictures into 3D system coordinates to determine the Launch Direction and Launch Angle. Below are some tips to help with these measurements.

Ball Placement Tips

- White balls should be used as they provide the best contrast for detection
- If needed, calibrate the ES Tour in the same place facing the same direction as when the unit will be in use
- During calibration, be as precise as possible when placing the ES Tour and tee provided on the calibration sheet
- While in use, place the ball and then immediately move back or to the side as to not interfere with the ball detection. Detection should occur in about 2-3 sec
- Place the ball about 10"- 12" adjacent to the foot of the ES Tour normally provides the best detection
- The unit should be aligned to aim parallel to the target line
- Be sure that the unit is not moving due to the strike. If the strike point and the unit share a small mat, the mat may move during the strike.

CALIBRATION

Unit is pre-calibrated and ready for use. If you are experiencing intermittent performance, calibration may correct the issue. Please call tech support if you need assistance.

To calibrate your Tour Plus you will need a golf ball, and the calibration kit included with your Tour Plus that includes the calibration template and black rubber calibration tee. We suggest you do this on a stable flat surface such as a countertop or table, and in the room that you will be using the Tour Plus in for more accurate calibration due to lighting.

1. Place the calibration template on a flat stable surface.
2. Place the Tour Plus in the outlined area labeled Tour Plus, ensure you can see some red outline all the way around the Tour Plus.
3. With the light red on press the center 4square button to enter the programming menu (you should see 111 1 CAL).
4. Press the right arrow until you see 3 RST.
5. Press the center 4square button and 3 RST should begin to blink
6. Press the left arrow and it should blink faster
7. Finally press the right arrow and it should return to being solid.
8. Press the left arrow button until you see 000 1 CAL.

CALIBRATION cont'd

9. Place the black calibration tee with a ball on top of the tee (make sure logo is facing unit) in the CAL 1 circle. Ensure you can see some of the red outline all around the tee.
10. While standing to the side of the unit place your hand on top of the Tour Plus to ensure the Tour Plus does not move during this process and press the center 4 square button. The 000 will begin to blink for 20-30 seconds and start counting up to 020 and then turn to 111 once complete.
11. Press the right arrow and CAL 2 should be displayed.
12. Place the tee and ball on the CAL 2 circle and repeat step 10.

TIPS & TRICKS

We recommend fully charging the battery overnight before use. The ES Tour Plus has a 4-5 hour battery life when fully charged.

The calibration template has a green area displayed, this area is where you should place the ball to get a proper recognition and a green light.

Place the ball closer to the unit for shorter/slower shots and chips

Place the ball as close to the CAL 1 spot for full swing normal shots

Place the ball slightly farther away when using a tee with a driver

When using tees try to avoid white ones, it will still work with white tees, but colored tees guarantee the cameras do not confuse the tee as being part of the ball.

When using range balls do not face the multiple lines towards the unit, face the word "practice" or range towards the ES TOUR PLUS. If you are using limited flight range balls, this will affect the distances as well as other data points.

TROUBLESHOOTING

The red/green LED will not light up

- The device is not receiving power
- Check your battery cable connection and make sure the battery is charged

The LED will not turn green

- Check the ball position and make sure the logo of the ball is facing towards the unit. If the problem persists, try using a ball with a different logo

The app is not receiving the shot data

- Check the Bluetooth settings in your operating system first, then check the connection in the app

How do you set up the unit for left-handed golfers?

- The ES TOUR PLUS is designed for both left and right-handed golfers. Mirror the setup so that downrange is to the right of the ES TOUR PLUS

The ES TOUR PLUS is not showing up in the Bluetooth settings for the computer or in the app

- First make sure the ES TOUR PLUS is turned on and the Bluetooth on the computer is also on
- If you answered No to the security prompt Let Ernest Sports access your ES TOUR PLUS, your ES TOUR PLUS will be blacklisted by your computer (see My ES TOUR PLUS was

My ES TOUR PLUS was blacklisted in the Bluetooth settings

- Go to the Settings menu on your computer (it should be listed at the near the bottom of the start menu or can be found in the notifications center)
- Click on Privacy, choose Other Devices
- Scroll down until you see ES TOUR PLUS and make sure it is enabled

Set Up Tips in video format at <https://www.ernestsports.com/set-up-tips/>

WARRANTY / REPAIR

The ES TOUR PLUS is warranted for twelve (12) months against any manufacturing defects in materials and workmanship, and for all parts and labor. The warranty applies only to the original purchaser of this product. Warranty work may be completed only by Ernest Sports. If the device is not found to be defective, no warranty work will be performed.

This warranty does not cover damage that is the result of modifications of the product, misuse, abuse, neglect, negligence, vandalism, accident, or abnormal conditions, including but not limited to war, flood, fire, wind or damage caused by occurrences over which Ernest Sports has no control.

For more information call 855-354-4653.



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