

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



» User Manual

ES16
TOUR

TABLE OF CONTENTS

ES16 TOUR	4
GETTING STARTED	5-9
Package Contents	5
Installing the Battery	6
Selecting a Club	7
Positioning the Ball	8-9
ERNEST SPORTS APP	10-23
Installation for Windows	10
Bluetooth Connection	10
Windows Pairing	11
Home Screen	12
Navigation Bar	13

Connecting Bluetooth in the App	14
Course View	15-16
Data Provided	17
Ball Flight Graphs	18
Sessions	19
Selecting a Club	20
Course and Distance Selection	21
Club Averages	22
Session Data	23
TROUBLESHOOTING	24-25
WARRANTY / REPAIR	26

ES16 TOUR



GETTING STARTED

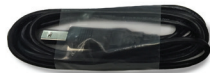
ES16

Package Contents

Lithium Ion Battery



Power Adapter



USB Cable



User Manual



Installing the Battery



- Remove the battery panel on the ES16 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 ES16 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

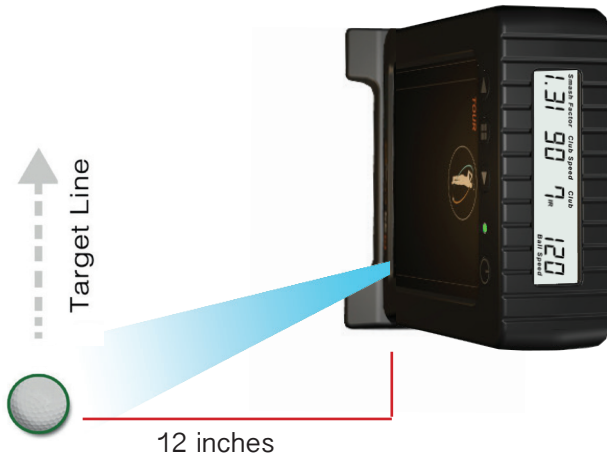
Club	Display Name
Pitching Wedge	P WDG
Gap Wedge	G WDG
Sand Wedge	S WDG
Lob Wedge	L WDG

Position the Ball

Place the ES16 facing the ball and golfer. The ball should be placed 12 inches in front of the ES16 just off the back foot of the unit.

Note:

Allow at least 10 feet between the ES16 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 ES16. The LED on the front will change from red to green when the ball is in the correct position.



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.

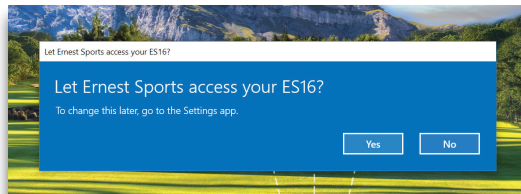
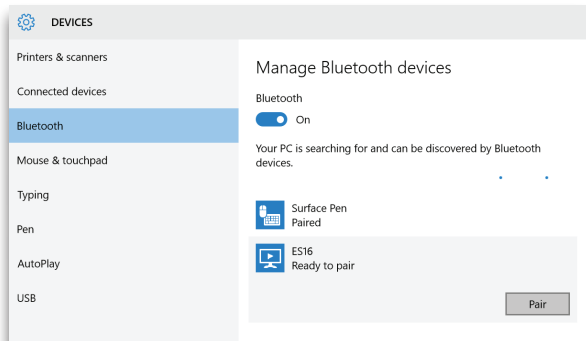
Bluetooth Connection

The ES16 uses a Bluetooth connection to send shot data to the app. This will require you to go into the Bluetooth settings on your smart 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 ES16 will connect as needed after this.

On initial launch of the app, Windows will ask if Ernest Sports can access your ES16. Click **Yes.**



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 mobile application screens side-by-side, each with a dark background and a gold-colored header bar. The first screen, titled 'Quick Start', contains a text box with instructions: '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!' and a 'Use Guest Account' button at the bottom. The second screen, titled 'Active User', contains a text box: 'Select from an active user to start your Range Session with the ES16. All data is saved when an active user is selected.' and a 'Select User' button at the bottom. The third screen, titled 'Create New User', contains a text box: 'Create a new user to start your Range Session with the ES16. All data is saved when a new user is created.' and three input fields labeled 'Name', 'E-mail', and 'Username', with a 'Create User' button at the bottom.

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 3 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

The screenshot displays a golf course simulator interface with several key components:

- Navigation Menu:** Located at the top left, featuring a hamburger menu icon.
- Additional Navigation:** Located at the top center, with buttons for "Session", "Club", and "Hole".
- Shot Path:** A red line tracing the ball's trajectory across the green, highlighted by an orange callout.
- Previous Shot:** A red circle on the right side of the screen, pointing to the "Previous Shots" data panel.
- Shot Path View:** A small inset graph on the left showing a zoomed-in view of the ball's path.
- Shot Data:** A larger graph at the bottom left showing the ball's height and distance over time.
- Shot Data Panel:** A panel on the right side of the screen displaying statistics for the current shot, including "Carry Distance" (305 yds) and "Total Distance" (324 yds).
- Driver Panel:** A panel at the bottom right showing specific driver metrics.
- Bottom Metrics Bar:** A row of ten data points at the bottom of the screen: Attack Angle (-1.3°), Club Speed (115.4 mph), Ball Speed (172.0 mph), Smash Factor (1.49), Launch Angle (11.0°), Launch Direction (0.9°), Spin Rate (2816 rpm), Spin Axis (2.8°), Ball Height (120 ft), and Land Angle (38.0°).

Course View cont'

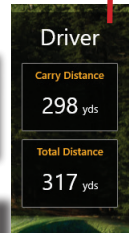
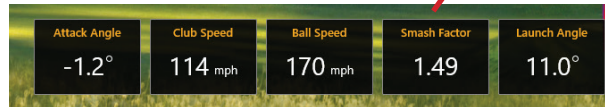
The ES16 app displays flight path and shot data. Course view is represented by the flag icon in the top left.



Data Provided

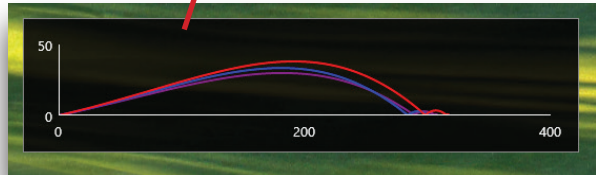
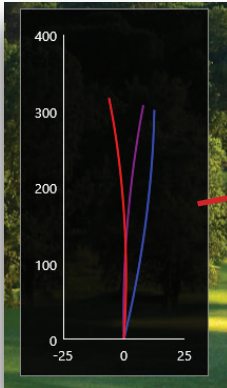
Initial launch statistics immediately populate the screen and are followed by real time animated flight statistics.

- Angle of Attack
- Club Speed
- Ball Speed
- Smash Factor
- Launch Angle
- Launch Direction
- Spin Rate
- Spin Axis
- Maximum Height
- Landing Angle
- Carry Distance
- Total Distance



Ball Flight Graphs

Graphs show ball flight including direction, distance, and shot shape.



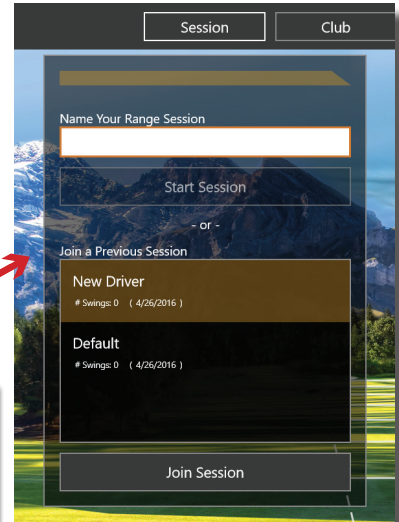
Sessions

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.

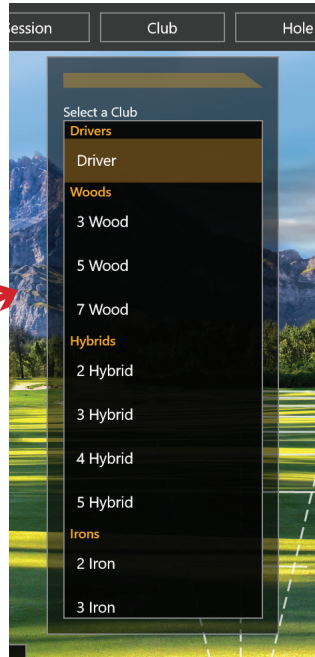


Selecting a Club

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 ES16.

Appropriate club selection is needed for storing accurate club statistics.



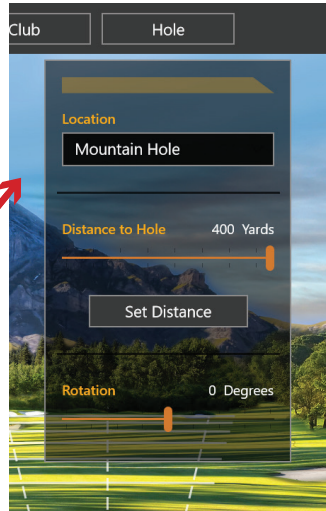
Course and Distance Selection

From the top center of the screen, select **Hole**.

Under **Location**, select the course you would like to view.

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.



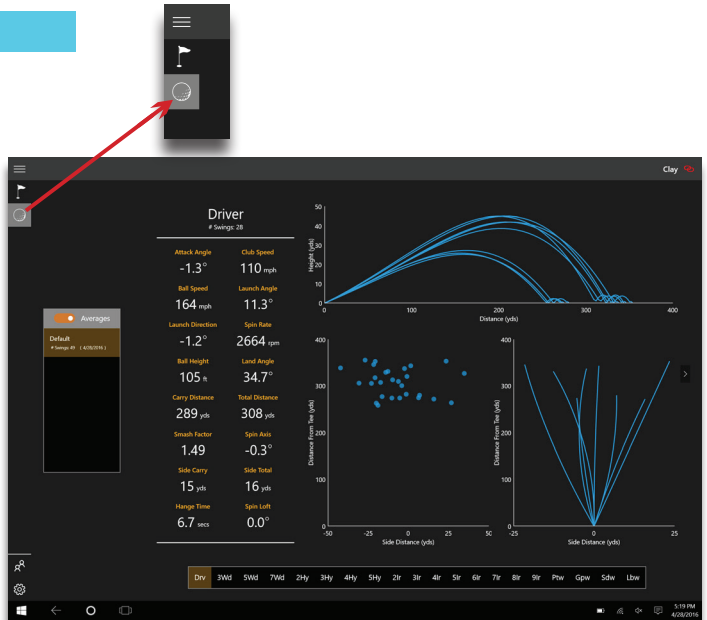
Club Averages

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 displays a mobile application interface for golf analytics. At the top left, a navigation bar contains a hamburger menu icon, a flag icon, and a circular icon with a grid pattern, which is highlighted by a red arrow. Below the navigation bar, a side panel shows a toggle switch for 'Raw' data, currently set to 'Default'. The main content area displays a table of session data for four different clubs, each with a date of 4/28/2016. The data is organized into four rows, one for each club type. Each row contains six columns of data: Attack Angle, Club Speed, Ball Speed, Launch Angle, Launch Direction, and Spin Rate. The data is as follows:

Club	Attack Angle	Club Speed	Ball Speed	Launch Angle	Launch Direction	Spin Rate
Lob Wedge (Shot 37)	-5.0°	90 mph	111 mph	26.4°	4.9°	9572 rpm
Sand Wedge (Shot 36)	-5.2°	77 mph	95 mph	21.8°	-2.0°	9522 rpm
Gap Wedge (Shot 35)	-5.3°	90 mph	110 mph	25.3°	3.2°	9562 rpm
Pitching Wedge (Shot 34)	-5.2°	77 mph	95 mph	23.2°	-0.3°	8778 rpm

At the bottom of the screen, there is a Windows-style taskbar with navigation icons and a system tray showing the time as 5:19 PM on 4/28/2016.

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 ES16 is designed for both left and right-handed golfers. Mirror the setup so that downrange is to the right of the ES16

The ES16 is not showing up in the Bluetooth settings for the computer or in the app

- First make sure the ES16 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 ES16**, your ES16 will be blacklisted by your computer (see My ES16 was blacklisted)

My ES16 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 ES16 and make sure it is enabled

WARRANTY / REPAIR

The ES16 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.



ERNESTSPORTS®
IMPROVING GOLF PERFORMANCE

855.354.GOLF » www.ernestsports.com » 5275 Triangle Parkway, Suite 150, Norcross GA 30092

 www.FACEBOOK.com/ernestsports

 www.TWITTER.com/ernestsports