ES12

DIGITAL GOLF ASSISTANT

» *ES12 User Manual*

ERNESTSPORTS
IMPROVING GOLF PERFORMANCE

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Innovative Technology

The ES12 is a portable launch monitor that provides for an enjoyable and informative golf experience. Combined with the Ernest Sports smartphone app, the ES12 is great for golfers of all levels of expertise. From junior golfers to professional golfers, this system incorporates technique with enjoyment, bringing new life to your golf game.
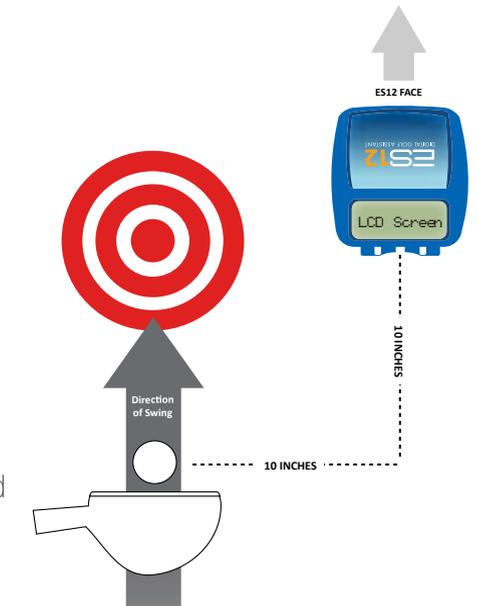
Positioning the ES12

Once club selection has been made, fully extend the kickstand out of the back of the ES12 and place the device 10 inches beside your ball and 10 inches downrange of your ball (see illustration below).

Position the ES12 on the ground with the front of the device facing the direction you will be hitting the ball.

Quick Tip: Balls not hit cleanly may not be read properly by the device, particularly if a substantial amount of debris from the ground passes into the doppler field.

Quick Tip: When hitting the Lob Wedge, due to the degree of ball flight, the ball should be placed 3 inches (rather than 10 inches) behind the ES12. The ball placement should remain 10 inches side-to-side.

ES12 FACE

LCD Screen

10 INCHES

Direction of Swing

10 INCHES

Getting Started

Programming Your ES12 Device

With your device powered off, press and hold the "Club" button, then press the "Power" button. This will power on your ES12 device in programming mode.

The first section of the programming mode is altitude (ALT). Press the "Club" button until you get to your closest altitude. The following chart shows the altitude notations:

LCD Readout	Altitude
A00	Sea Level
A01	1000 ft. above sea level
A02	2000 ft. above sea level
A03	3000 ft. above sea level
A0X	(X)000 ft. above sea level

Press the "Power" button to go the next section.

Programming Mode

The second section of the programming mode specifies whether measurements will be displayed in imperial units (YRD for yards and mph) or metric (MTR for meters and kph). Pressing the "Club" button will change the ES12 between imperial and metric measurements.

Pressing the "Power" button will advance the ES12 to the third section of its programming mode where the unit's group setting (GRP) will refine the ES12's algorithm to further improve accuracy.

The user's appropriate group is determined by hitting a 5 iron five times and averaging the ball speed of the five shots. The average ball speed will determine the appropriate group based on the chart below:

LCD Readout	Ball Speed	Group	Difference of Distance Calculations
G1	Greater than 115 mph	Elite male golfer	Driver calculates total distance, all other clubs calculate carry distance
G2	Less than 115 mph	Amateur male golfer	Driver calculates total distance, all other clubs calculate carry distance
G3	Less than 115 mph	Average male golfer	Carry distance calculated for all wedges, 7, 8 and 9 irons. All other clubs calculate total distance
G4	Greater than 100 mph	Elite female golfer	Driver calculates total distance, all other clubs calculate carry distance
G5	Less than 100 mph	Female/ junior golfer	Carry distance calculated for all wedges, 7, 8 and 9 irons. All other clubs calculate total distance.

When the appropriate group number is displayed, press the "Power" button to select the group. The LCD will display REV indicating the final section of programming mode. Press the "Club" or "Power" button and your device's software revision number will appear. The ES12 will automatically exit programming mode after the software revision is displayed. The ES12 is now ready for the practice range!

ES12 — Tracks your golf ball's speed and distance

Smartphone App — Listens, learns and reports

Bluetooth Technology — Audibly announces ball distance recorded from ES12 using smartphone or tablet's speakers

Ernest Sports Application

Download the Ernest Sports App at the Apple App Store™ or on the Android Market™. Search "Ernest Sports" in the app store or click the appropriate link on Ernest Sports' home page at www.ErnestSports.com

To connect the ES12 with a smartphone or tablet (iOS or Android), confirm that the ES12 is powered on and then select "Connect to Device" in the smartphone's Bluetooth settings section (Settings -> General -> Bluetooth).

Activation of the Ernest Sports Smartphone App will be required. The activation number can be found on the activation card provided with your device and is also located on the back of the ES12 device. The activation number is the same as the serial number. From the Ernest Sports Smartphone App's main screen, select "Settings" > "Activate ES12" > Input activation number > select "Activate ES12

Quick Tips

Activation numbers are case sensitive. Ensure the number is is input exactly as shown on the activation card.

If the ES12 is not listed as an option in the smartphone's Bluetooth setting, try these steps:

Ensure that the ES12 is powered on

Ensure the ES12 is within a few feet of the device with which it is attempting to pair

If ES12 is still not detected, power off your smartphone or tablet and power back on

ES12 Basics

Below are the main components of the ES12.

  A. LCD Display

  B. Kickstand

  C. Power Button

  D. Club Selection Button

  E. Blue Protective Boot

Press the "Power" button. The LCD readout located at the top of the ES12 will reflect current club choice.

Note: After 8 minutes of idle time, the ES12 will automatically power off.

Selecting a club

To choose a club, press the Club Selection button on the ES12.

The club selection will be displayed on the LCD panel at the top of the ES12 device.

Continue to press the Club Selection button until the desired club is shown on the LCD panel. Club selection will automatically be updated on the smartphone app through Bluetooth.

Quick Tip: Failing to select the proper club on the ES12 device will result in inaccurate readings. Remember to change the setting each time you change clubs!

Club notations

Code	Club
DRT	Driver Total
3Wd	3 Wood
5Wd	5 Wood
HYB	Hybrid
2Ir	2 Iron
3Ir	3 Iron
4Ir	4 Iron
5Ir	5 Iron
6Ir	6 Iron
7Ir	7 Iron
8Ir	8 Iron
9Ir	9 Iron
PW	Pitching Wedge
GW	Gap Wedge
SW	Sand Wedge
LW	Lob Wedge

ES12 Smartphone App

App Home Screen

▶ Range Data: Start a new ES12 practice session and/or view historical data.

▶ Video Analysis: Record, review and analyze golf swing and view side-by-side comparison.

▶ Scorecard: Keep track of golf round and statistics.

▶ Weather: Review local weather.

▶ Notes: Take notes on range session and/or golf round.

▶ Course Caddy: Stored data from range sessions used to help determine club selection for a specified distance.

▶ Settings: Activate ES12, set up Bluetooth and social networking sites and change from imperial to metric measurement units.

Range Data

New Range Session

Once the ES12 is paired with a smartphone or tablet, sessions will be logged shot by shot. First, name the range session, press "Start Session" and begin range session. Each shot will be recorded (club, ball velocity and distance), and the smartphone app receives instant audible feedback on the distance of ball travel.

Once complete, save range session. You will be given the choice to go to the homepage or to go straight into historical data to view completed session.

Historical Range Data

Review past sessions including...
By Club: View longest, shortest and average distance hit for each individual club.

By Session: Recall range sessions in their entirety. To delete shots, hit the edit session button. Red circles with "-" will appear. Select this button to delete specific shots.

Quick Tip: View range data by club to help with club gapping.

Quick Tip: Delete stray/outlier shots to keep from skewing averages.

Video Analysis

Both single and side by side video – select "load video" to load a video from your photo library. Hit "take new video" to take video from within the app. Once video is compressed and uploaded in the video analyzer, use the slider below the video and the 'previous' and 'next' buttons to go frame by frame through entire swing. Draw lines to analyze your swing by selecting the color desired and then drawing the line on the video with your finger.

▶ Select "Share" to post the frame with and/or without lines on Facebook, Twitter or email.

▶ Select "Save" to save individual frames to your photo library.

▶ Select "Undo" to undo line drawings.

▶ Side by Side – Use the Left/Right toggle to go back and forth between the two videos. All above functions work the same but will only work for the specified frame.

Quick Tip: For best results, use videos taken horizontally.

Quick Tip: For best results, use videos no longer than 30 seconds.

Scorecard

Start New Round – For beginning a new round of golf and/or inputting new courses or course information.

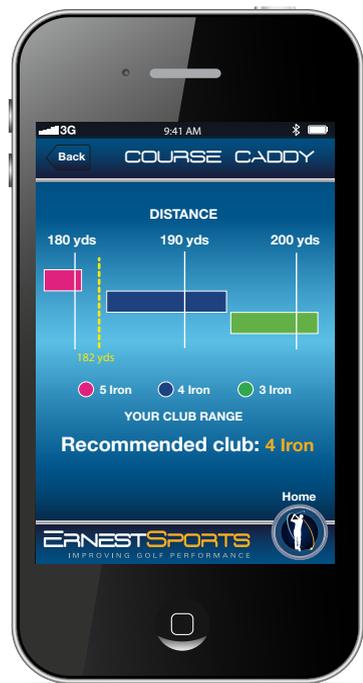View Completed Rounds – To view previously completed golf rounds.

Setup and use a new scorecard

• Select "Start New Round"
• If course information has been previously entered, choose course from list. The Ritz-Carlton Golf course is preloaded)
• Select the "Add/Modify" to add new course
• "Name course, set number of holes and tees and then select "Create New Scorecard
• Enter hole information for each hole (par, distance, handicap)
• "Save Scorecard" to exit with saved course. "Save And Add Player" to continue with use of scorecard
• Select number of players, enter players names
• Start your round!
• During play, enter the number of strokes and putts and check for fairways hit and for GIR (greens in regulation)
• Select "Next Hole" to go from hole to hole
• Select "Full Scorecard" to view standard scorecard front and back 9
• Scorecard can be shared through Facebook, Twitter and/or email from full scorecard mode by selecting the "Share" button

Course Caddy

Enter the distance to the flag and hit "Which Club Do I Use?"

The results will show the 3 clubs in which your average hitting distance with each is closest to the input distance.

The course caddy will make a suggested club selection by using the club where the average distance hit is the CLOSEST to the distance needing for travel.

Quick tips

Quick Tips: You must have data logged for at least 3 clubs to utilize this portion of the app

Quick Tips: For optimum club selection, have a minimum of 5 shots logged for each of your clubs

Quick Tips: Delete stray or outlier shots as described on page 10 to ensure accuracy of performance averages
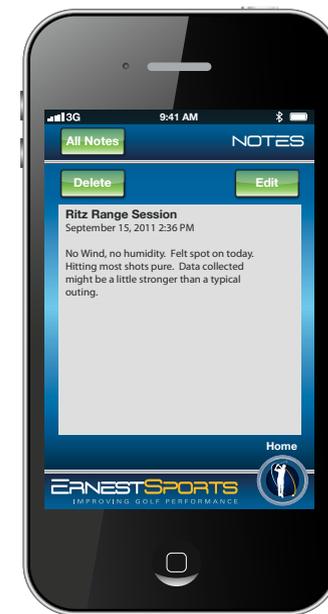
Weather

Simply input your zip code or city and state to find your local weather and view radar.

Notes

Select the "+" button to enter a new note. Select the text "New Untitled Note" to title the note. Note details should be entered below the title area (below the black line). Select "Save" to save the note.

Quick Tip: Note must be titled to be saved.

Settings

Settings section includes the following information and adjustments

• Where to Buy the ES12
• Activate the ES12
• Setup Bluetooth
• Setup Twitter
• Setup Facebook
• About the ES12
• Terms & Conditions

For assistance with either the ES12 or the Ernest Sports smartphone application, please email customercare@ernestsport.com or call 1.855.354.GOLF.

Ernest Sports Worldwide Headquarters

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Changing the battery

When battery is low, the ES12's LCD screen will display BATT. The ES12 operates on a standard 9V battery. Once battery is low, a battery indicator light will appear on the LCD screen.

To change the battery:

• Remove the blue protective boot by placing your thumbs at the top corners with the device facing towards you.
• Using one thumb on each corner, remove the cover by gently rolling the cover off the top corners
• Once cover is off, remove the battery panel on the back of the unit.
• Unsnap existing battery and snap in new battery following the indicators as marked.
• Replace the battery panel and blue protective boot, making sure the front panel is visible and the LCD screen if facing upwards.

Quick Tip: Using the ES12 with a weak battery may result in inaccurate readings.

Warranty

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