

# *Sonocaddie XV2*

## Golf GPS



# User's Guide

**Sonostar Inc.**

V 2.3 I

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## Welcome

Welcome to the Sonocaddie guide. This guide has been designed to provide you with everything you need to know on how to operate your Sonocaddie. Please read the user's guide thoroughly in order to understand the features of the Sonocaddie.

## Warnings

Please read the guidelines below, since failure to do so may result in misuse of the equipment and may be dangerous or illegal.

**The Global Positioning System (GPS) is operated by the government of the United States, which is solely responsible for its accuracy and maintenance. The system is subject to changes which could affect the accuracy and performance of all GPS equipment.**

### ● Operating

- **Sonocaddie may take at least 10~15 minutes in order to receive satellite signals the first time you turn it on. It may take longer to receive signals if it has been off for 4 or more hours, or if you traveled more than 100 miles away from the last location where you used your Sonocaddie.**
- **Sonocaddie performs best under clear sky. Furthermore, 6 satellite signals should be sought, it might be necessary to wait for these to be registered.**
- Should you experience any problems with your Sonocaddie (e.g. malfunction/damage) please contact Sonocaddie Customer Service at [www.Sonocaddie.com](http://www.Sonocaddie.com). Do not attempt any repairs on your own as this may void the warranty.
- The data cable provided is solely for the use of Sonocaddie devices (see the accessory list). Do not connect any other cable for data transfer as this could damage the data port (I/O port).
- Any damage to the warranty sticker under the battery cover may void your warranty rights.

## ● Power

**Sonocaddie does not have a rechargeable function, so do not connect any battery chargers or power supply to it.**

- It is recommended that only Alkaline or rechargeable batteries should be used with Sonocaddie. Do not use any other type of battery.
- If your Sonocaddie is not used for a long period of time, it is recommended to remove the batteries to prevent any leaking.
- Please dispose of batteries according to local regulations (e.g. recycling), do not dispose as household waste.

## Caution

### ● Golf course

- Sonocaddie should not be used while driving any vehicle including golf carts. Always place Sonocaddie in a secure place to avoid any impact which could cause damage to it.
- Coverage/reception levels may be adversely affected by forests and/or buildings. Optimal usage will be gained in wide open areas.
- **Contact with rain or water should be avoided.**

### ● GPS reception

- Sonocaddie has a built-in GPS antenna (see Fig. 1 above the Sonocaddie logo). This antenna should face upward to gain the best signals and should not be covered with anything as this may affect the quality of reception.
- **GPS reception might be affected by the following environmental factors such as rain, dense clouds, fog, solar flares, high voltage electricity, cellular phone towers, etc.**



Fig. 1

# Chapter 1. Introduction

## 1.1 Features



Fig. 1.1

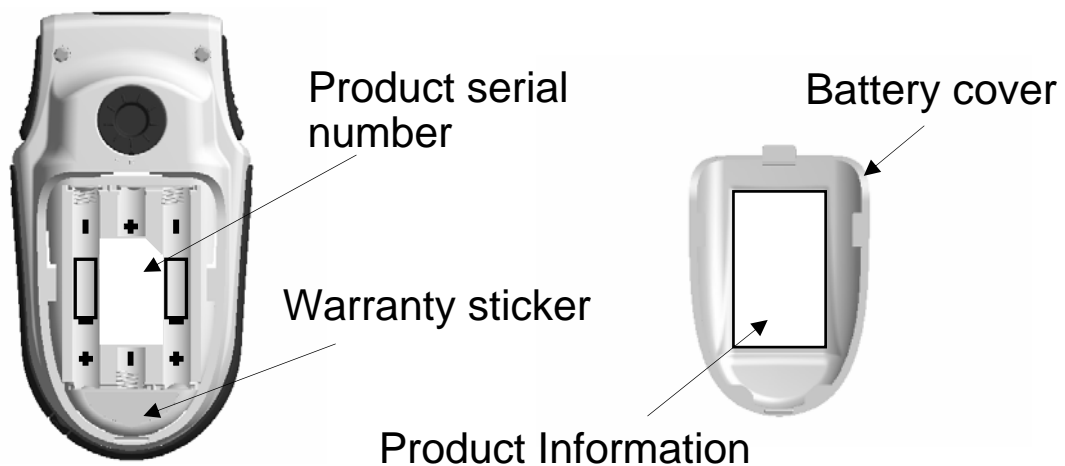


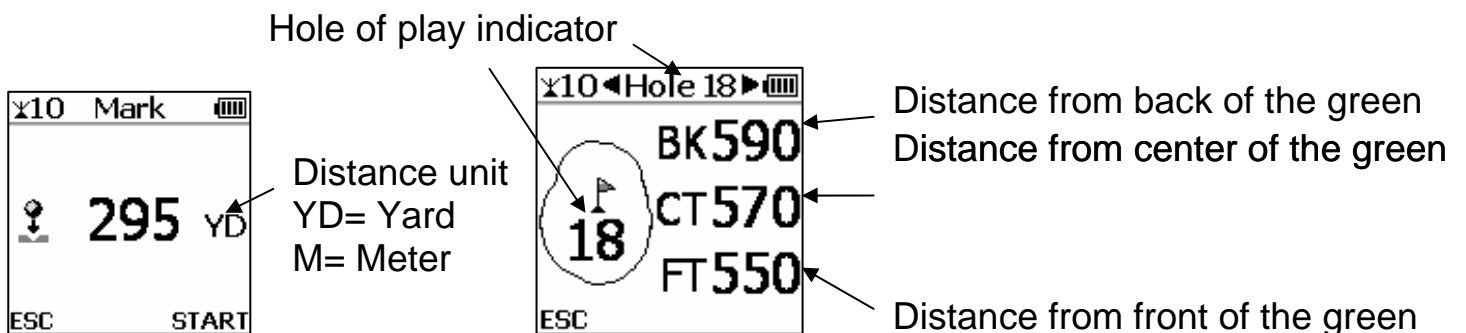
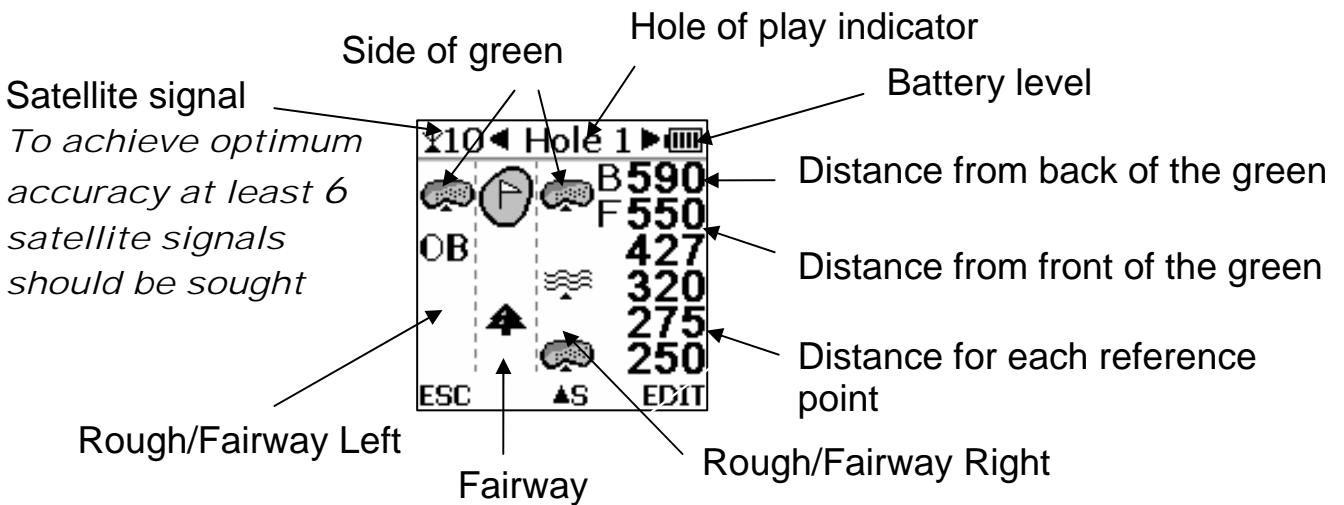
Fig. 1.2






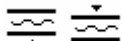







**5-way key**

- 1. Left / -
- 2. Right / +
- 3. Up / +
- 4. Down / -
- 5. Select / Save

**1.2 Display**



## 1.2.1 Symbol Description

Status explanation	Symbol
Green/Front of Green/Back of Green	
Bunker (front/back)	
Water (front/back) (includes major water hazards)	
Creek(front/back) (includes: river, ditch and stream)	
Trap	
Tree (includes: tree, shrubbery and forest)	
Hill	
Lay-up	
Out of Bounds	OB
Mark	
Sonocaddie	
Computer	



## 1.2.2 Status Area

### ➤ Satellite signal

Satellite signal	0~2	3~5	5~6	6~8	8~10	>10
Accuracy	None	Poor	Fair	Good	Very good	Optimal

**Important:** To achieve optimum accuracy it is advised that Sonocaddie performs best under clear sky conditions. Furthermore, 6 satellite signals should be sought, it might be necessary to wait for these to be registered.

### ➤ Battery level

Scale of power		
Conditions	Empty	Full

## Chapter 2. Getting started

### 2.1 Installing batteries

To install the batteries, please follow fig 2.1 as shown below.



Fig 2.1-a

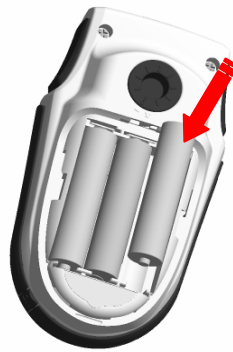


Fig 2.1-b



Fig 2.1-c

Fig 2.1 Press the release button and slide the battery cover down. (Fig 2.1-a)  
Place the batteries in the slots according to the indications in the battery case. (Fig 2.1b)

Replace the battery cover and push back up to original position. (Fig 2.1-c)

### 2.2 Carrying Sonocaddie on the Golf Course

#### 2.2.1 Belt Attachment



1. Place the clip on to your trouser belt.
2. Slide the hook into the clip until you hear a **'clip'** sound.
3. To remove the Sonocaddie, press down the top clip button and slide Sonocaddie upward out of the clip.

## 2.2.2 Other Carrying Options

The clip can also be attached to different things. For example, it can be clipped onto the golf bag. Make sure that the clip has been properly fixed for maximum security.

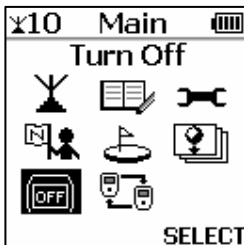



## Chapter 3. Before starting a Game

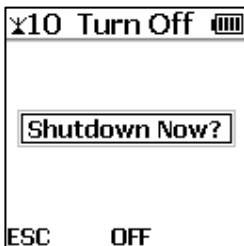
### 3.1 Power On/Off



**Power On:** Press the 'Right soft key' for at least 3 seconds to turn the Sonocaddie on. Player will see a welcome page.



**Power Off:** To switch it off, simply press 'Right soft key' for at least 3 seconds or select  (Turn Off) from the 'Main' menu then press 'Off'.











**Important:** If the Sonocaddie does not turn on, please check the battery condition and remove the batteries, reinstall new batteries, and try again.

Please allow approximately 5~10 minutes when turning the Sonocaddie on to search for GPS signals (make sure to be in an open-sky area).

### 3.2 Main Menu



Use the 5-way key to select 8 functions.

- |   |  |
|---|--|
| 1.  GPS Status | 5.  Course   |
| 2.  Map New    | 6.  Link     |
| 3.  Turn Off   | 7.  Settings |
| 4.  Scorecard  | 8.  Mark     |

### 3.2.1 Settings



There are two selections in Settings.

1. Distance unit
2. LCD contrast

#### 3.2.1.1 Distance Unit



Use the left or right 5-way key to select the preferred distance unit. (**Yard / Meter**). Then press **'Save'** to return to the **'Main'** page.

#### 3.2.1.2 LCD Contrast

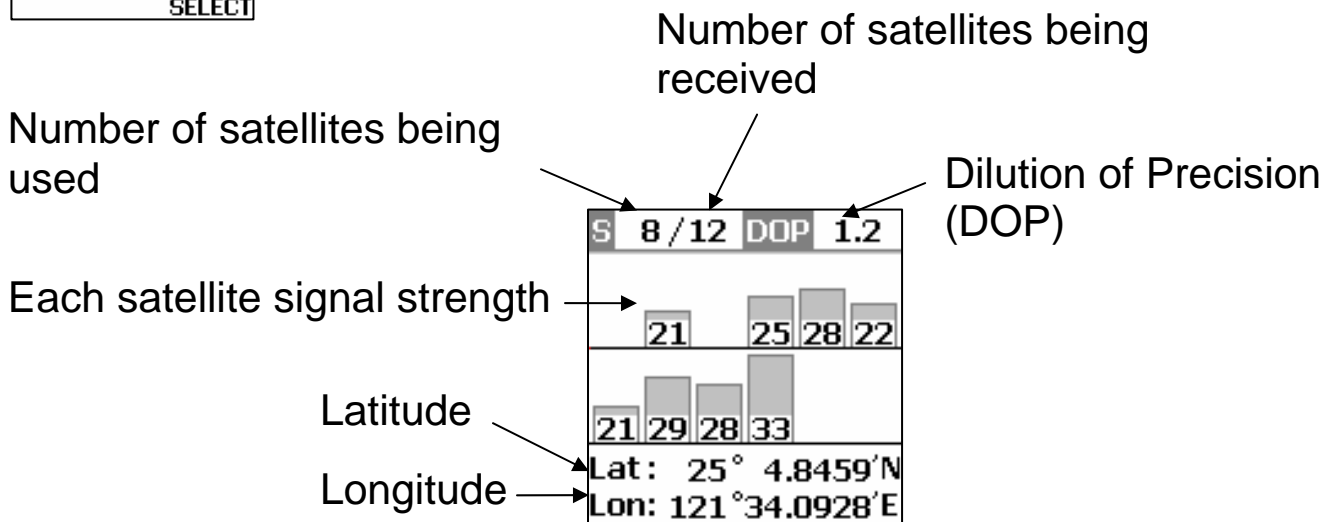


Use the left or right 5-way key to adjust the screen contrast. Then press **'Save'** to return to the **'Main'** page.

### 3.3 GPS Status



Provides the GPS reception information.



Note: Lower DOP numbers provide better accuracy.

**Important: To achieve optimum accuracy please be aware that Sonocaddie performs best under clear sky conditions. Since at least 6 satellite signals should be sought, it might be necessary to wait for these to be registered.**


## Chapter 4. Starting a Game

**Important:** Sonocaddie performs best under clear sky conditions. Since at least 6 satellite signals should be sought, it might be necessary to wait for these to be registered.

### 4.1 New Course

#### 4.1.1 Creating a New Course



Select  'Course'. All available golf courses will be listed in alphabetical order.

Press 'More' from the 'Course' page and select 'New'.



Key in the course name. Once keyed in completely, press 'Save', then the new course shows up. Now press 'More', then 'Play'.

#### 4.1.2 Map New



Another quick way of creating a new course is to select 'Map New' from 'Main' page.



Key in the course name and then press 'Save' to play a game directly.

**Important:** Users can save up to 20 courses into Sonocaddie.

### 4.1.3 Select a Hole

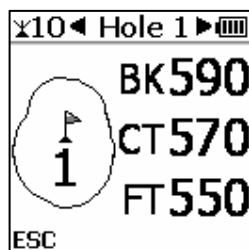
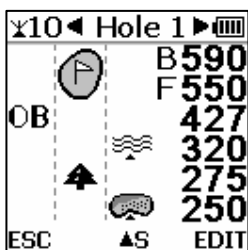


Select a hole to play. Use the left or right key to select a hole and then ‘**Select**’ to play. Handicap or Par can be edited in this page. To edit any information (Hcp, Par), scroll down with the 5-way key and press left or right to adjust the number.



**Hcp:** range between 1 and 18  
**Par:** range between 3 and 6  
**Unit:** Yard or Meter

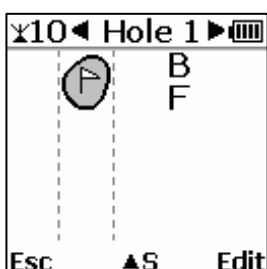
Note: Hcp=Handicap



Player can use left or right key to select different holes in reference page and green view page.

### 4.1.4 Adding New Reference Points

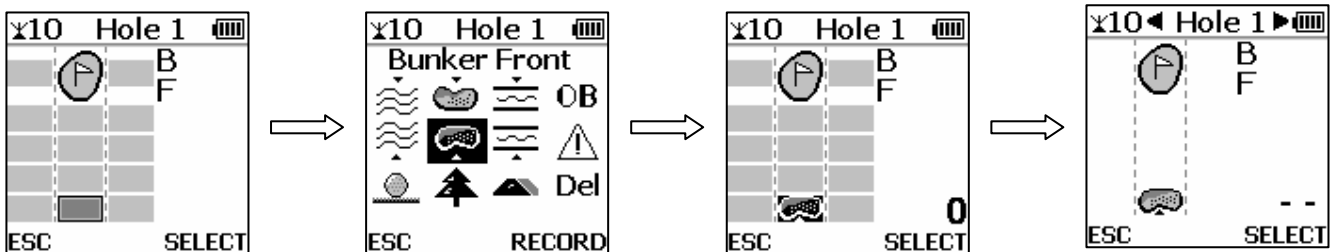
Users can record reference points on the course while playing.



**Important:** To record a reference point player must stand still at the reference point before pressing “Record”. To record the most accurate reference point, stand still for 5 seconds on the reference point before pressing “Record”.

Having pressed ‘**Select**’ to select the starting hole, you will proceed to the full reference points page as shown. To add new reference points, press ‘**Edit**’ (5-way key).

### 4.1.4.1 Reference points on/off fairway



Select the specific location to add your new reference point and press **'Select'** (right soft key). Select a desired reference point from the 12 icons provided, and press **'Record'** to enter (right soft key)

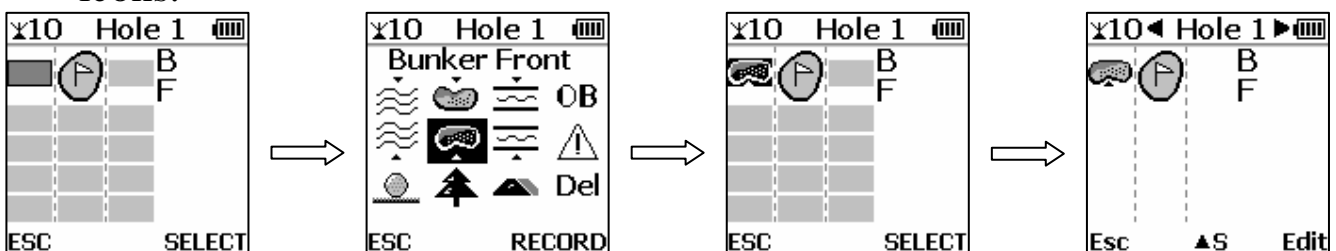
**Important:** Each row only allows one reference point. Maximum of 6 reference points per hole (on/off fairway and next to green) can be recorded. It is suggested that each reference point should be recorded based on the order of course features for that hole.

All reference points' distance will disappear when standing within 5 yards.

To record a reference point the player must stand still at the reference point before pressing **"Record"**.

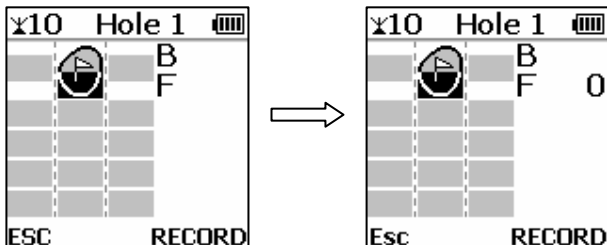
### 4.1.4.2 Reference points next to Green

To add icons to the side of the green, (for example, add a bunker to the left of the green) press **'Select'** (right soft key) and then choose from the 12 icons.



**Important:** These two reference points do not provide any distance yardage.

## 4.1.5 Reference Points on Green

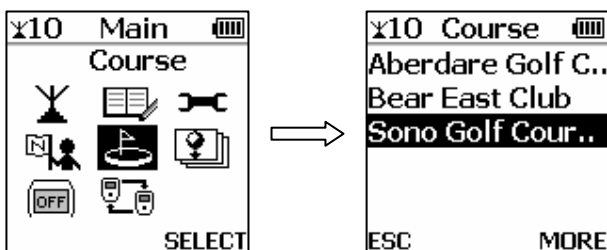


To add Green reference points, select the Green front or back and press **'Record'** to record the coordinates.

**Important:** To record the Green front reference point, the player must stand still at the front edge of the green before pressing "Record". To record the Green back reference point, the player must stand still at the back edge of the green before pressing "Record".

## 4.2 Existing Courses

### 4.2.1 Select a Course



Select **'Course'** from the **'Main'** menu and select the appropriate course from the list using the 5-way key.



### Play

Press **'More'** (right soft key) and select **'Play'**. The course information page will pop up.



### Course Information

The page provides the full course name information and the number of the green and non-green reference points which have been recorded. To play this course then press **'Play'** (right soft key) to go to the hole selection page.

### To Delete a Course



Press 'More' (right soft key) and select 'Delete' from the pop-up list using the 5-way key. To delete, press 'Delete' (right soft key) to confirm or 'Esc' (left soft key) to go back. Once 'Delete' is selected the course information and all reference points will be deleted.



### To Rename a Course

Press 'More' (right soft key) and select 'Rename' from the pop-up list using the 5-way key. To rename, use the 5-way key to edit the name.

## 4.2.2 Select Hole Information



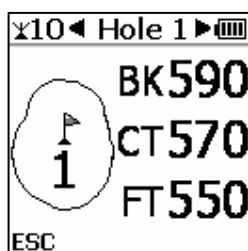
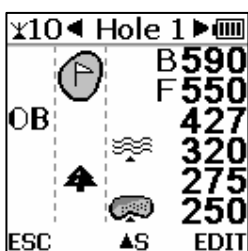
Select a hole to play. Use left or right key to select a hole and then 'Select' to play. Handicap or Par can be edited in this page. To edit any information (Hcp, Par), scroll down with the 5-way key and press left or right to adjust the number.

**Hcp:** range between 1 and 18

**Par:** range between 3 and 6

**Unit:** Yard or Meter

Note: Hcp=Handicap

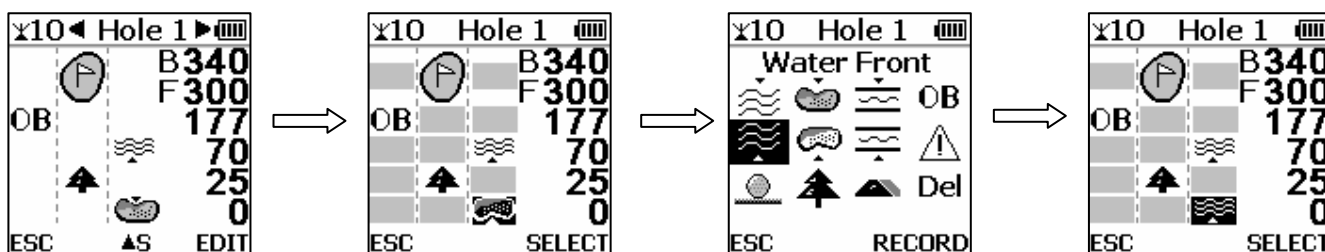


Player can use left or right key to select different holes in reference page and green view page.

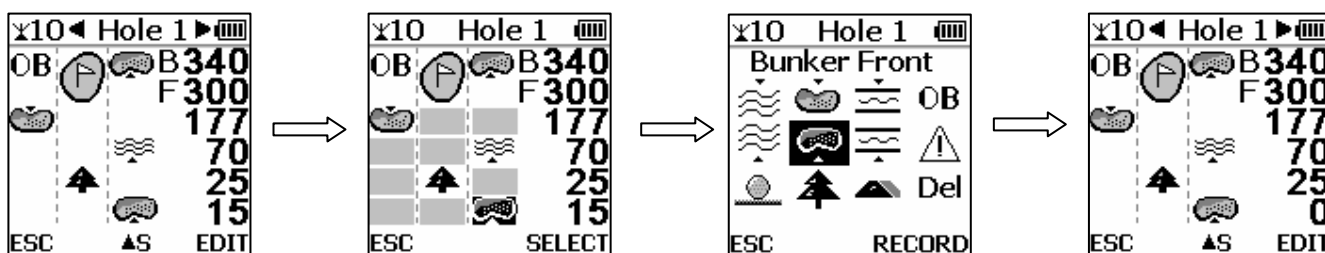
### 4.2.3 Editing Reference Points

Players can edit reference points according to their preference while playing on the course.

If the icon on the screen of the actual course is incorrect and needs to be changed, press **'Edit'** and choose the particular reference point icon that requires editing. Then press **'Select'** and choose one icon from the icon page. Press **'Record'**. The icon is now changed to the new icon.



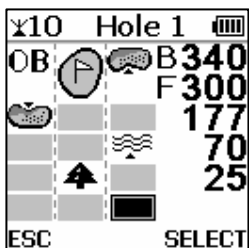
If the Sonocaddie shows an incorrect distance to the course feature, users can update the new coordinates by pressing **'Edit'** and choosing the particular reference point icon that requires updating. Press **'Select'** to go to the icon page. Highlight the same icon on the icon page, and press **'Record'**. The distance is now corrected permanently.



**Important: To record a reference point the player must stand still at the reference point before pressing 'Record'**

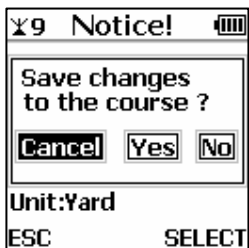
## 4.2.4 Deleting Reference Points

Press **'Edit'** and then highlight the particular reference point icon that requires erasing by using the 5-way key. Press **'Select'** to go to the icon page. Highlight the **'Del'** icon and press **'Record'** ' The reference point is now deleted.



Once erased, the previous reference point icon and yardage distance will disappear from the screen. (Note: the same procedure should be followed to erase reference point icons on both sides of green)

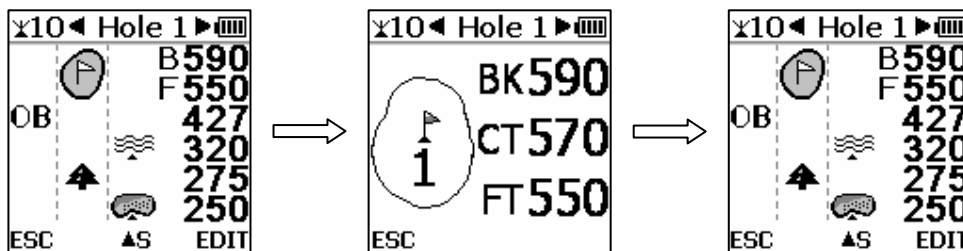
## 4.3 Saving Changes to the Course



Before powering off the Sonocaddie or exiting the course the user will be prompted with a dialog box whether or not to save the changes. User can select **'Yes'** or **'No'** or **'Cancel'**.

## 4.4 Green View Function

At any time during play, users can press the 'Green View Button' to get a close-up view of the putting green. Press the 'Green View Button' again to go back to the previous page.



**Important: Green View function will be activated only after selecting a course and a hole.**

## 4.5 Mark Function

The Mark function is used to measure distance of each shot. After hitting a shot, press the 'Start' button and proceed to the ball. The distance figure stops after pressing 'End'. The display then shows the distance of the actual shot.

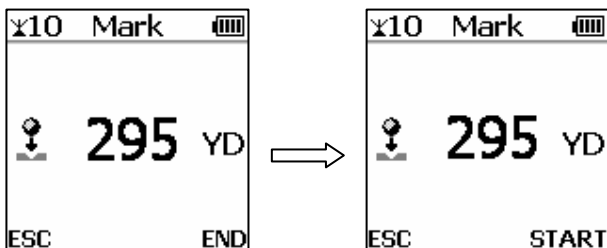
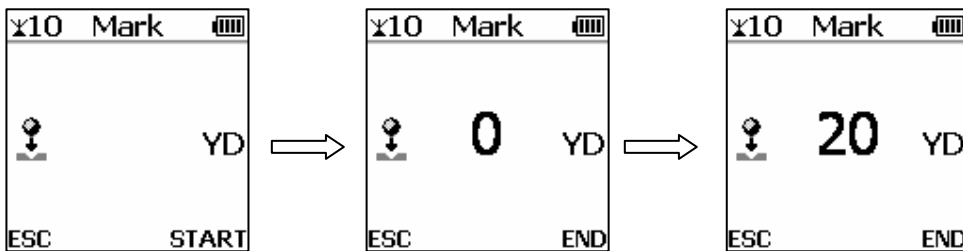
Note: The user does not have to travel in a straight line to the ball. The distance shown on the display is always the straight line distance from where the 'Start' button was pressed.

The Mark Function can be used anytime, except when the 'Green View' function is activated. This can be done in two ways:

1. Press 'Mark' button (Left side key) directly.
2. Select Mark Function icon on the 'Main' page.

**Important: This function can only be activated when there is GPS reception.**

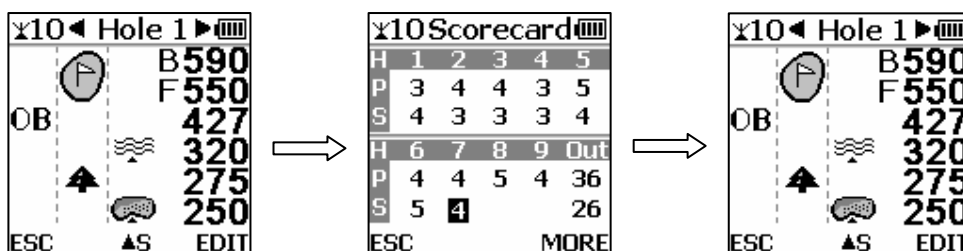
To begin, press **'Start'** (right soft key) at the point from where the shot is taken. The screen will show **'0'** on the display. When the player moves toward the ball position, the yardage number will increase according to your location.



Once reaching the ball position, the the distance of the shot is shown. Pressing **'End'** (right soft key) locks in the number until **'Start'** is pressed again.

## 4.6 Digital Scorecard Function

To use the **'Digital Scorecard'** feature, the user can select the **'Scorecard'** icon from the main menu or from the **'Hole Overview'** page by pressing the **'up'** key. To enter scores use the 5-way key to edit. (Left/Right selects the hole, Up /Down enters the scores). Once the scores for the 9 holes have been entered, Sonocaddie will automatically calculate the total of the scores for the first 9 holes. To go to the next 9 holes, continue pressing the Left/Right key until they appear on the display. By pressing **'More'**, then **'Save'** or pressing **'Esc'**, the **'Hole Overview'** page returns.



X10 Scorecard					
H	1	2	3	4	5
P	3	4	4	3	5
S	4	3	3	3	4
H	6	7	8	9	Out
P	4	4	5	4	36
S	5	4			
ESC					

To clear all 18 holes' scores from the scorecard select **'More'**, then select **'Clear'**

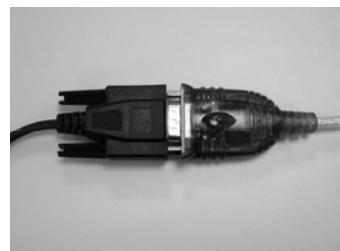
H: Hole  
P: Par  
S: Score

**Important: Scorecard scores will be saved for that course until the user clears the score or deletes the course.**

To go to the next hole the user can enter the score, then select the next hole by pressing the right '>' key of the 5-way key to select. Then press the 'Esc' key to go back to the 'Hole Overview' page.

## 4.7 Linking Sonocaddie to other Devices


### 4.7.1 Sonocaddie to Personal Computer

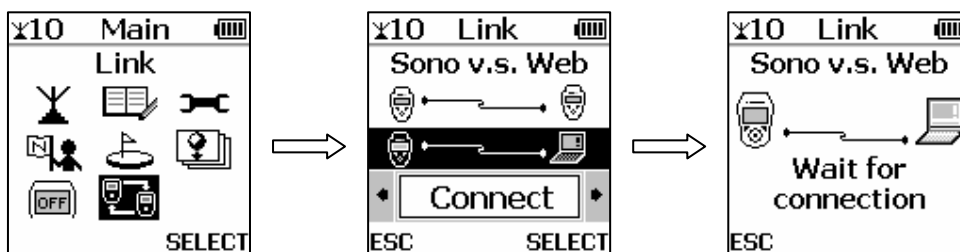


(Data link by Sono-to-PC Data Cable)

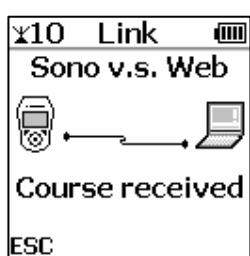
1. Connect Sonocaddie and the computer with the data cable or USB converter provided before transmission.

**Important:** See enclosed instructions regarding using the data cable(s) to connect the Sonocaddie with the personal computer.

**2.Sonocaddie:** To prepare for transmission, select  'Link' from the 'Main' menu then select 'Sono V.S. Web'. Press 'Select' on the Connect page, and standby for either downloading or uploading course data. Users should not operate the Sonocaddie during the download/upload transmission until the process is completed.



**3. Computer:** Access the website [www.sonocaddie.com](http://www.sonocaddie.com). You will see a log in feature. Enter your email address and choose a password to log in. Next, select 'Course', and navigate to the golf course you want to download, and follow the instructions for either downloading or uploading.



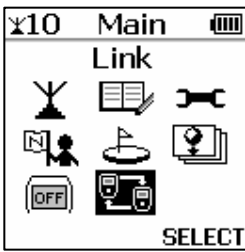
**4.Sonocaddie:** After completing the downloading/uploading press 'Esc' to go to the previous page or stay at the same page to receive more course data.


If you need assistance downloading a course or should you have any other issues please contact Sonocaddie authorized dealer though Sonocaddie website [www.sonocaddie.com](http://www.sonocaddie.com) in your area for support.

## 4.7.2 Sonocaddie to Sonocaddie



(Data link by Sono-to-Sono Data Cable)



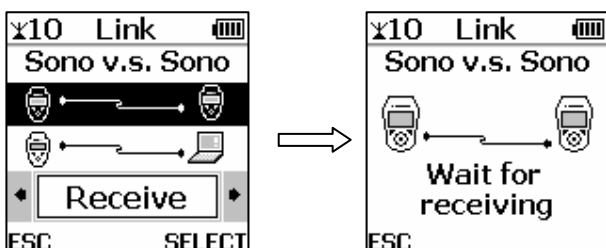
Connect both Sonocaddies with a data cable. Select  'Link' from the 'Main' menu on both Sonocaddies. In the following example, course data is being transferred from Sonocaddie A to Sonocaddie B.

### Step 1. Before Transmission

**For Sonocaddie A:** Select "Sono V.S. Sono" and choose 'Send'. Then press 'Select' to select the golf course.

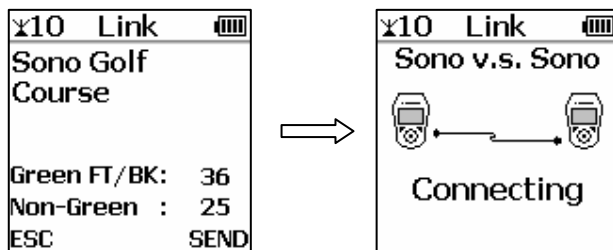


**For Sonocaddie B:** Select "Sono V.S. Sono" and then 'Receive'. Press 'Select' to go to the receiving page.



## Step 2. Start Transmission

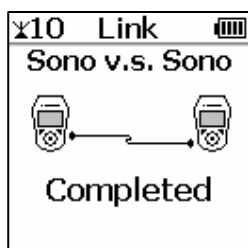
**For Sonocaddie A:** Once the golf course is confirmed, press **'Send'** to proceed and wait a few seconds to complete the process.



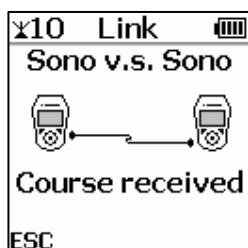
**For Sonocaddie B:** Standby while receiving data.

## Step 3. Complete Transmission

**For Sonocaddie A:** Once the course has been sent the screen will display **'Completed'**. Then press **'Finish'** or **'Esc'** to go back to the **'Link'** selection page.



**For Sonocaddie B:** Press **'Esc'** to go to the previous page or stay at the same page for receiving more course data.



**Important:** Sonocaddie data cables are solely for Sonocaddie devices. Please do not use on any other devices. Please also do not use other similar cables on Sonocaddies.

### 4.7.3 System Requirements

Before you link to your Sonocaddie, note that your computer (desktop or notebook with PC/AT-compatible computer) needs to meet the following system requirements.

- Windows 98/ME/NT/2000/XP
- Microsoft Internet Explorer 6.0 or higher
- 256 MB or higher RAM
- 10 MB or higher of hard disk space
- CD-ROM

# Appendices

## A. Specification

- **Size**
  - H 103mm×W 56mm×T 27.5mm (H 4.05"×W 2.20"×T 1.08")
- **Weight**
  - 85 ± 5g ( 3 ounces) without three AAA batteries
- **Screen**
  - High Resolution Gray Scale LCD
- **Operating temperature**
  - Maximum 70 ° C / 158 ° F
  - Minimum -15 ° C / 5 ° F
- **Storage temperature**
  - Maximum 80 ° C / 176 ° F
  - Minimum -30 ° C / -22 ° F
- **Power**
  - Up to 16 hrs in normal operation
  - Three 1.5-volt AAA alkaline or re-chargeable batteries
- **Acquisition Rate**
  - Cold start: Approx 10~15minutes
- **Accuracy**
  - 3 Meters CEP (50%), 7 Meters CEP (90%) horizontal, SA off
- **Storage**
  - Up to 20 courses with standard specification
- **Transmission**
  - RS232 for PC interface on these OS: Windows® 98SE, ®ME, ®NT, ®2000 and ®XP.
  - Data cable for PC computer
  - Data cable for Sonocaddie to Sonocaddie
  - USB cable adaptor (Optional)
- **Built-in GPS Receiver**
- **Built-in High Sensitivity GPS Antenna**

## **B. Description Abbreviations**

B/BK = Back

F/FT= Front

CT = Centre

Hcp = Handicap

P = Par

S = Score

H = Hole

YD = Yard

M = Meter

ESC = Escape/ Previous page

S: = GPS satellite

Lat = Latitude

Lon = Longitude

DOP = Dilution of Precision

## **C. FAQs**

### **Q1. Why don't I have GPS reception on my Sonocaddie?**

**A.** In order to receive GPS signals you must be in an open sky area, away from buildings, trees cliffs, etc. The first time you start Sonocaddie in a new area it may take up to 10~15 min. to receive sufficient satellite signals. You may monitor GPS signal reception on the 'GPS Status' screen. Once you receive 6 or more stable satellite signals Sonocaddie will provide very good accuracy.

**Q2. Is any restriction on Sonocaddie usage?**

**A.** Sonocaddie can be used on any outdoor golf courses worldwide but is not recommend for indoor use (e.g. driving range). Sonocaddie uses the global satellite system, GPS, regardless of the weather.

**Q3. How is the driving distance measured?**

**A.** Sonocaddie uses the global satellite system, GPS. Once the stroke has been taken, press 'Start' to record the shot start position. Walk or ride to the landing position of the ball and press 'End'. The distance from the original shot start position to the current position will be calculated and shown on the screen.

**Q4. What if my Sonocaddie cannot detect satellite signals?**

**A.** Please Check if you are away from any buildings (club house), wooded areas or cliffs. If you are in an open area and there is still no signal, check your battery capacity (displayed on the screen). In addition, GPS reception can be affected by high voltage cables, cellular phone towers, dense clouds, fog, smoke, lightning and other bad weather conditions. If these conditions do occur, try moving away from any obstructions and restart your Sonocaddie for another attempt. If the problems are weather related you may not be able to use Sonocaddie or any other Golf GPS on that day.

**Q5. Can I recharge my rechargeable battery through Sonocaddie?**

**A.** Sonocaddie does not facilitate the recharging of batteries. You may use rechargeable batteries, but battery chargers should not be connected to Sonocaddie.

**Q6. Can I connect Sonocaddie to Mac OS?**

**A.** Sonocaddie is not compatible with Apple Mac OS systems.

**Q7. Will I lose my data when the power on Sonocaddie is turned off?**

**A.** Data stored in the Sonocaddie will not be lost unless you edit or erase the data.

**Q8. Why are the distances shown on Sonocaddie incorrect for each hole on this course.**

- A.** Please check the GPS reception on the GPS Status screen at the time to be sure you have at least 6 stable satellite signals. Also check the Settings menu (Wrench icon) to be sure the distance units (yard or meter) are correct.

## **D. Customer Service and Technical Support**

In addition to the above FAQ's please check [www.sonocaddie.com](http://www.sonocaddie.com) 'SUPPORT' page for update FAQ's and Owners Manual revisions.

If you need assistance downloading a course or should you have any other issues please contact Sonocaddie authorized dealer though Sonocaddie website [www.sonocaddie.com](http://www.sonocaddie.com) in your area for support.

# Regulatory Agency Compliance

## Federal Communications Commission (FCC)

*This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.*

**NOTICE** The FCC warns that user modifications of this device without the express approval of Sonostar Inc. could void the user's authority to operate the device.