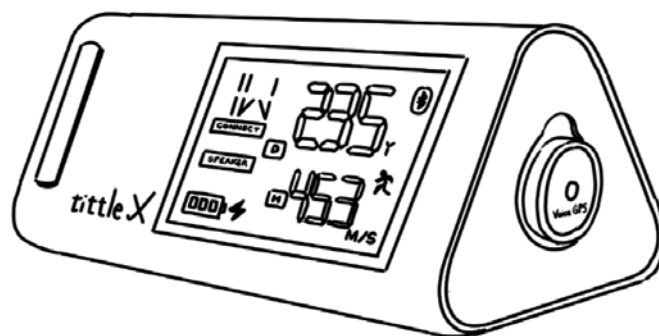




User Manual



SLX-HYBRID X3 / SLX-HYBIR X3 PRO MODEL

User Manual

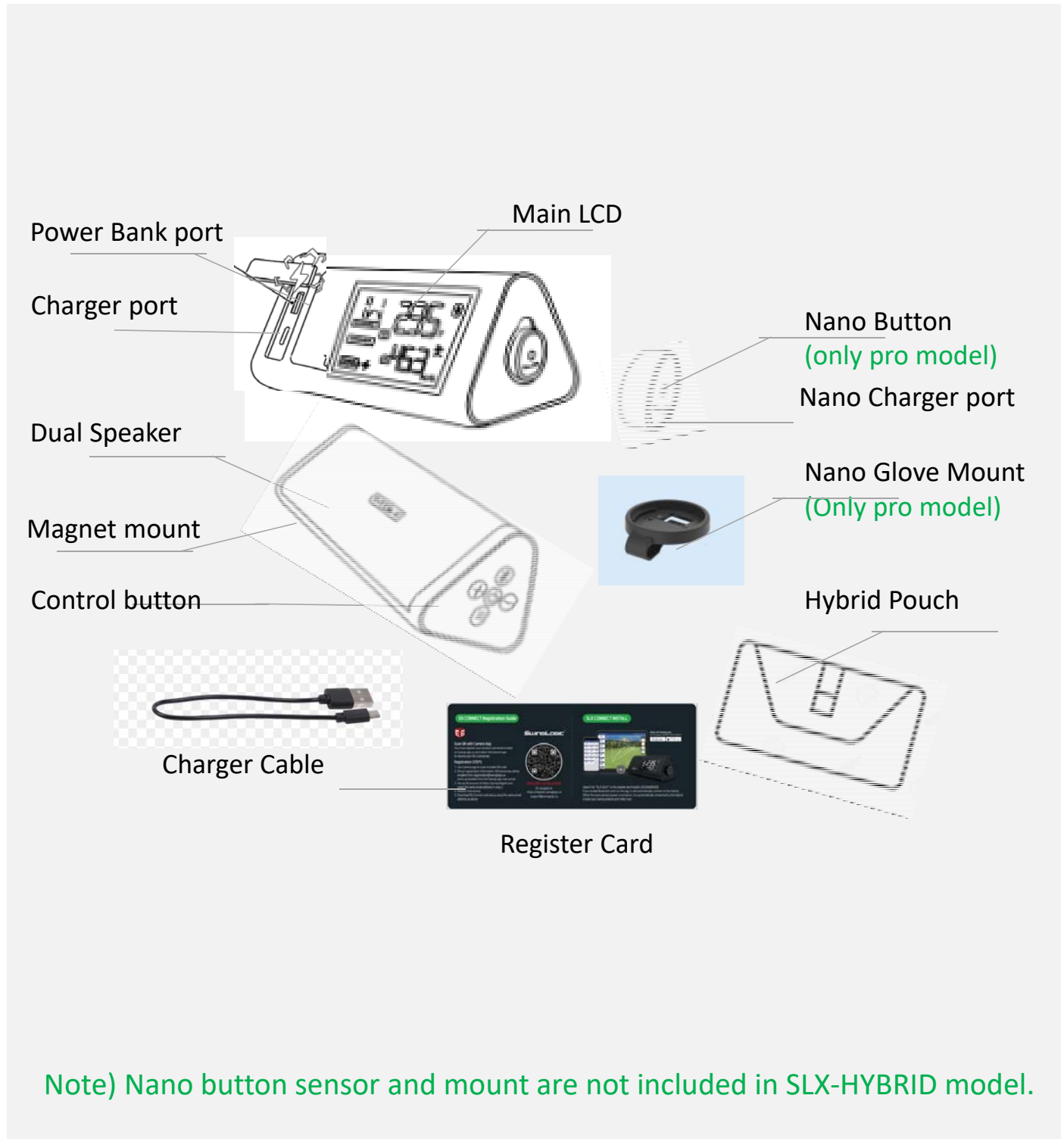
SWING LOGIC VENTURES

INDEX

03	Page	Composition
04	Page	QSG Summary
05	Page	Register Product
06	Page	Using Bluetooth speaker
07	Page	Using Launch monitor
08	Page	Swing detection via multi-sensor
10	Page	Swing with Nano sensor
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21	Page	Calibration at SLX-Connect Setting
22	Page	Using E6 Connect (STEP 1 ~ 11)
28	Page	Troubleshooting
30	Page	Caution and Warning
31	Page	RULES

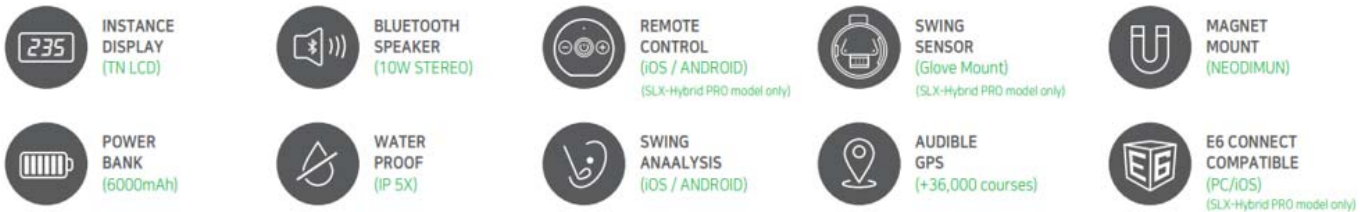
Composition

SLX-HYBRID / SLX-HYBRID PRO model components.
It may be changed depending on some package keys.



QSG Summary

SLX-HYBRID X3 USER MANUAL



Feature List

BLUETOOTH SPEAKER

- 1 Hybrid Power ON
- 2 BLE Button 3sec Press
- 3 “SLX-SPEAKER” Pairing

INSTACE DISPLAY

- 1 Hybrid Power ON
- 2 Display Select (mode)
- 3 Club select (up/down)
- 4 Unit select (pause)
- 5 install 3~4 ft back and swing

ROMOTE CONTROL

- 1 Button Power ON
- 2 UP/DN Press (club)
- 3 Mode Press (display)

*speaker : volume/pause

AUDIBLE GPS

- 1 BLE Speaker paring
- 2 Connect SLX APP
- 3 ROUND MENU Select
- 4 Go to the Tee box
- 5 Click button and Get TTS remaining distance

SWING With SENSOR

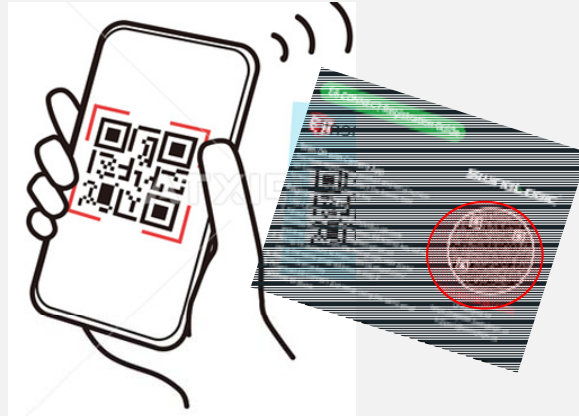
- 1 Nano PW ON
- 2 Connecting Check 
- 3 Glove mount install
- 4 Club select (up/dn)
- 5 Setup(vibration) and Swing

SLX-Connect / E6 Connect APP

- 1 PC/Phone BLE ON
- 2 connect (SLX-HYBIRD)
- 3 Configure/Setting
- 4 Club control
- 5 Using Simulator or Swing Analyzer

Register Product

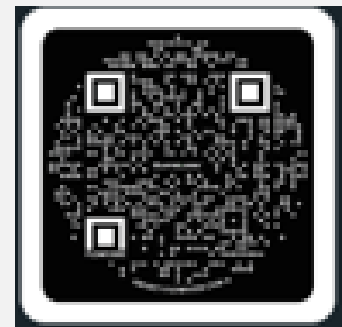
Welcome to SLX. Register your product right away.
After registration, you will receive an E6 Connect license.



Register Card

Scan QR with Camera App

You must register your product and serial number on SwingLogic.us and select the license type to receive your E6 License key



Or navigate to
<https://register.swinglogic.us>

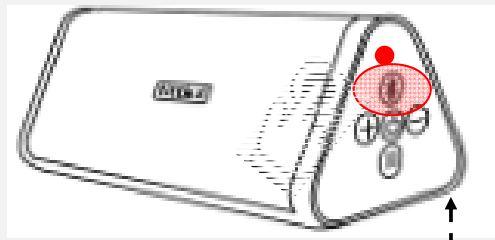
Registration STEPS

Use Camera app to scan included QR code Fill out registration information. E6 license key will be emailed from registration@swinglogic.us and is accessible from the SwingLogic user portal Set up E6 account at <https://portal.e6golf.com/> using the same email address in step 2 Redeem license key Download E6 Connect and setup using the same email address as above

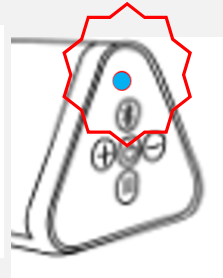
Caution) If you do not register the product, you will not be able to receive a license, and some AS and exchange may be difficult.

Using Bluetooth speaker

SLX-Hybrid features high-quality, high-power dual stereo speakers. For Connection, find the device name **"SLX-SPEAKER"** and pair it.



BLE Button 3 Sec Press



Pairing mode LED (blue color)

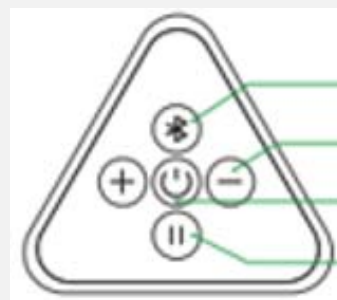


find the device name **"SLX-SPEAKER"** and pair it.

Speaker Connection ICON



Speaker mode LCD



Go Speaker mode
Volumn up/down
Go L. Monitor mode
Pause / Play

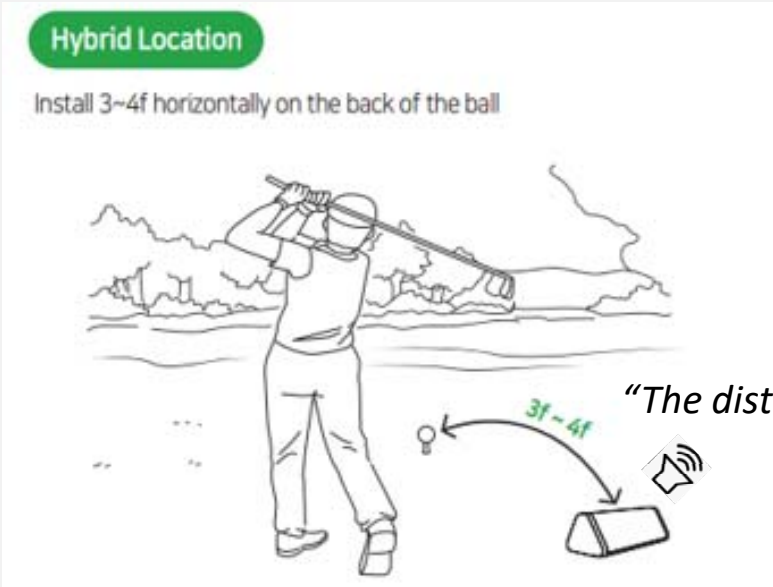
Speaker mode BUTTON

Note) If there is a phone paired once, after that, if the phone is nearby, it will be paired automatically.

Using Launch monitor

You can quickly check the swing result with LCD Display
If using with app, you can listen selected result by voice through TTS.

Club Change
Mode Change
Units Change



Select display mode (by mode button)



Ball Speed
Distance



Distance
Head Speed



Head Speed
Smash Factor



Toggle result

Tips) If you connect the SLX-Connect app, you can check your selected result through voice TTS. (It is better if you use a headset)

Using Launch Monitor

SLX-HYBRID X3 USER MANUAL

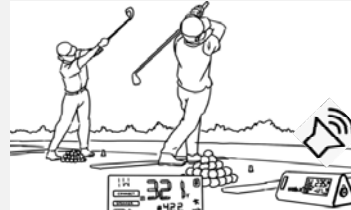
D You can use it by applying it according to various places of use.

Hit Swing (in Range)

Available clubs: Drive ~ 9 iron

Detection sensor: Radar sensor

It is more convenient to connect the SLX app and use it as an earphone through TTS.



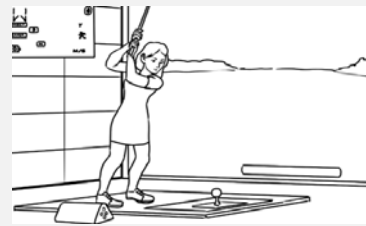
The distance is 245 yards.

Practice Swing (in Simulator booth)

Available clubs: Drive ~ Putter

Radar sensor + Nano Sensor (option)

When using the indoor simulator, you can use it with the Nano to get direction and more swing results.

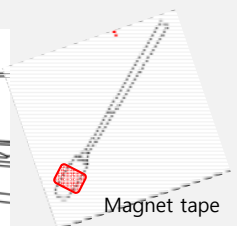


Swing Stick using (in home)

Available clubs: Drive ~ Putter

Radar sensor + Nano Sensor (necessary)

If you use a practice stick indoors, Radar may not be detected. In this case, use the nano sensor together.



Tips) Swing may not be detected for some Swing sticks. In this case, use a nano sensor or if you put a magnetic tape on the head, it will be detected well.

Swing detection via multi-sensor

Swing analysis is possible with a multi-sensor that combines radar and Micro sensor. (Patent technology US patent- 00000000)

It can be used in a variety of ways,
from short-distance putting to real ball striking sensor detection.

Using only Hybrid Radar sensor (Radar Sensor)



When practicing without app in the practice range

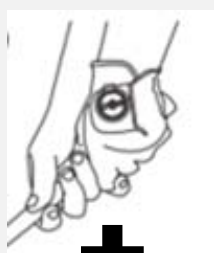
- ✓ Ball speed, head speed detection
- ✓ Putting (head speed) detection
- ✓ Distance, smash factor Calculate

Output data:

Ball Speed, Head Speed, Distance , Smash Facotor

We recommend using up to 9 irons in your hitting swing when using radar only.

Using with nano swing sensor (Radar + Micro Sensor)



When playing golf simulator

- ✓ Practice swing recognition
- ✓ launch direction/tempo detection,
- ✓ head speed verification

Output data:

Launch direction / Face, Path Angle / Side Spin /
Tempo / Swing Type / Swing Score

Note) The Nano sensor is only included in the Hybrid X3 Pro model.

Swing with Nano sensor

If you use a nano sensor, you can get more accurate swing results. Golf gloves are required when swinging using the nano sensor.

Mount the sensor as shown in the figure below and install it vertically in the correct position to increase the accuracy.

If you use nano sensor, you can get more accurate swing results. For accurate use, install it as shown in the figure below.



- ❶ Insert the glove with the hook facing up as shown in the picture.
- ❷ Insert the NANO sensor into the mount, turn it exactly 90 degrees clockwise (USB direction is down)
- ❸ Be well leveled in the setup position
- ❹ Swing within 3 seconds of vibration
- ❺ Raise your wrist up to control the club

Note) Swing recognition may be difficult depending on the golfer's setup posture. In this case, adjust the position of your nano sensor to find the recognized position.

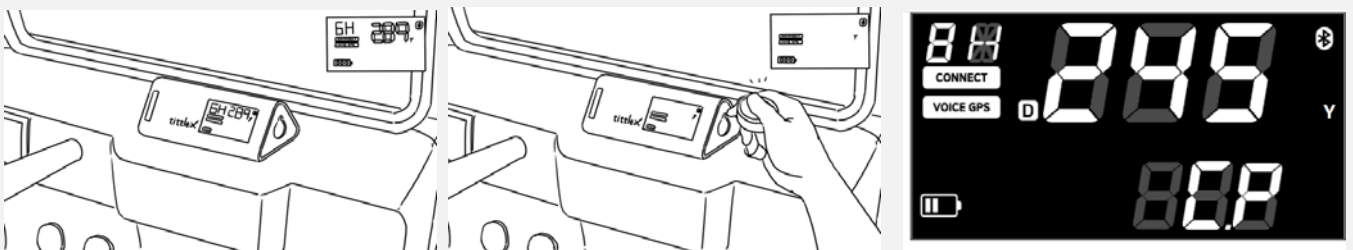
Using audible GPS

Use the audible GPS function using the SLX-Connect app.
You can now easily check the distance from the cart to the pin.

Connect speaker and use the nano button to check the remaining distance

SLX-Connect Run Course Enter Tee Box > Select GPS menu

- 1 Bluetooth Speaker paring
- 2 SLX-Connect Connect
- 3 Select round
- 4 Go the tee box in course
- 5 Click mode button and get distance



The remaining distance to the pin is 245 yards.

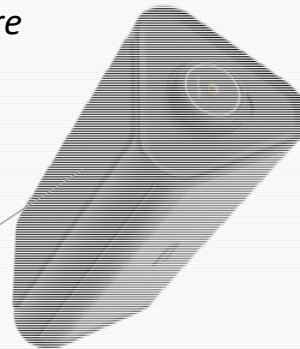
Note) Hybrid device does not have GPS sensor. It is linked using the GPS app.

Using the magnetic mount

Use the magnet included in hybrid bottom to install it on any iron frame of the cart or the hood.

*You can hear good sound quality
without shaking in anywhere*

Neodymium Magnet



Caution) Depending on the location of the magnet, it may fall off due to impact. It is the user's responsibility to exercise caution when driving the cart.

Charging and using Power bank

SLX-HYBRID X3 USER MANUAL

Charge your phone during a round of golf with power bank function

STEP

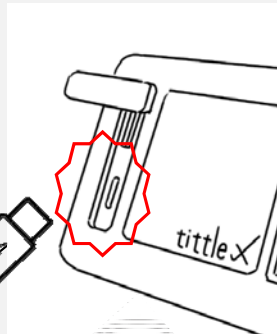
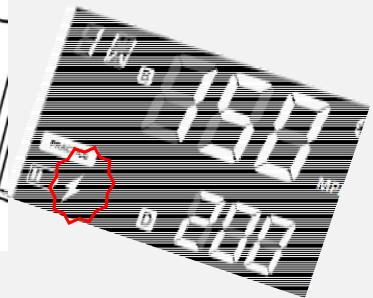
Device Charging

Adapter is not included

Hybrid
5V



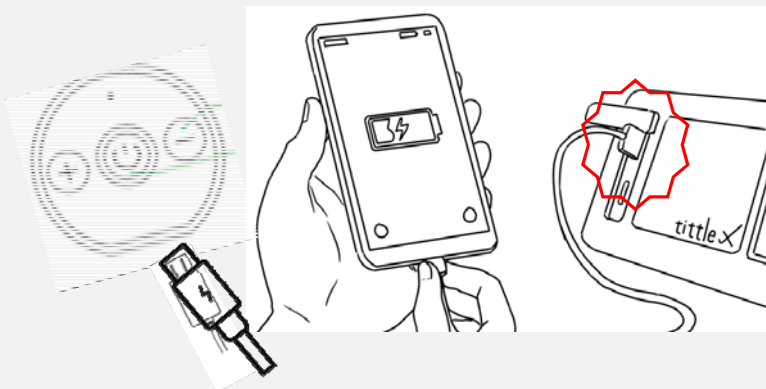
Nano
5V



Caution) It can be charged with USB-C type using a 5V - 1AmH charging adapter. Hybrid charging time 8 hours, Nano charging time 2 hours

Using Power Bank

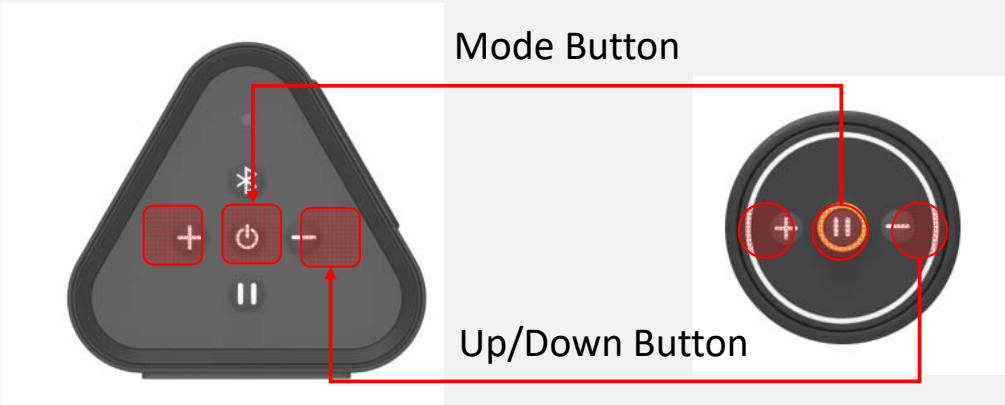
You can charge your phone and Nano button through the USB port. PwerBank max 6000mAh (3.7v standard)



Using the remote button

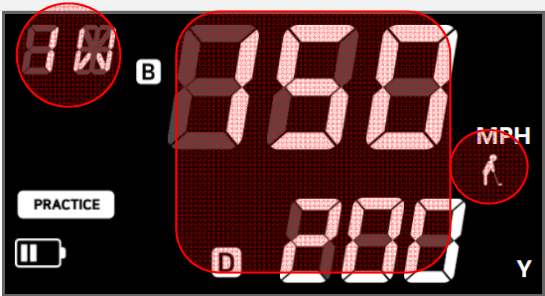
If you use the Remote button provided on the Hybrid Pro Model, you can use it more conveniently. (Only available on Hybrid Pro models)

Button matching



Launch Monitor mode

Up/Down
Club Change



Mode Button
Display change
Connect Check

Audible GPS mode

Up/Down
Hole change



Mode Button
Audio OUT TTS

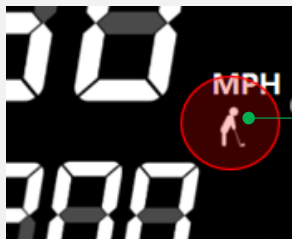


Note) It is recommended that a speaker be connected for Voice GPS output. You need to connect the SLX-CONNECT and enter the course in Play mode.

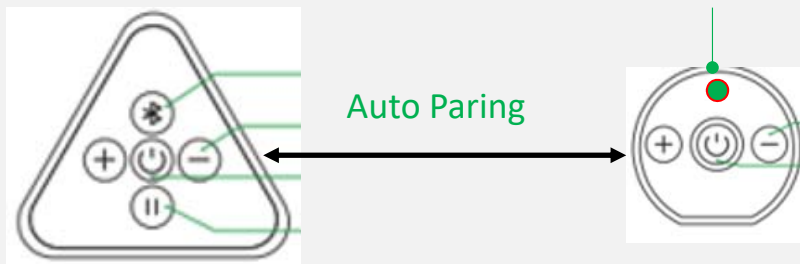
Nano Button new connecting

If new connection is needed due to new connection or replacement of the Nano, you can connect in the following way.

NANO Connect checking



When Hybrid-Nano is connected, the rear swing icon is activated, and the Nano's LED is lit in green.



New Connecting

Press and hold the minus button of Hybrid and Nano for more than 7 seconds to try pairing between new devices. The icon blinks for Hybrid, and blinks blue for Nano



Caution) Hybrid and Nano are connected and shipped from the factory.

LCD Display Guide

Hybrid provides optimal LCD display in various modes.
It can be used more brightly outdoors.

Hybrid LCD

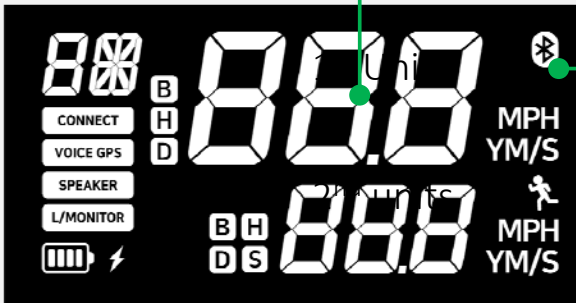
CLUB

First Result /
Second Result

Speaker Connect

Nano Connect
Swing Ready

Simulator App
GPS App
Music App



Battery Charging

B : Ball Speed
H : Head Speed (club Speed)
D : Distance (carry)
S : Smash Factor (Ball/Head)

Voice GPS mode

Speaker mode

Launch Monitor mode

Hole Remaining Distance

Play / Pause



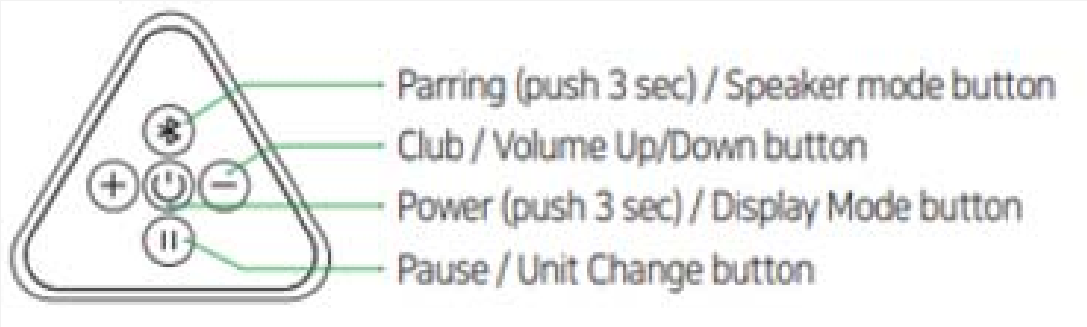
CP : Center Pin
BP : Back Pin
FP : Front Pin

Volume

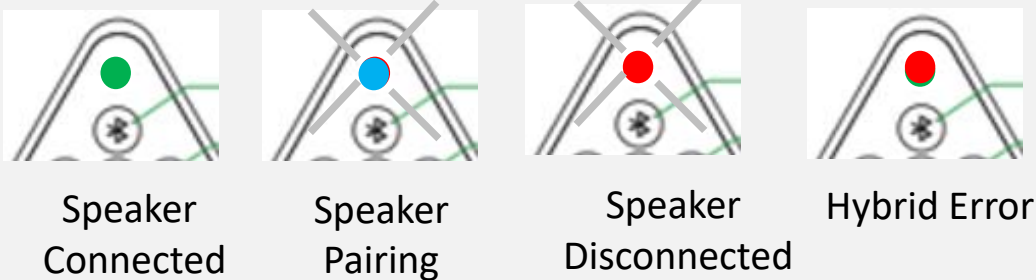
Button and LED Guide

Enjoy the ultra-easy-to-operate buttons and the Nano button with remote control function.

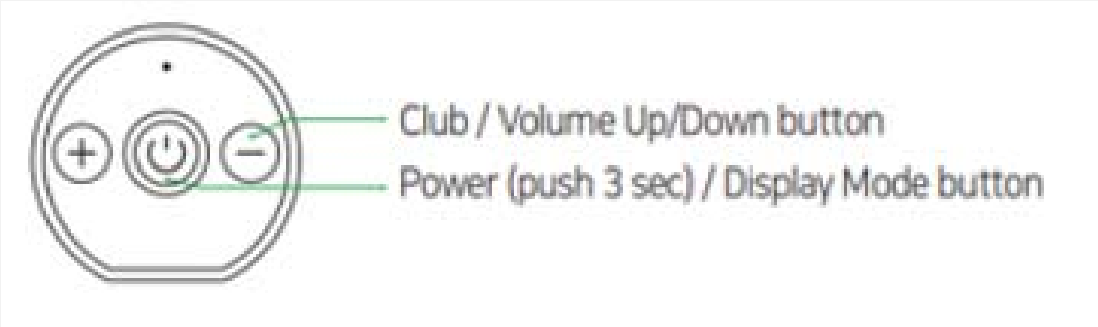
Hybrid Button



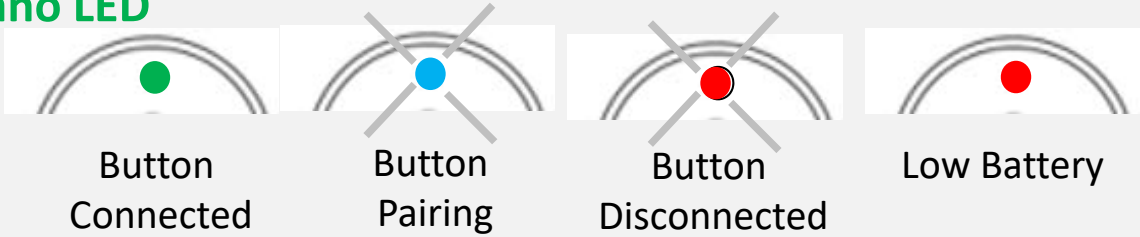
Hybrid LED



Nano Button



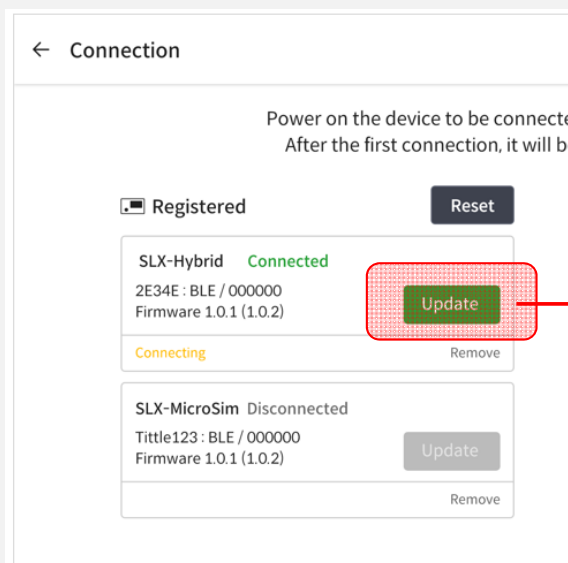
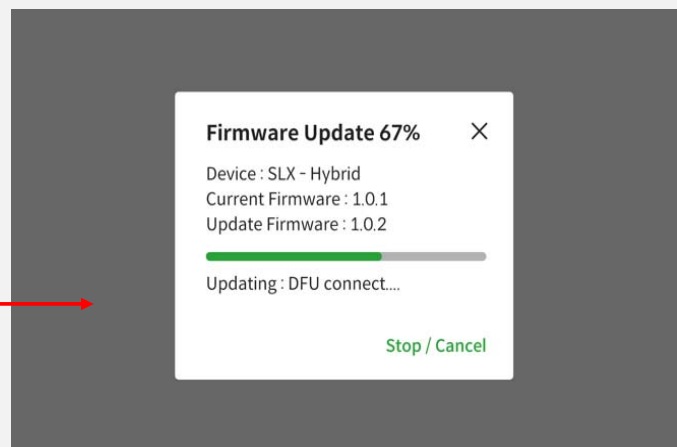
Nano LED



Firmware Update

Connect SLX-CONNECT > Connect menu > Device Select

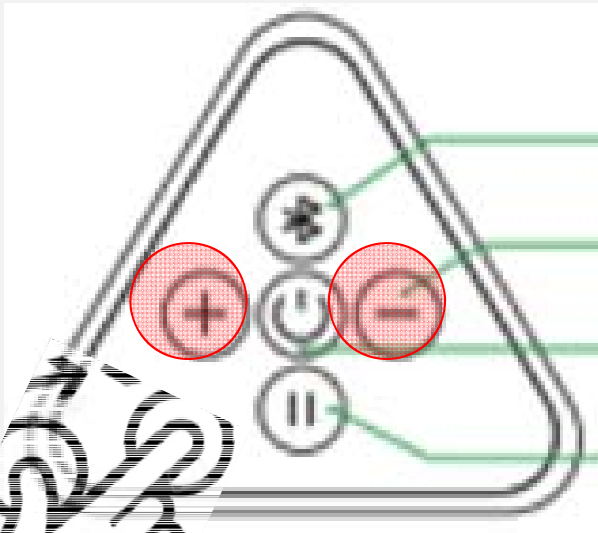
When the firmware of HW is updated, it is activated with a green button.



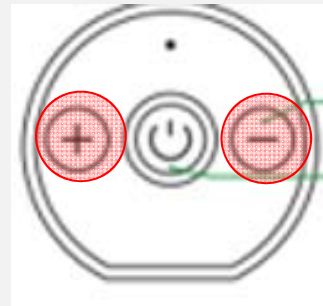
Device Factory Reset

If device is not connected continuously, any button does not work, or is incorrect, you can perform a factory reset through the button.

Press two fingers at the same time the + / - button continuously for more than **7 seconds**.



Hybrid



Nano

Caution) All stored calibration data will be deleted during factory reset.

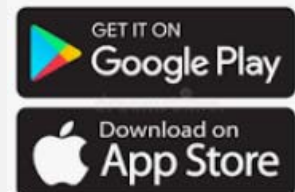
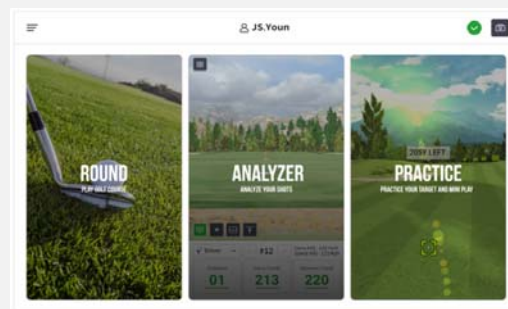
Install SLX-Connect and Using

SLX-HYBRID X3 USER MANUAL

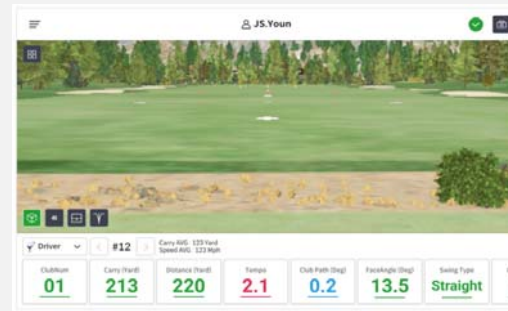
Install the SLX-Connect app. You can use various services such as swing analysis, GPS, swing video, and mini simulator game.

Search “SLX-CONNECT” in app store

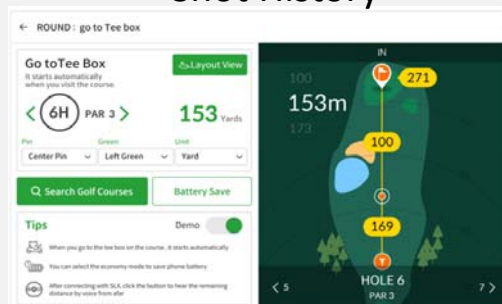
Support OS : IOS/Android/PC compatible ,
Support Device : iPad / Tablet / Phone compatible



Shot History



3D Analyzer menu



GPS Menu



Camera Menu(auto Trigger)

Important!

Calibrate your swing for each club by your shot result through the calibration included in the setting menu (patented technology)

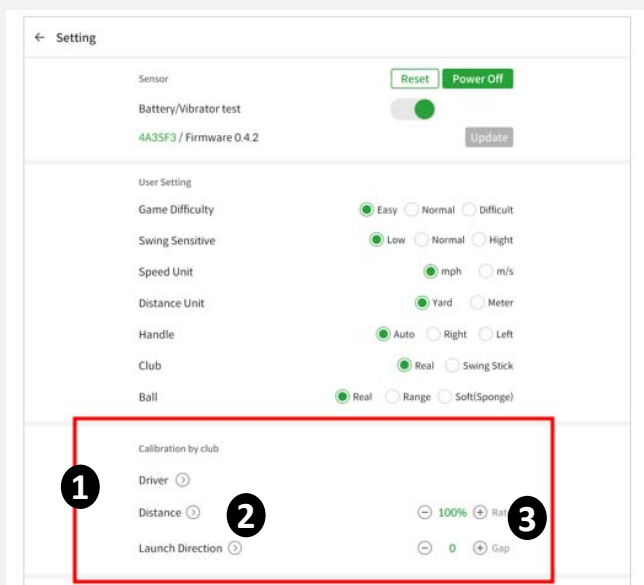
Calibration at SLX-Connect Setting

User calibration can be done according to the customer's swing and club. (Patent technology US patent- 00000000)

Connect SLX-CONNECT > SETTING > CALIBRATION MENU

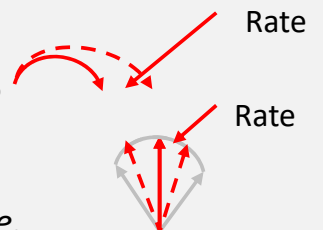
- 1** Club Select **2** Calibration value select **3** Adjustment

If you adjust the results that are different from your swing results for each club, they are saved in the device. You now have the optimal launch monitor for you.



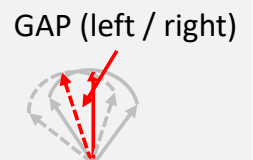
Rate Value

Distance 75% ~ 125%
Ball, Head Speed,
side spin, back spin
Face angle, path angle,
launch angle, direction,



Gap Value

Launch Angle - 10 ~ + 10
Tempo, Face angle,
path angle, launch angle, launch direction



Example) Distance 1.1, Club Path Rate 1.1, Club Path Gap 3

ClubNum	Carry (Yard)	Distance (Yard)	Tempo	Club Path (Deg)
01	213	220	2.1	0.2

ClubNum	Carry (Yard)	Distance (Yard)	Tempo	Club Path (Deg)
01	234	220	2.1	3.22

✓ Rate adjustment:

It can be adjusted from a minimum of 80% to a maximum of 120% in percent.

✓ GAP adjustment :

You can adjust the gap if your straight swings are constantly fading or drawing.

Using E6 Connect

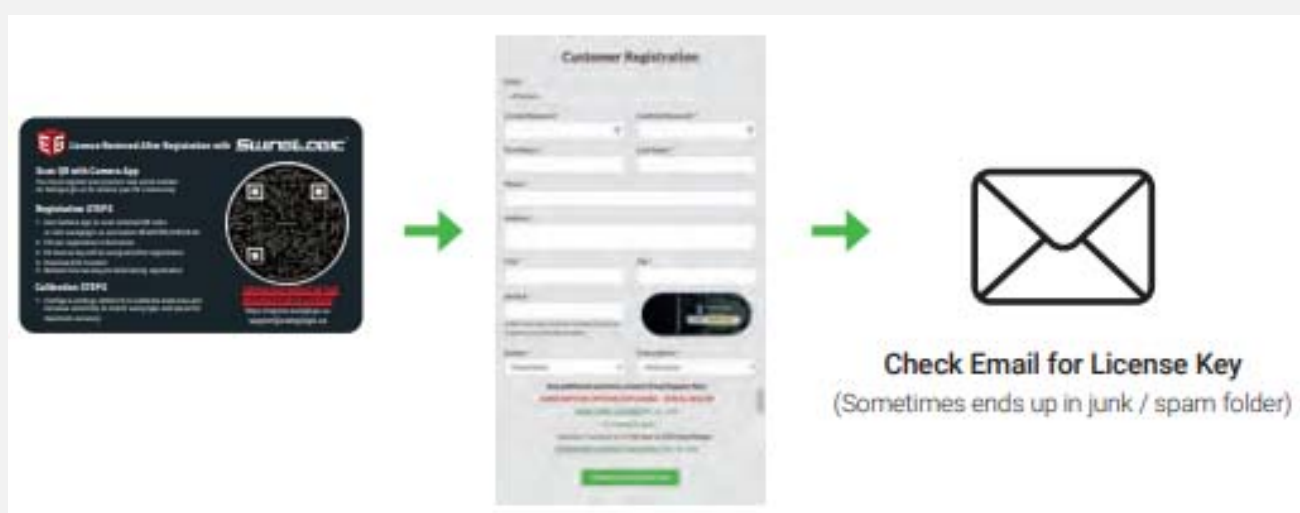
E6 CONNECT software is available.

Please install and connect according to each SETP.

Create an account and register with Swing Logic

STEP 1

Create an account and register with us STEP 1 Find the included Card as depicted below: You can either scan the QR code on your phone's camera or go to : <https://register.swinglogic.us>



LICENSE OPTIONS EXPLAINED (IMPORTANT)

5-Course Option is your FREE License and one version (iOS or PC) is included with Purchase. If you want to UPGRADE to the Expanded Content Subscription @ \$10/mo, that is the and Option DETAILS: Expanded Content Subscription now has ~40 Courses, mini games (darts, closest to pin, battleship...) & Online Play + multiple modes (Regular Stroke Play, captains choice, best ball etc...) Check out our website to learn more about the additional features if this interests you. If you are an avid golfer...\$10/mo for infinite rounds on 40 courses is a pretty good deal

Using E6 Connect

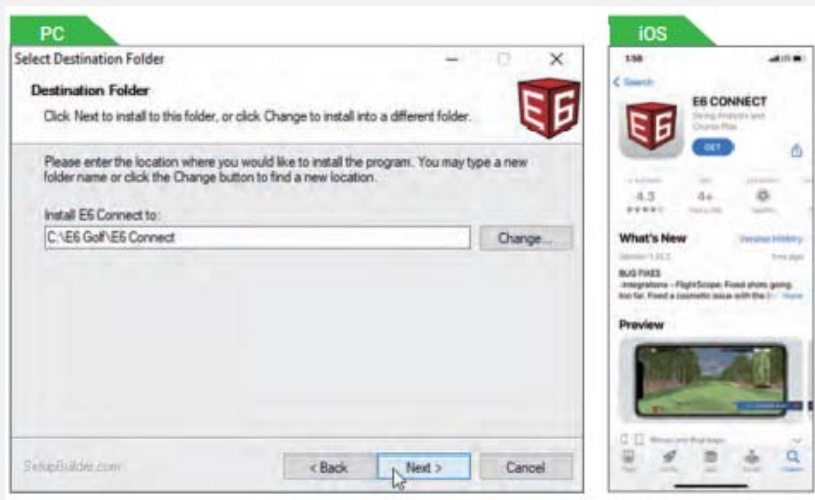
Install E6 CONNEC

STEP 2

After download, Run the program to install the software.

PC Version: <https://portal.e6golf.com/update/e6-connect>

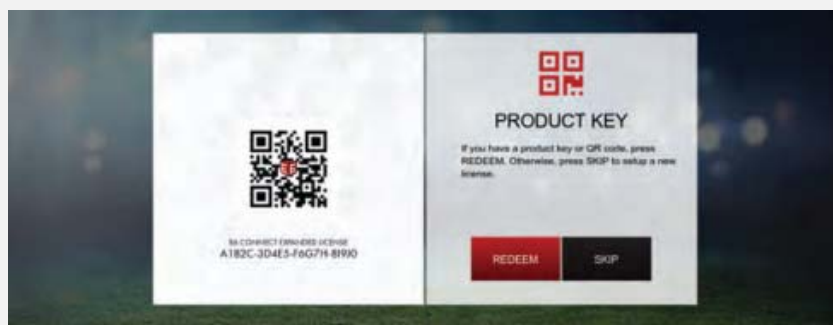
iOS Version: You will need to download the software from the app store. If you search for “E6 CONNECT” then it will pull up and you will be able to download



Start the E6 Application & Redeem your License

STEP 3

If you have a License code, press the REDEEM button to enter the code. If you don't have the code, press SKIP to move on. If you press SKIP, the demo version will be applied by default. You will also be required to setup an E6 Connect Account during this process. Please take note and remember your login credentials



Using E6 Connect

License Activation

STEP 4

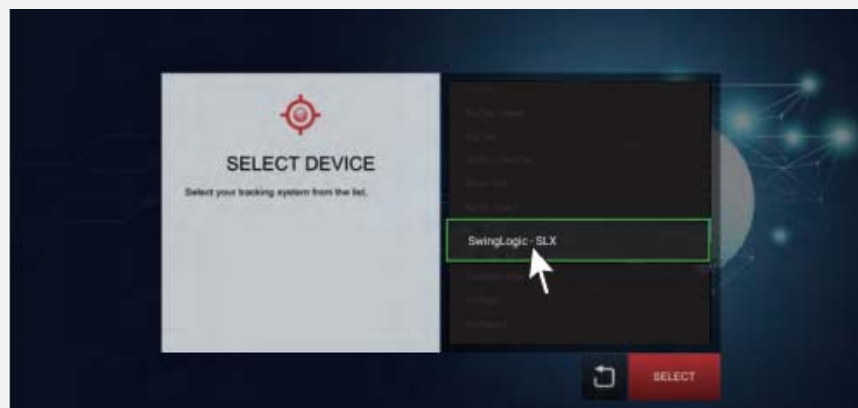
Enter License Key and press the Enter button



Select Tracking System Device

STEP 5

Select **"SwingLogic -SLX "**



NOTE : Depending on the license type you are redeeming, the list of available trackers will be different. If you have redeemed any of the license we have provided, the list will be much shorter and contain only small sensor based products

Using E6 Connect

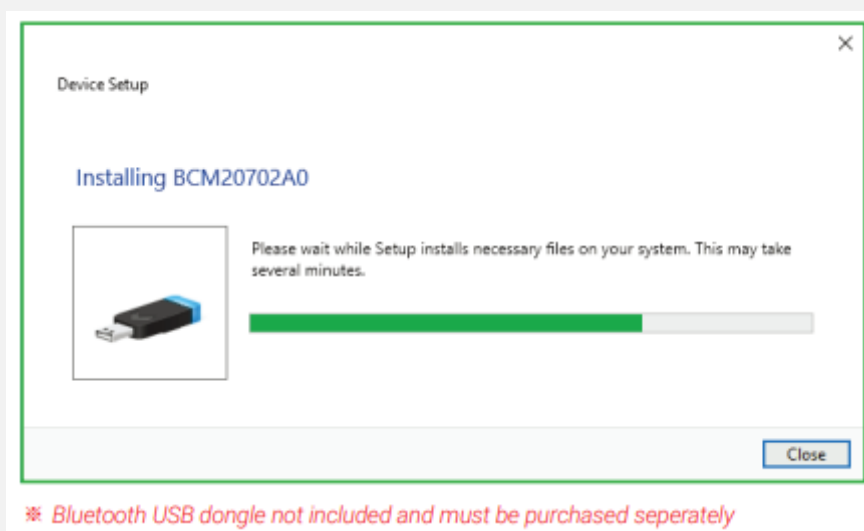
Ensure Bluetooth is on

STEP 6

Go to Settings > Bluetooth and Make sure your Bluetooth is turned on in your PC or iPhone/iPad. For iOS, you need to allow "E6 Connect" in Bluetooth settings.

Important!

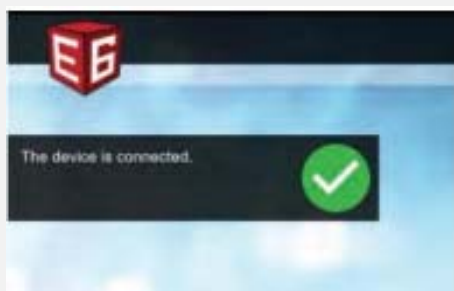
If your PC does not have Bluetooth, you will need to purchase a dongle.



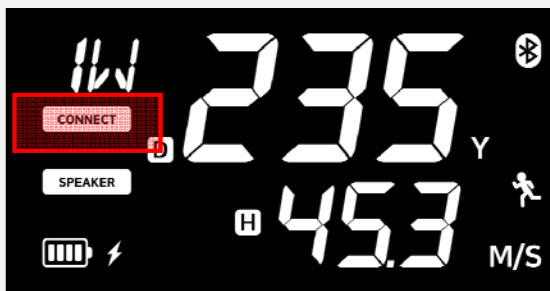
Connect Device with E6 CONNEC

STEP 7

Device will automatically connect to E6 CONNECT. The CONNECT ICON on LCD turns on and you can hear the voice "Device connected". If device is not connected, see Troubleshooting Page



E6 Connect

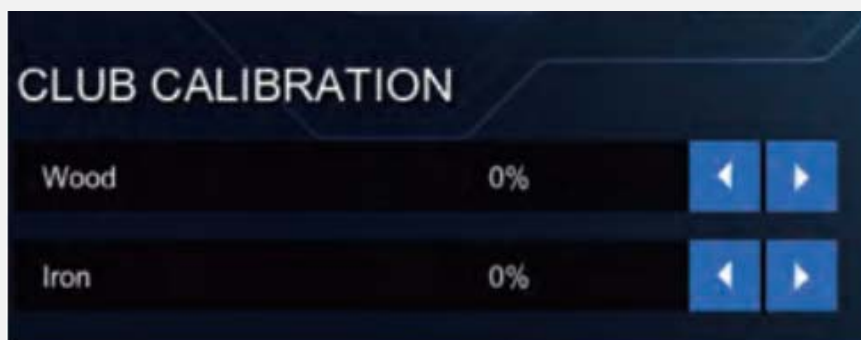


Hybrid LCD

Calibrate sensor Setting - Maximize Accuracy

STEP 8

When inside the application's Main Menu. **Settings→Simulator→Configure**



Important!

Default Settings should be: Difficulty = Normal, Sensitivity = Normal, Woods/Iron/Putter = Your Choice based on type of clubs you will be installing sensor on. It is best to start with 0% distance "boost" to see what your sensor is displaying initially then adjusting up or down based on simulator output vs expected ball flight. You can also increase the altitude in Enviromental Settings to have your ball fly further

Check the swing data on the screen

STEP 9

When you swing, the ball will fly on the screen and Post-Shot dialog is displayed.



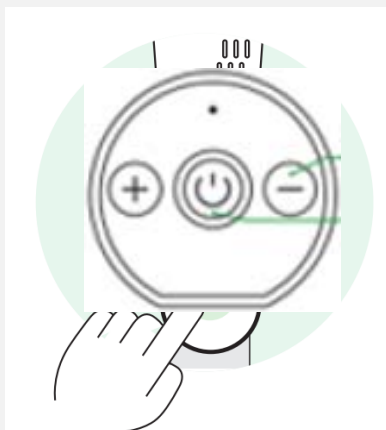
Important!

For more details on E6 Connect, check the "<https://e6golf.com/e6-connect/manual>"

Club selection control

STEP 10

You can change your club selection outside of the E6 Connect Application by click these up and down buttons



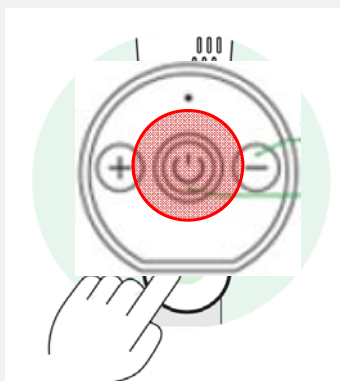
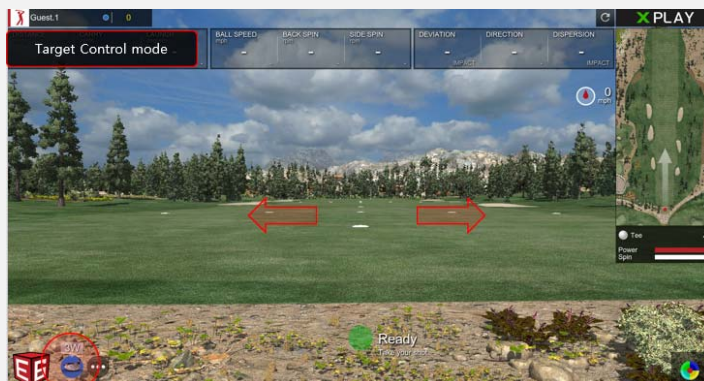
Important!

On the green, it automatically changes to the target direction. (Club side does not work on green)

Target Control

STEP 11

In the fairway / driving range, if you click the mode button once, it will change to "Target Control mode". Afterwards, you can change the target with the up/down buttons. If you click the mode button again, it will change to "Club Control mode".

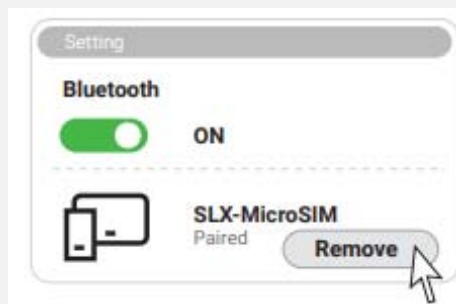


Troubleshooting

Check the latest registered information at swinglogic.us/support. Below is a simple troubleshooting guide.

Connection Troubleshooting

- ✓ If your sensor does not connect to E6 within 30 seconds of starting application
- ✓ Check to ensure Bluetooth is available on your system & turned on.
- ✓ Put on charger for 30min to ensure adequate battery power.
- ✓ Ensure E6 software is closed. Go into your systems bluetooth settings and have your device "Forget" or "Remove" the sensor & then "re-pair" the connection.
- ✓ If you do not have this option, toggle your bluetooth OFF for 10 seconds then back on. Start E6 Connect & wait for "connected"

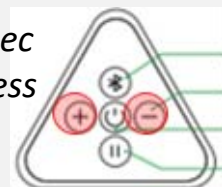


Important! The most common issue with bluetooth connection happens with PC users. Ensuring you have the most current drivers will alleviate complications. Also, some customers on desktop devices assume their PC has bluetooth and it does not. For those in this category you will have to buy a BT dongle.

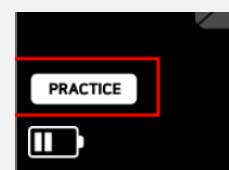
Hybrid does not detect swing.

- ✓ Hybrid may be too far or too close to the ball.
- ✓ Check that the hybrid position is not level
- ✓ If the position is not recognized even if the position is correctly placed, the LED does not show a person indicator
- ✓ if the radar sensor is bad. Try a factory reset. If there is a problem even after factory reset, get AS. **When the radar sensor is bad, the L.MONITOR (PRICTICE) icon flickers or does not appear.**

7 sec
press



factory reset



Check the latest registered information at swinglogic.us/support.
Below is a simple troubleshooting guide.

Replacing and reconnecting the Nano Sensor

- ✓ If the Hybrid and Nano are not connected or if you need to replace the Nano,
- ✓ See the "Nano Sensor Replacement" manual.
- ✓ If you press and hold the "-" button on the Hybrid and Nano sensors, they are automatically connected.

Nano Sensor Swing Recognition

- ✓ If the nano sensor does not recognize the swing well,
- ✓ try adjusting the position of the sensor installed on the glove.
- ✓ Depending on the customer's setup posture, it may not be recognized.



Calibration of swing results

- ✓ If the swing results are very different
- ✓ try adjusting each result in the SLX-Connect app > Settings > Calibration menu.

Factory reset

- ✓ If everything does not work,
- ✓ you can reset it by pressing the "+" / "-" buttons at the same time for 7 seconds.
Read the "Factory Reset" menu.

Caution and Warning

You must read and agree to the purchase and use.

Usage & Liabilities

- Before first use, check the battery life status.
- Do not use the product for purposes other than its intended functions.
- Do not separate and disassemble the product.
- Do not subject the product to severe impact, such as one caused by a drop.
- Do not use unauthorized components.
- We hold no liability for information that may leak from Bluetooth communications.
- We hold no liability for damage to clubs such as scratches, spots, etc.
- Do not expose the product to severe temperature or humidity.
- Ensure there are no nearby obstacles or people when you swing.
- Remove device from the cradle after use.
- Do not use on a hard surface such as concrete or asphalt.

Warranty and A/S

- One year warranty from the date of original retail purchase.
*No warranty against damages or loss caused by accident, abuse, or natural disasters.
- For support, please contact the following email : **support@swinglogic.us**
- For more details, check the Website : **WWW.SWINGLOGIC.US**

FCC Compliance Statement

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.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

Industry Canada Statement

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Énoncé d'Industrie Canada(IC)

Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Tout changement ou modification non expressément approuvé par la partie chargée de la mise en conformité peut annuler le droit de l'utilisateur à utiliser l'équipement.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé.

[FCC]

A minimum separation distance of 20 cm must be maintained between the antenna and the person for this appliance to satisfy the RF exposure requirements.

[IC]

Une distance de séparation minimale de 20 cm doit être maintenue entre l'antenne et la personne pour que cet appareil satisfasse aux exigences d'exposition RF.



SPECIFICATION

Product name : SLX-HYBRID X3 (Model NO : SLX100H)

Size : 72 * 165 mm (300g)

Bluetooth : 4.0 BLE 2.4Ghz 1Mbps

Speaker: Bluetooth 5.0 / 5W Dual Stereo

Sensor : 24GHz Doppler Sensor

Power Source : Lithium Ion 7.4V 3,000mAh

Charging time : 5 Hours

Operating Temperature: -10 °C ~ 50 °C

Water Prof : IPX5

Manufacturer : ULIKE Co, LTD. (MADE IN KOREA)

Address : 23, Daehak 1-ro 58beon-gil, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea

ULIKE Co, Ltd