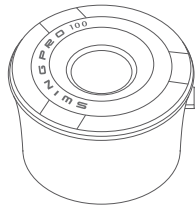


SWINGPRO

REAL-TIME ANALYSIS OF GOLF SWING MOTION



swingpro.co.kr

The Swingpro is targeted at home electromagnetic interference standard (B rate) and could be used at whole area.
External shape and specification could be changed for improving quality without any notification.
Copyright 2013 #990015-100 Rev 1.0

Contents

• Overview	3
• Pre-caution	4
• Parts list	5
• Definition of parts' name	6
• Preparing before using	7
• Using a swing analysis program	10
• Self diagnostic test points before requesting A/S	15
• Specification	17
• Shipping terms & Return Policy	18
• Guarantee	19

Overview

The '**Swingpro100**' is related to a system and an operating method for real-time analysis of a golf swing motion on a golf club, and more particularly, to a system for real-time analysis of a golf swing motion on a golf club including a club identification unit that automatically identifies a golf club used by a golfer and a swing sensing unit that senses data regarding a golf club head generated from swing motions to analyze an angle of a head face, a swing trajectory, a swing rhythm and tempo, and a head speed and feedback the swing motions of the golfer in real time, thereby rightly correcting wrong swing motions, and an operating method for real-time analysis of a golf swing motion on a golf club.

Pre-caution

■ Notification for setting

- Club identification unit is consisted with sharp two pins preventing unit's orientation. Please be careful of hazard during inserting this units into the club grip heads.
- The direction mark (▲) of a club identification unit and a swing sensing unit should be aligned with the club's front direction exactly for proper operation.
- Please do not insert and eject Club identification unit into the grip frequently because it could make a damage to grip and this unit .

■ Notification during operation

- If the water will flow inside, it could make a wrong operation.
- Please do not change product parts and pick to pieces.
- Please keep out of high temperature and direct light for a long time.
- Please keep out of high temperature and humidity for a long time.
- Please do not clean product chemically.
- Please keep a swing sensing unit in a supplied pouch bag after using.

Parts list

Club identification unit

Total 15 Club identification units are supplied for sensor to identify the clubs automatically.

Identification Driver, Wood 3, Wood 5, Hybrid 3, Hybrid 5, Iron 4, Iron 5, Iron 6, Iron 7, Iron 8, Iron 9, Piting Wedge, Approach, Sand Wedge, Putter

Tip Even if there are some miss-matche between real clubs and Club identification units, real club specification could be set at app program.

A swing sensing unit

A swing sensing unit is attatched on club identification units for sensing swing plane, impact face angle, impact speed, rhythm & tempo and others.

Instruction manual

Instruction manual for proper operation.

Pouch bag

Please keep a swing sensing unit into the pouch bag after using.

Definition of parts' name

Mounting direction marker

This marker should be exactly aligned with the front mark (▲) of golf club and a club identification unit after mounting for proper operation

Touch Switch

Using for power on and Bluetooth pairing or connection

Label display

Manufacturing and product information

Club identification circuit unit

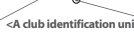
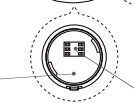
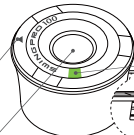
Transfer the club identification to sensor unit

Club Number

Abbriation of club number

Anti-rotation pin

Protecting the rotation or mis-align of a club identification unit



Status LED

Display for Bluetooth connection and battery charge status

Charge terminals cover

Protecting charge terminals

Charging terminals

Using for battery charging.

Club identification circuit terminal unit

Terminal for receiving club identification

Direction marker

Maker of alignment for a club identification unit

Grip Insert pin

Mounting a club identification unit into the grip butt.

Preparing before using

Charging

1. Take off the charge terminals cover and connect the Smart phone's charge cable
(status : Red LED flicker = in charge , Green LED flicker = full charge)
2. After full charge (Green LED flicker), please disconnect charge cable and put on cover.



CAUTION

- Please do not take off cover strongly to prevent some damage.
- The proper Input voltage level is 4.1 ~ 5 V. Please use moderate charger. 24 pins charger for Samart phone is usually available.
- After full charge (Green LED flicker), please disconnect charge cable and push the cover to close.

Installing a club identification unit

1. Please clean the top of the club grip to remove dust and other.
2. Push a club identification unit through the grip butt without any gap between grip top surface and a club identification unit.

Important notification Please align the direction marker(▲) of a club identification unit with club's front direction .

- Tip**
1. If setting a club identification unit on the soft ground and push the club down, user could easily mount it on the club's grip.
 2. If additionally using gluegun or 3M strong tape, it will be tighter.

Preparing before using



- Be careful of sharp pins.
- Too strong push power could make a damage at product.
- Please do not insert and eject Club identification unit into the grip frequently because it could make a damage to grip and this unit .

Mounting a swing sensing unit

Please set a swing sense unit on club identification unit, push and turn clockwise to align two direction marks (▲).

Seperating a swing sensing unit

Please push and turn a swing sensing unit counterclock wise for seperation.

Caution Pushing is very important to prevent a damage.

Installing App

- Installing from market : Searching "Swingpro" at Google play or other stores and install.
If no ID on Google play, please prepare ID firstly.
- Using QR code : If user pictures QR code on packing box, it is possible to go to App download page automatically.

Pairing with Samart phone

Please follow below procedure for pairing between a swing sensing unit and Samart phone.

1. After mounting a swing sensing unit on a club identification, LED should flicker with RED clour.

2. Please search "swingpro" at Bluetooth menu page and set.

Tip Firstly check wether the Bluetooth function is on. Usually at Bluetooth menu these all operation (on/off ,search and pairing) could be done.

3. After searching "Swingpro 100" and answer "yes" to pairing request.
Write passkey or pin=1234 for approval.

4. "Ready" sound will be announced to confirm pairing is successful and a swing sensing unit is normally connected with app program.

LED status RED flicker = power on but abnormal connecting with App
GREEN flicker = power on and normal connecting with App

Caution If charger cable is connected with charge port, pairing procedure is not possible.

Using a swing analysis program

Top side menu



Status of Bluetooth
connection

Battery charging
level of sensor

Connected
Club ID

Bottom side menu

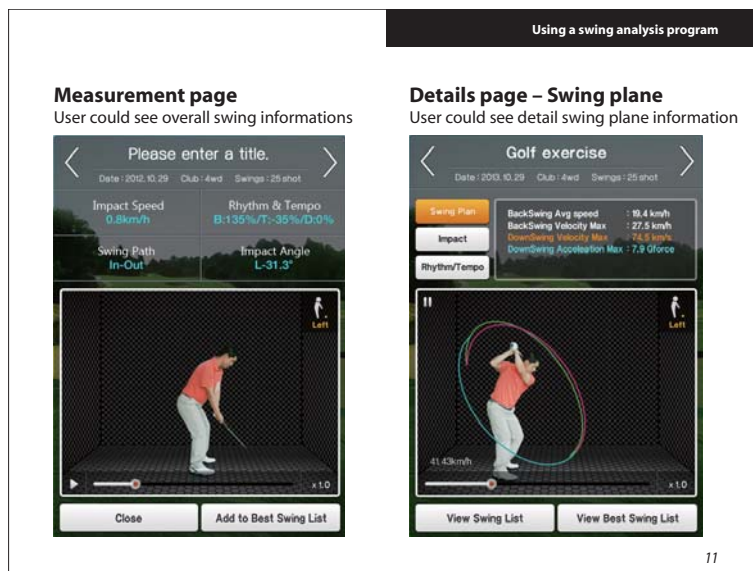


Measurement

Details

Setting

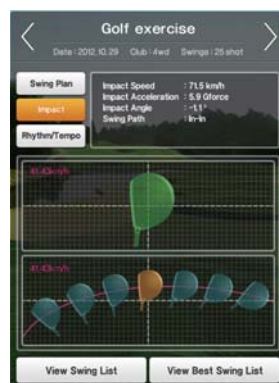
Help



Using a swing analysis program

Details page – Impact

User could see detail impact information



Details page – Rythm/tempo

User could see detail rythm/tempo information



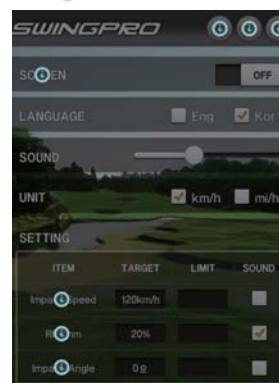
Setting page

User could set several parameters for Swingpro 100



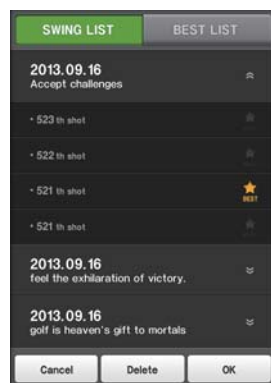
Help

After help button, user could select touch  to see detail help information.



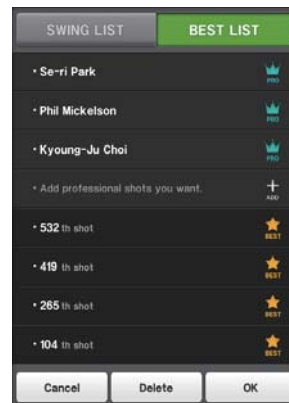
Pop-up - Swing list

Swing history and records. User could select a certain record as best shot



Pop-up -Best list

Show only pro shot and best shot



Self diagnostic test points before requesting A/S

■ No status LED signal

- Please check battery charge. When using it firstly or after long interval, please charge the battery fully.
- Please touch on top of a swing sensing unit. When not using for some minutes interval, sensor could be down automatically and go to power down mode to save battery power. After touch on top of a swing sensing unit if LED flickers, it is normal operation.
- Please separate a swing sensing unit from a club identification unit and re-mounting.
- Hardware re-set of a swing sensing unit : At bottom side, please connect arrowed two pins with pinset or metal line for a short time.

■ No Bluetooth connecting

- Please check whether pairing is set or not. (Without pairing set, Bluetooth connection is not available.)
- Please check whether charge cable is connected or not. (Bluetooth connection is not available during battery charge status)
- Please check whether sensor is in power down mode or not. (After touch the top side of a swing sensing unit, power down mode will be changed and LED will flicker)

Self diagnostic test points before requesting A/S

- The maximum communication distance between Smartphone and sensor is 10m.
- Please check whether Bluetooth function on Smartphone is on or off.

■ Not turning LED colour from red to green during connection.

- Re-starting swingpro app program.
- Please cancel the power save mode at Smartphone.
Cancel procedure of power save mode : environment set > power save mode > off
- Please clear memory or cache area to prevent potential error
Memory clear procedure : long press at home button > operating manager > RAM > memory arrangement

■ Charging is not possible

- Please check whether charger or cable is normal or not.
- Please check whether full charging is available or not. Battery is consumable, so if operating time is short or charging(SOH) is not normal, please call to our office.

■ LED light does not flicker or suspect abnormal operation

- Hardware re-set of a swing sensing unit : At bottom side, please connect arrowed two pins with pinset or metal line for a short time.

Specification

Model name	SWINGPRO 100
Size (W x H)	36x24 mm (excluding club identification unit),
	36x37mm (including club identification unit)
Weight	16g (a swing sensing unit), 4g (a club identification unit)
Operating temperature	0 ~ 60 °C
Battery discharge time	Continuous using time : up to 2 hours,
	Natural discharge time (storage) : 20 days
Bluetooth	Bluetooth ver 2.1 +EDR
Port	Micro USB(charging purpose)
Compatible devices	Android devices with Bluetooth (requires Android 2.2 or later)
App market	Swingpro on Google Play

Shipping terms

- A item will be arranged shipping within 4days from Korea by air-mail. upon payment cleared.
A item will be shipped to buyer's Paypal registered address except buyer leave the message refer to the new address. Please confirm your order and address before you pay for the item. Otherwise, before receiving any update information, we may have shipped out your order. We don't accept dispatch the item to the third country.
- For the international buyers references, due to geographical distance, you may not receive the item in an ideal short time, but we promise you to get it with a good price and make sure you receive it as soon as possible.

Return Policy

Buyers can request a full refund or exchange by returning the received item within 15 days of the delivery date. In order to return an item you must contact us to request a Return Merchandise Authorization Number(RMA) & attached it inside the returned parcel. Any cost of returning the item is paid in buyers end. The return must be complete with original packaging (manufacturer's box, styrofoam, plastic bags, etc) & all accessories packing slip and tags. Replacement would be offered depending on our available stock.

Guarantee

1. This guarantee does not affect the consumer's statutory rights under applicable national or state laws in force, or the consumer's rights against the dealer arising from their sales/purchase contract
2. Du-sung Technology co., Ltd guarantees the original consumer/purchaser of this device that the product will be free from defects in material or workmanship for two years from the date of purchase.
3. The guarantee does not cover normal wear and tear damage due to misuse, abuse, accidents or non-compliance with the precautions; improper maintenance, commercial use, cracked, broken or scratched cases/displays, strap.
4. The guarantee does not cover any damages, losses, costs or expenses, direct, indirect or incidental, consequential or special, arising out of, or related to the product.
5. Items purchased second hand are not covered by the two year warranty, unless stipulated by local law.
6. During the guarantee period, the product will be either repaired or replaced at any of the authorized Du-sung Technology co., Ltd no matter which country you purchased.
7. Guarantee with respect to any product will be limited to countries where the product has been initially marketed.

Customer Center
+82-42-936-8166
www.swingpro.co.kr



Add. 75, Sinilseo-ro, Daedeok-gu, Daejeon, Korea 306~230 Tel. +82-42-936-8166 Fax. +82-42-936-8169

FCC Statment

FCC Part 15.19

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.

FCC Part 15.21

Any changes or modifications (including the antennas) to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment.

RF Exposure Statement (2.1091)

FCC RF Radiation Exposure Statement: FCC RF Radiation Exposure Statement: This equipment complies with FCC RF Radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

RF du FCC d'exposition aux radiations: Cet équipement est conforme à l'exposition de la FCC rayonnements RF limites établies pour un environnement non contrôlé. L'antenne pour ce transmetteur ne doit pas être même endroit avec d'autres émetteurs sauf conformément à la FCC procédures de produits Multi-émetteur.