

SWINGPRO

BE GAME-WINNER WITH REAL-TIME & DOCKING SWING ANALYZER



www.swingpro.co.kr

The Swingpro is targeted at home electromagnetic interference standard (B rate) and could be also used at whole area.

External shape and specification could be changed for improving quality without any notification.

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Overview

Swingpro100 could be used at all kind of golf clubs including Driver, Wood, Hybrid, Iron and Putter. Firstly, it recognizes automatically what kind of golf club is selected after docked at golf club's grip. After swing, it analyzes, displays and sounds all data (Swing Plane, Swing Path, Rhythm&Tempo, Head Face Angle, Head Speed, Attack Angle, Lie Angle and etc.) at real time. Also by comparing with professional golfer's data, users could straighten things out their own swing motion, posture and other activity effectively.

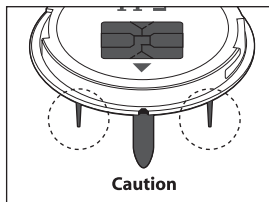


Pre-caution

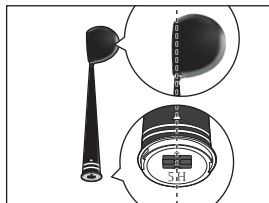


Please review the below notification for user to use this product safely and correctly, preventing hazard and damage.

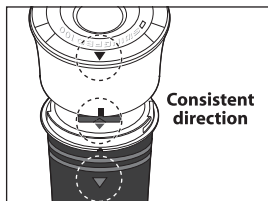
Notification for setting



- Club identification unit consists of sharp three pins preventing unit's orientation. Please be careful of hazard during inserting this units into the club grip head.



- 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.



- The direction mark(▲) of a club identification unit and a swing sensing unit also could be aligned with the club's front direction mark(▲) exactly for proper operation.

Notification during operation

- If a lot of water will flow inside, it could make a wrong operation.
- Please do not change or disjoint product parts.
- 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.
- Supplier is not responsible for products broken by user's carelessness.

Parts list



A swing sensing unit

A swing sensing unit is mounted on club identification units for sensing Swing Plane, Impact Face Angle, Impact Speed, Rhythm&Tempo and others.



Club identification unit

Total 15 Club identification units are supplied for sensor to identify the clubs automatically, and these units should be inserted into grip on a golf club.

D	3W	5W	3H	5H	4I	5I	6I	7I	8I	9I	P	A	S	PT
Driver	Wood 3	Wood 5	Hybrid 3	Hybrid 5	Iron 4	Iron 5	Iron 6	Iron 7	Iron 8	Iron 9	Pitching Wedge	Approach	Sand Wedge	Putter

※ Even if there are some miss-match between real golf clubs and club identification units, real club specification could be set at App program.



Instruction manual

Instruction manual for proper operation.



Pouch bag

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



Google play

Program of swing analysis (App)

This program feeds back the swing motion and results by voice and graphic UI and it could be downloaded from Google play.

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.

Status LED

Display for Bluetooth connection and battery charge status.

Label display

Manufacturing and product information.

Club identification circuit unit

Transfer the club identification information to a swing sensing unit.

Club Number

Abbreviation of club number.

Anti-rotation pin

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

Touch Switch

Using for power on, Bluetooth pairing and connection.

Charge terminal cover

Protecting charge terminal.

Charging terminals

Using for battery charging.

Club identification circuit terminal unit

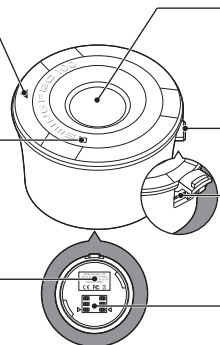
Terminal for receiving club identification information.

Direction marker

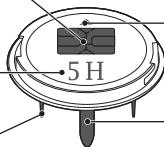
maker of alignment for a club identification unit.

Grip Insert pin

Inserting a club identification unit into the grip butt.



<A swing sensing unit>

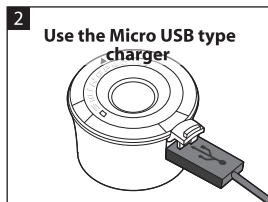
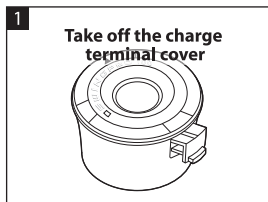


<A club identification unit>

Preparing before using

Charging

- 1 Take off the charge terminal cover and connect the Smart phone's charge cable.
(status : RED LED flicker = in charge, GREEN LED flicker = full charge)
- 2 For charging, please use the Micro USB type charger for Smart phone.
- 3 After full charging, please push cover and insert it into body fully.



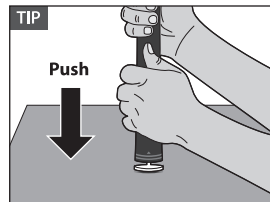
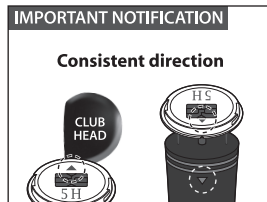
- Please do not take off cover strongly to prevent some damage.
- The proper Input voltage level is 5V. Micro USB type charger for Smart phone is usually available.
- After full charge (GREEN LED flicker), please disconnect charge cable and push the cover to close.

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.

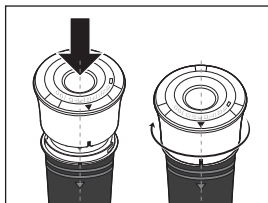
IMPORTANT NOTIFICATION Please align the direction marker(▲) of a club identification unit with club's front direction or club direction marker(▲).

- TIP**
- If setting a club identification unit on the soft ground and pushing the club down, user could easily mount it on the club's grip.
 - If additionally using glue gun or 3M strong tape, it will be tighter.



- 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.

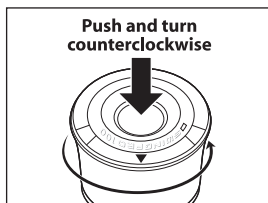
Mounting a swing sensing unit



- Please insert a swing sensing unit to align on the left 10° from the grib direction marks (▲), press down firmly, and then turn clockwise until it sounds a clack.

CAUTION If a swing sensing unit should not be turned until it sound a clack, it could be separated during swing and impact.

Seperating a swing sensing unit



- Please push and turn a swing sensing unit counterclockwise for separation.

CAUTION Pushing is very important to prevent a damage.

Installing App



QR Code

- If user takes a picture of QR code on packing box, it is possible to go to App download site automatically.









Google Play

- Searching “Swingpro” at Google play and installing “Swingpro” properly.

Pairing with Smart phone

According to following steps, pairing and calibration of sensor should be done.

- 1 After mounting a swing sensing unit on a club identification unit, LED should flicker with RED colour at this time.

- Execute "Swingpro" App and select  button.
- Please touch  button when status LED flickers red light.
- After touching  button, select "Swingpro100" or Device ID written on the bottom of the swing sensor unit.
- Entering PIN number "1234" and touching  button, then Bluetooth pairing process will be completed.
- If status LED flickers green light, please set the golf club without any movement.
- If touching a  button, sensor calibration will be executed and completed after a while.
- Touch  button, then screen of measurement will be open. If voice guide with "Ready" is announced, a swing sensing unit should be perfectly connected with Smartphone for sensing a swing.

LED status

	Connecting charger	Mounting a swing sensing unit
RED flicker	Charging	Stand by
GREEN flicker	Full charging	Connecting with App (Swing available)
GREEN off	-	If there is not any swing motion for 2 minutes during LED Green flicker, Green LED will be off for power save mode. (After touch switch, Green flicker will be started again and swing is available.)

※ If LED is continuously off after touch switch, please check the mounting direction of a swing sensing unit or battery power.

Using a swing analysis program

Top side menu

Battery charging level of a swing sensor unit

To save battery power, please mount a swing sensing unit just before a swing and take off it just after a swing.

 (Blue) Full charge  (Black) Full discharge

Connected Club ID


Display the connected club identification and club specification could be changed after touch.



Status of Bluetooth connection

Confirm the Bluetooth connection between a swing sensing unit and Smart phone.

 (Blue) Normal Bluetooth connection  (Black) No Bluetooth connection

 (Blue Flicker) Trying Bluetooth connection



Bottom side menu

By using bottom side menu, moving pages and getting help function.



Screen of measurement

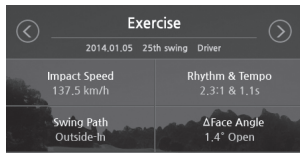
Screen of details

Screen of set

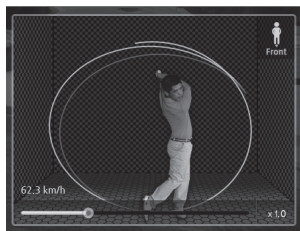
Screen of help

Screen of measurement

User could see overall swing information by display or voice.



- Display 4 major swing information.



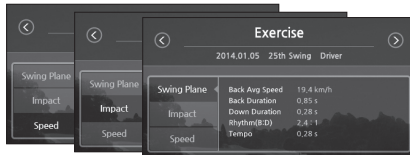
- Display swing animation at real time.



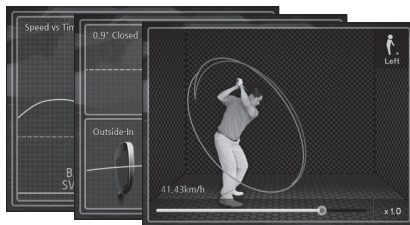
- Call a swing record, assign as a best swing record, comparing between a best swing and a present swing.

Screen of details

User could see more details or information about swing.



- Display details about Swing Plane, Impact and Speed.



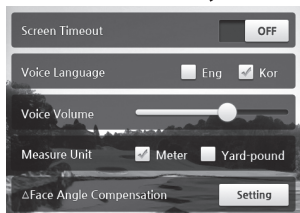
- Display graph, drawing and animation.



- Call a swing record, assign as a best swing record, comparing between a best swing and a present swing.

Screen of set

User could set several parameters for Swingpro 100.



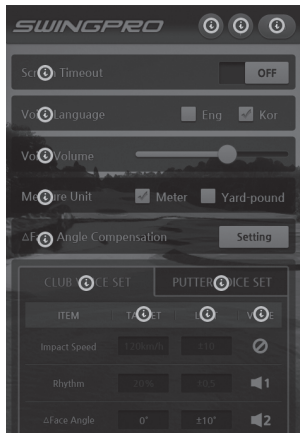
- Setting screen timeout, voice language, voice volume, measuring unit, Δ face angle compensation.



- Setting voice for putter and other clubs separately.
- Setting voice "off/simple/detail" for each item.
- Two voice modes with detail and simple mode.
- The detail voice mode announces detail data and the simple voice mode announces the judgment whether the data is inside in range or not .

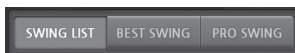
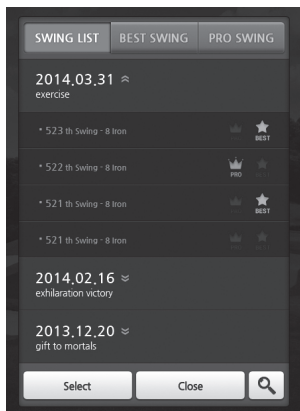
Screen of help

Touch help icon, then new icons are displayed for selecting help item.
User could select help item to see details about help information.



Popup - Swinglist

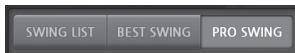
Swing history and records. User could assign a certain record as a best or professional swing.



- Select a swing record for detail data, assign or cancel as a best swing or professional swing.



- Display the best swing list.
- Select a compared swing or cancel a best swing.



- Basically supplying a professional swing record and user could add professional swing data additionally.
- Select a professional swing record for comparing.

Self test points before requesting A/S

No status LED signal

- LED is power on when a swing sensing unit is mounted on a club identification unit.
- If LED flickers after touching switch on top of a swing sensing unit, it is a normal operation.
When not swing for 2 minutes interval, sensor could be down automatically and go to power down mode to save battery power.
- Please check battery power. When using it firstly or after long time interval, please charge the battery fully.
- 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 pin set or metal line for a short time.

LED light does not flicker or suspect abnormal operation

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

Not turning LED colour from RED to GREEN during Bluetooth connection

- Re-starting Swingpro App program.
- Please cancel the power save mode at Smart phone.
(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 : press home button for 3 seconds → operating manager → Ram → memory arrangement)
- Please power off and on (re-start) Samart phone if there is a temporary software error.

No Bluetooth connecting

- Please check whether LED flickers or not after touching switch.
- Please check whether pairing is set or not. (without pairing, Bluetooth connection is not available.)
- Please check whether charge cable is connected or not.
(Bluetooth connection is not available during charging battery.)
- The maximum communication distance between Smart phone and sensor is 10m.
- Please check whether Bluetooth function at Smart phone turns on.

Charging is not possible

- Please check whether charger or cable is connected properly or not.
- Please check whether battery is charged fully or not.
- Please call to our office, if charging is not available.

How to save battery power at field

- To save battery power, please mount a swing sensing unit just before a swing and take off it just after a swing. When not using for 2 minutes interval, sensor could be down automatically and go to power down mode to save battery power.

Specification & Certificate

Specification

Model name	Swingpro 100
Size	36x24 (mm)
Weight	16g (a swing sensing unit), 4g (a club identification unit)
Operating temperature	0 ~ 60 °C
Battery operation time	Continuous operation time : up to 2 hours Natural discharge time (storage) : 20 days
Bluetooth	Bluetooth ver 2.1 +EDR
Communication distance	Maximum communication distance between Smart phone and a swing sensing unit is 10m.
Port	Micro USB for (charging purpose)
Compatible devices	Android devices with Bluetooth (requires Android 2.2 or later)
App market	'Swingpro' on Google Play

Certificate



CE 0678

Notification of user compensation

User category		Compensation contents	
		In warranty	Out of warranty
Functional failure during normal operation	Need a serious repair before 10 days after buying	Exchange or re-fund	N/A
	Need a serious repair before 1 months after buying	Exchange or free service	N/A
	Need a repair before 1 months after exchange	Exchange or re-fund	N/A
	Not available for exchanging within 1 month	Re-fund	N/A
	Repairable	Within 3 times as the same defect	Free service
		Within 4 times as the same defect	Repair at a cost
		Within 5 times as the various defect	
	Not repairable	Returned product is lost	Exchange by getting depreciation
		Not available within 1 month for repair	
		Not available for exchange	Re-fund with residual value plus 10% (maximum price : purchase price)
Performance and functional failure by consumer's mistake and miss-using	Repairable	Repair at a cost	Repair at a cost
	Not repairable due to no spare parts	Exchange after getting fund same with repair at a cost	
<ul style="list-style-type: none"> • Failure caused by natural disasters. (fire, salt damage, gas, earthquake, storm and flood damage, etc.) • Failures caused by problem with the input power or connection unit . • Exchanging expendable parts by normal wear and tear. • Failures caused by external causes without product causes. • Failure caused by repairing by un-authorized person besides Du-sung's agency and customer support center. 		Repair at a cost	Repair at a cost

- Complying with customer compensation regulations. Keeping spare parts for 3 years. One year warranty period from the date of purchase.
- Exchange with the same product and refund with the same issued receipt.
- In case of the issued receipt (with additional cost) higher than normal price, following normal price.

Warranty notification

Model	SWINGPRO 100	Serial number	
Where to Buy		Date of purchase	
Warranty Period	1 year	Free A/S	One year from the date of purchase

Thank you very much for purchasing this product.

If the date of purchase is not clear, warranty period will be calculated from 3 months after manufacturing date. Du-sung Technology co., Ltd enforces warranty on product as below in accordance with the standard of consumer dispute resolution.

Guarantee

- 1 Du-sung Technology co., Ltd enforces any warranty on product as below in accordance with consumer compensation regulations.
- 2 During the warranty period, Du-sung Technology co., Ltd should repair or exchange the defective product which is belong to warranty category.
- 3 Du-sung Technology co., Ltd should re-fund within a certain period of time in case that repair and exchange within the warranty category is not available.
- 4 Du-sung Technology co., Ltd has no obligation to repair, exchange or re-fund until customer returns defective product.
- 5 Warranty on the product distributed by Du-sung Technology co., Ltd will be available to countries where the product has been initially marketed.
- 6 Du-sung Technology co., Ltd do not warranty that software error won't occur at product.

Customer Center

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