

English

SET OPTIMIZER

Product Manual

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#NOTHINGFEELSLIKEAMIZUNO

Introduce

SET OPTIMIZER (SO) is a golf club for swing analysis used for Mizuno Performance Fitting.

The club is attached strain gauge sensor and motion sensor with acceleration and gyro.

By using iOS app, golf swing analysis data are able to display to iPad. Their data are shaft's bending value, impact lie angle, shaft lean angle, attacking angle, face angle to path and so on.

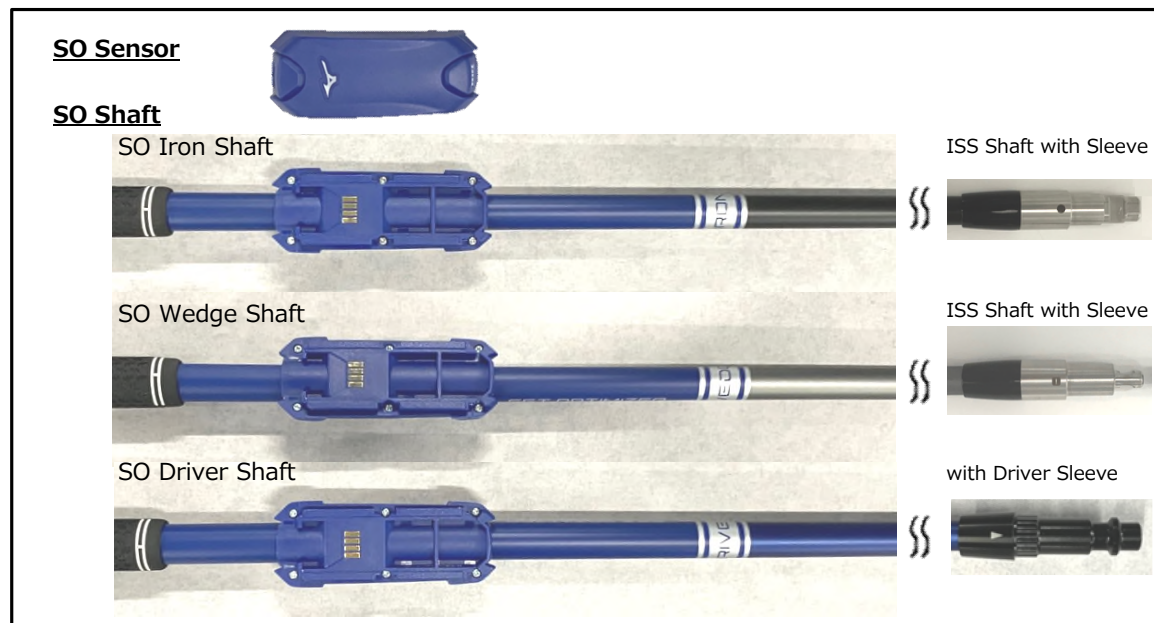
It is usefull for custom fitting of golf club. (It is not be sold to the general market.)

The SO sensor can be replaced on the shaft of a driver, iron, or wedge, allowing measurements to be made for each club.

This product is compatible with the following iPad running iOS14 or later.

- after iPad (5th generation)
- after iphone8

Package List



※ Head and the wrench are not included.

Power Adapter

is not included.



Recommend AC adapter

Input voltage : AC100-240V 50/60Hz

Power Watt : 5W

Output voltage : 5V

Output Ampere : 1.0A

USB Cable for Charger

is not included.



Recommend USB cable is Type-A(USB2.0) to Type C 1.5m.

Wrench

Iron / Wedge

Connect to #7 ISS iron or 58deg wedge head by using Mizuno original rench.

Driver

Connect to driver head by using Mizuno original rench.



※ Adapter and Cable are not included. Use a generic cubic-shaped AC charger and USB cable.
Please use a charger and cable that meet the recommended specifications above.
Use only an AC power adapter that is compliant with applicable country regulations and international and regional safety standards.

Using the Product Safely

Read this document carefully to use this product safely. Failure to handle the product as instructed in this manual may result in a malfunction or accident.

- Keep this manual at hand to answer any questions you have about this product during use.
- If this product is to be used outside of Japan, check the relevant laws and regulations of the corresponding country/region.

【 Meaning of Symbols 】

The following symbols are used to warn of operations and handling that may be dangerous to prevent harm to the user or others and damage to property. Understand these symbols before reading this manual.

- ❗ This symbol indicates operations (instructions and actions) you must perform.
- ⊘ This symbol indicates actions (prohibited actions) that must not be performed.



Warning

- ❗ Turn the power off in public facilities and on public transport.
This product communicates with your smartphone wirelessly.
The radio waves may interfere with devices around you, causing a malfunction, accident, or injury.
Do not use the product when the outside of the case or club are having damage.
- ⊘ If fluid leaks from the battery, do not touch it with your bare hands.
If fluid comes into contact with your body, immediately rinse it off with tap water and then contact a doctor as this could cause burns, injury, and loss of sight.
- ⊘ Do not charge the product in a hot or humid location.
- ⊘ Do not put off the case as unlocking the screw.



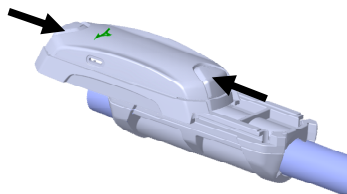
Caution

- ⊘ Do not strong impact and press to the product except normal golf shots.
- ⊘ Do not use for other purpose except to get the swing data.
- ⊘ Do not wet the product because this is not waterproofed.
- ⊘ Do not leave the product in a hot or humid location or in direct sunlight.



Warning

- ❗ Be careful not to pinch your fingers when attaching or removing the SO sensor.
To avoid these accident, press the top of the sensor to attach or remove it.



- ❗ When measuring, be sure to insert it all the way in.
- ⊘ If the sensor case has any abnormalities such as deformation or scratches, stop using it immediately and have it repaired.

FCC Notice

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

ISED Notice

- This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).
Operation is subject to the following two conditions:
 - (1) This device may not cause interference.
 - (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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.*
- (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.*

FCC & ISED Notice

- This equipment complies with radio frequency exposure limits set forth by the FCC and ISED for an uncontrolled environment.
This device must not be co-located or operating in conjunction with any other antenna or transmitter.
This device generates very low RF energy and complies with SAR requirements without the need for specific testing.

Cet équipement est conforme aux limites d'exposition aux radiofréquences définies par la FCC et ISED pour un environnement non contrôlé.

Ce dispositif ne doit pas être utilisé à proximité d'une autre antenne ou d'un autre émetteur.

Cet appareil émet un niveau très faible d'énergie RF, conforme aux exigences de DAS sans essais spécifiques

Caution about Wireless Transmissions

- This wireless device uses the 2.4 GHz band.
- It uses the FHSS modulation method and has an interference distance of 10 m.
- If radio wave interference occur between this product and another radio station, immediately change the location where this product is used or stop using this product

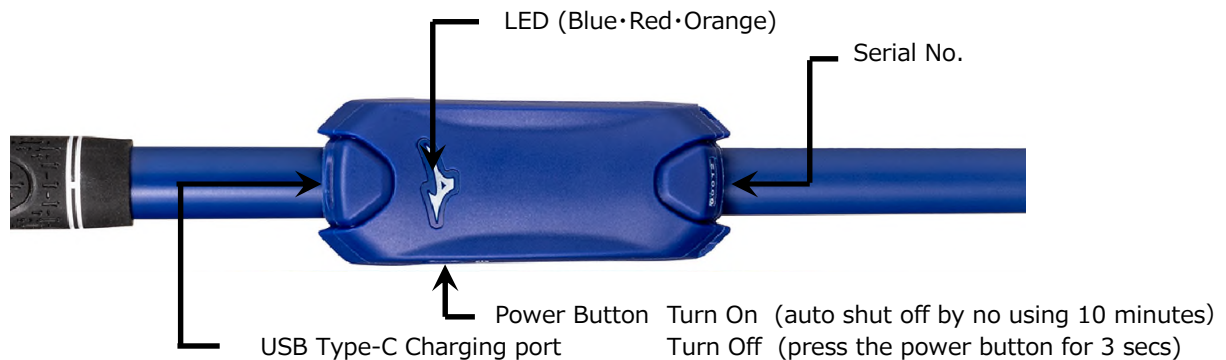
Caution about the Built-in Battery

- This product uses a lithium polymer rechargeable battery for the internal battery.
- The lithium polymer rechargeable battery is a recyclable resource.
- Do not remove the battery yourself.
- The battery is a consumable item that deteriorates even under normal use.
- Battery performance will decline if this product is stored for a long period of time without being used.
- The battery duration will become shorter in an environment with a low ambient temperature.



- Do not charge the sensor in locations where the ambient temperature exceeds **35°C**.
- Do not expose the sensor to ambient temperatures above **45°C**.
In particular, do not leave the sensor inside the car in high temperatures such as summer.
- If the sensor no longer powers up, do not take a shot.
Please request repairs without charging the device.
- If the charging LED (orange) no longer lights up even after charging the sensor.
Stop charging and request repairs.
- Do not replace the battery yourself, because there is a risk of fire or explosion.

1. Part Names and Functions



Status of LED

Status		Display
Turning on etc.	Turn on	After the blue LED turns on for one second,
	Preparing pairing	the blue and red LEDs flash alternately.
	Pairing	The blue LED flashes twice every one second.

Start Measurement

Measuring	Please hold	The red LED turns on
	Take your swing	The blue LED turns on
	Receiving shot data	The purple LED turns on

Finish Measurement

Turning off etc.	Pairing	The blue LED flashes twice every one second.
	Updating firmware	The purple LED flashes three times every two second.
	Turn off	The red LED turns on and then turns off.
	Charge on	The orange LED turns on

2. Setting of connecting

- Connecting Wi-Fi

Turn on Wi-Fi at setting page of the iPad.
Select of your connecting network.
Input the password, if you connect first.



Settings



Wi-Fi

(It will be able to connect to by using iphone's Personal Hotspot.)



Personal Hotspot

- Bluetooth pairing

Activate the Bluetooth on your iPad setting,

and choose the device MTS****. Check that it says Connected.

Activate the Bluetooth on your iPad setting, and choose the device MTS****.

If the device says connected, your iPad has being paired.

and status LED light of SO3D goes blue.



Bluetooth

- Download of app

(Current)

Click App Store icon and search the "MIZUNO"
and down load MizunoSO app, if you find it.



App Store



※Only TestFlight currently

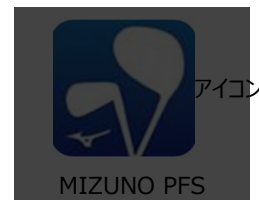
- Starting app

Click icon of "MizunoSO" on iPad.

The RB mark will be displayed for a moment.



MizunoSO



MIZUNO PFS



Input "ユーザー-ID"、"パスワード" and then click button of "ログイン".



for example

ユーザー-ID 9000005
パスワード 9000005

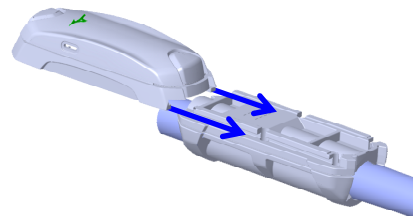
The SET OPTIMIZER picture will be displayed for a moment.



Click the button of "セットオプティマイザー測定(アイアン)".

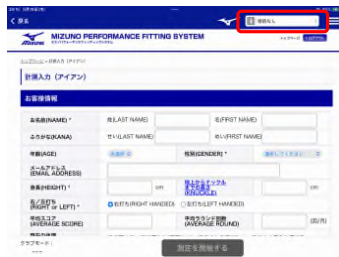


Attach the SO Sensor to the SO iron shaft and select "Yes".



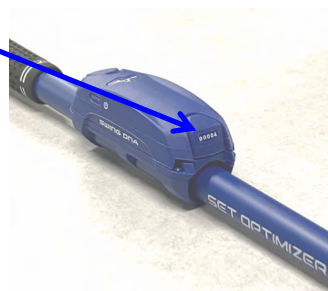
- Sensor turn on
Pressing the power button of SO Sensor.
LED display will blink in red and blue.

Click on the square box with the Bluetooth marking.



※ If the last connected sensor is turned on,
it will automatically reconnect,
so there is no need to do these connecting step.

Check that the serial number of the powered-on sensor matches the displayed number,
then click "Connect".



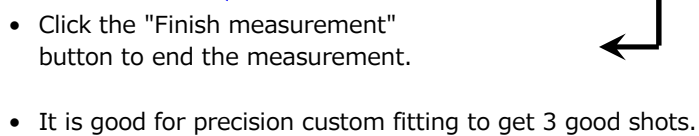
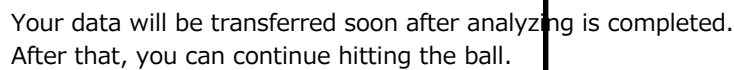
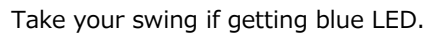
(If Bluetooth number is not displayed, please restart the app.)

When the pairing connection is complete, the sensor will flash blue, so press "Close".

3. Measure

- The measure begin to start, if you click "Get started"
Please hold, while red LED is lighted.
It is OK, if the club is placed without straight to target.





- Even if you are a left-handed hitter, your swing will be automatically detected and the correct numbers will be displayed.

4. Custom Fitting

- If you finished to get the data, click button of "アイアンシャフト推奨".
Click of button of "ヘッド推奨へ" after select the shaft model by the hitting results of ISS clubs that means chargerble variable shaft.
According to the guidance of the PFS software, please establish the model of head, shaft and grip.
- Finally you can transfer the established specifications to club order website,
if you click the button of "クラブオーダーへ".

5. End session

- If you would like to turn off the SET OPTIMIZER, press the power button for 3 secs.
- Charge of the SO Sensor, and iPad for using next time if it is needed.

6. Help

- Please refer to "How to operate" or "Need help?" on Menu if you have any questions.



7. Basic Specifications

Communication method	Bluetooth 5
Communication distance	Approx. 10 m (with no obstructions)*1
Operation time	Approx. 4 hours*2
Built-in battery	Lithium polymer rechargeable battery
Battery Spec	3.7V 160 mAh, 0.592 Wh
Charging method	100-240V 50/60Hz
Charging time	Approx. 2 hours*3
Operating temperature range	+5 ~ +35℃ *4
Storage temperature range -	-10 ~ +45℃
Sensor's dimensions including case	77mm(D)×31mm(W)×15mm(H)
Sensor's mass including case	Approx.35grams

- *1 The communication distance varies depending on the surrounding environment and the performance of the Bluetooth device that is the communication target.
- *2 The operation time conditions are in compliance with our measurement conditions.
- *3 The charging time will increase or decrease in accordance with the usage conditions of the charging battery.
Charging may take about 3 hours from the fully discharged state.
- *4 +10 to +35℃ during charging of the battery (Charge the battery at room temperature as much as possible).

8. Contact Us

(for Test)

- Yasuyuki Ohta
Golf Planning & Development Section
Golbal Equipment Product Department Mizuno Corp.
Email ysoota@mizuno.co.jp
- URL of introduction for Mizuno Custom Fitting
<https://mizunogolf.com/us/custom-fit/>
- U.S. Agent
Company Name: Mizuno USA Inc
Contact Person: David Llewellyn
Address: 3155 Northwoods Pkwy, Peachtree Corners, GEORGIA 30071, U.S.A.
E-mail: david.llewellyn@mizunousa.com

9. Trademarks

- iPad is a trademark of Apple Inc., registered in the U.S. and other countries.
- Bluetooth and the Bluetooth logo are trademarks of Bluetooth SIG, Inc. in the United States. The ® mark is omitted in this manual.

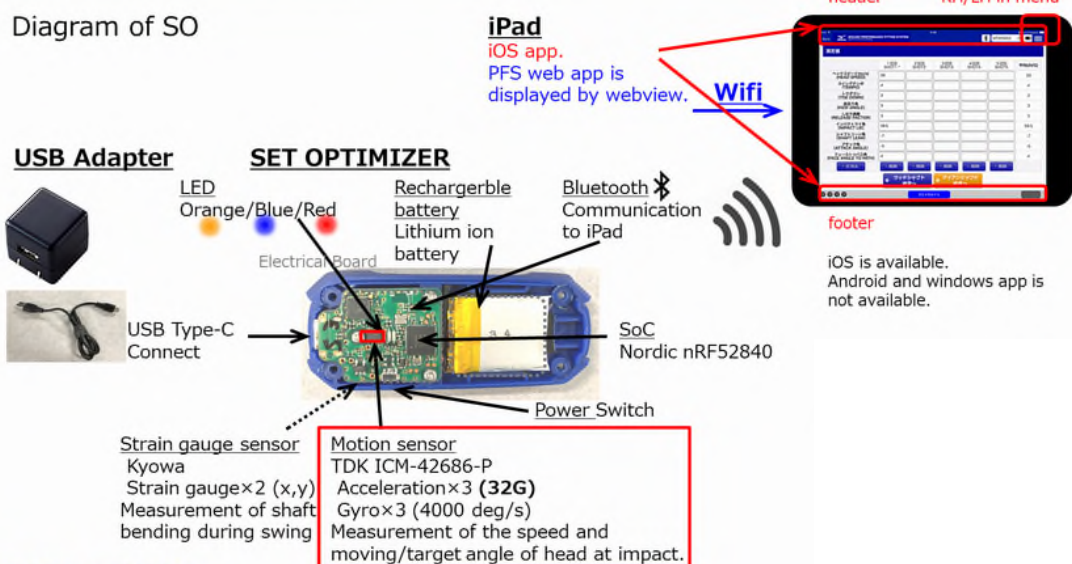
SWING DNA

自分のSWING DNAを見つけよう!

Reference1 Summary

SET OPTIMIZER (SO)

Diagram of SO



REACH BEYOND

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