

# 1. Product Configuration and Specification

## Product Contents



(GZ-GWRS-22)



(Adaptor)

## Specification

Category	Details
Product Name	Portable Golfsensor_RADAR
Hardware Version	Wave Radar V1.0
Software Version	Wave-R1-2320201-146
Size (Weight)	183x135x58mm (750g)
Battery	Li-Ion 3,400mAh 7.2V
Battery usage time	4 hours of continuous use
Battery charging time	2 hours (12V, 3A)
Input voltage	WAVE RADAR : DC 12V 3.33A
Operating temperature	-10~50℃
Communication	Wi-Fi 2.4G, BLE

## 2. Product Information

### Component Roles and Functions

Components	Roles and Features
Portable Golfsensor_RADAR	General strike sensing device (excluding putting balls) Connect via Wi-Fi communication
Portable Golfsensor_IR	Putting Hitting Sensing Device Connect via Bluetooth communication
ADAPTOR	Charger for Portable Golfsensor_RADAR

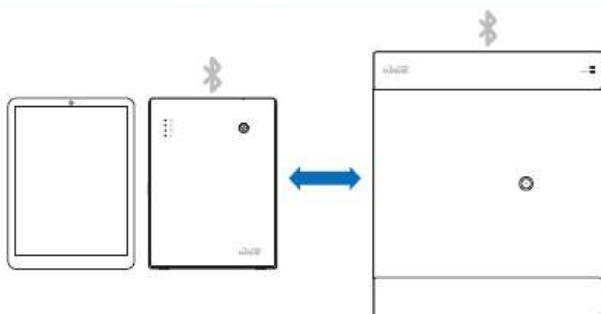
### Product connection configurations

#### WAVE RADAR



WAVE RADAR is connected to the control unit (PC or mobile device) via Wi-Fi.

#### WAVE PUTT

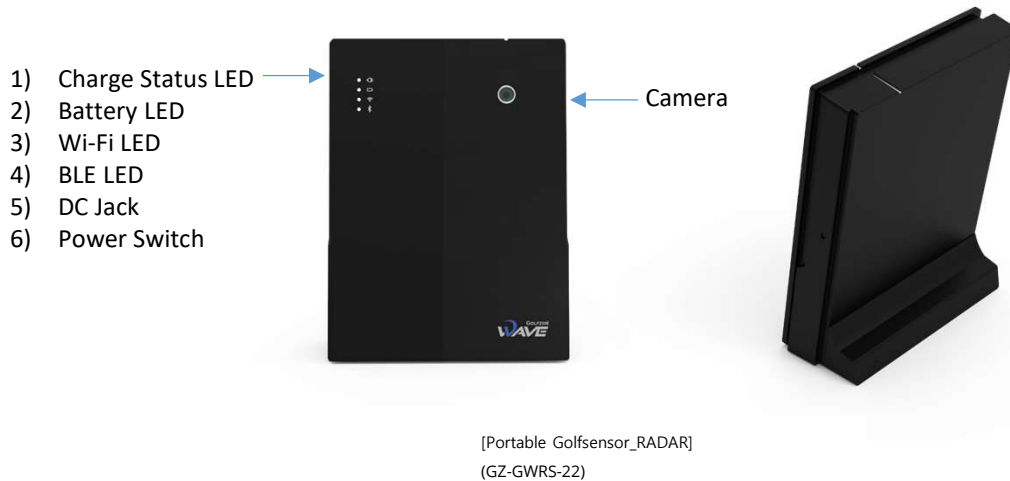


WAVE PUTT is connected to WAVE RADAR via Bluetooth.  
(However, the WAVE RADAR and the control unit must be connected.)

Portable Golfsensor\_RADAR is a sensor that measures the movement of golf balls and clubs.  
Measures the user's golf shot data using the Doppler effect.  
The golf shot results provide golf shot information through the connected device.

### 3. Product Installation

#### Product Image



1. Charge Status LED : Indicates charging status.

CHARGE STATE	STAT
Charge in progress (including recharging)	ON
Charge complete, Sleep mode, Charge disabled	OFF
Charge suspend, Input overvoltage, Battery overvoltage, timer fault , battery absent	BLINK

2. Battery LED : Indicates the remaining battery information.

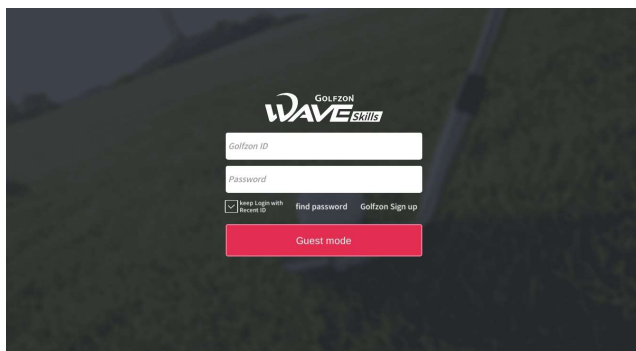
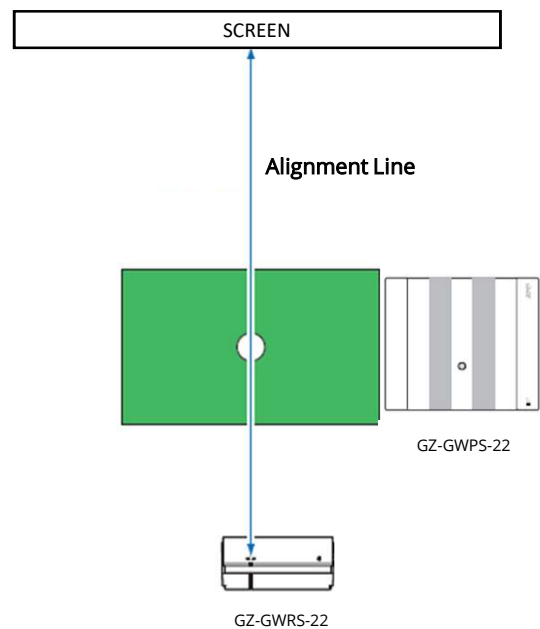
- A. more than 50% : Green LED
- B. 50%~20% : Yellow LED
- C. less than 20% : Red LED
- D. less than 5% : Red LED Toggle

3. Wi-Fi LED : Indicates the Wi-Fi device connection status.
4. BLE LED : Indicates the BLE device connection status.
5. DC Jack : Power adapter connector.
6. Power Switch : Press the power switch for 3 seconds to turn the system ON.
7. Camera : The camera is used for initial alignment and captures the golf swing motion.

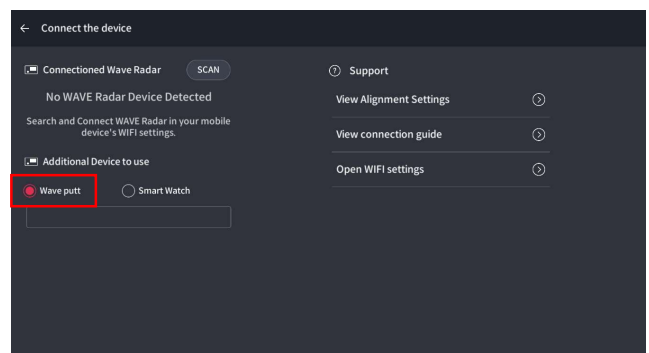
### 3. Product Installation

#### Portable Golsensor\_RADAR (GZ-GWRS-22) Installation

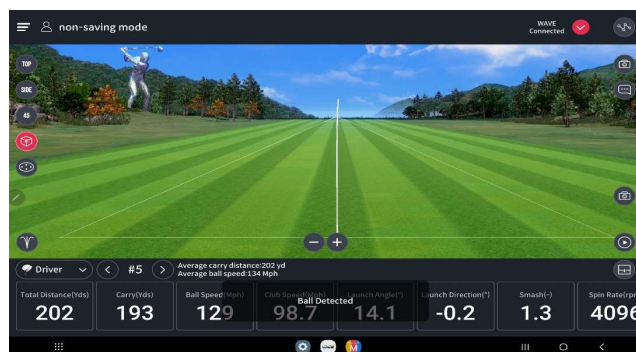
1. Place GZ-GWPS-22 outside the range of GZ-GWRS-22 as shown on the right. (Place GZ-GWPS-22 on a flat floor. Otherwise it may affect direction.)
2. Connect the power using the included Adaptor.(Recommend to use 12V 3.33A)
3. After connecting GZ-GWRS-22 in WAVE Skills, connect with GZ-GWPS-22. (GZ-GWPS-22 cannot be used alone.)
  - I. Open the WAVE Skills app and log in. (Guest mode available)
  - II. Set Connect the device → Additional device to use → Wave putt.
  - III. Connect GZ-GWPS-22.
4. Enjoy a practice and game at WAVE Skills.



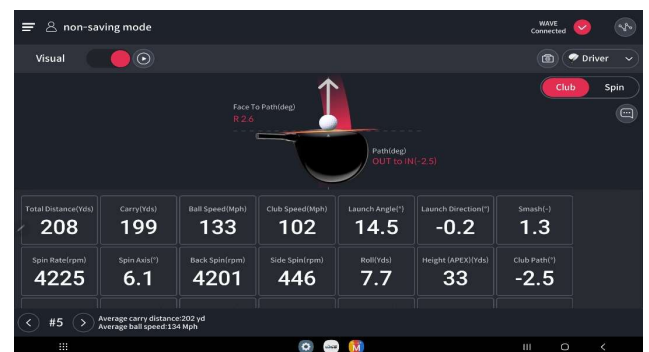
WAVE Skills Login



Connection settings for GZ-GWPS-22



Skills driving range mode



Skills shot analysis mode

## 5. FCC Caution

### FCC Caution

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#### **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.

#### **FCC Interference Statement**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

#### **FCC Caution**

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

#### **FCC Radiation Exposure Statement**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.