

MATE HYBRID MANUAL

R2G

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APP Download and Device Pairing / Unpairing

Download 'R2G APP' on Your Smartphone

Download R2G App on your smartphone



Android
Google Play



iOS
App Store



Device Pairing

- ① After downloading, please sign up and log in upon first launch.
- ② After logging in, Home > press the **Start to Connect** button.
- ③ Activate the smartphone camera scan feature. After turning on the device, please scan the QR code generated in the VIEWER.

❖ Pairing with the device is only required at the first connection.

Device Unpairing

To pair with a new phone, you need to disconnect the existing pairing between the device and the app.

External VIEWER ' Settings → Device information → Factory Reset '

R2G APP ' Settings → Device Settings → Unbind device '

Precautions

- The detailed information about this product can be found on the R2G website.
- For safe and proper use, please familiarize yourself with this user manual.
- Before proceeding to use the product correctly, unauthorized reproduction or extraction of part or all of the contents of this manual is prohibited.

- Do not directly look at strong light, the sun, or lasers through this device.
- Do not place this product near objects with magnetic fields, as they can affect the normal operation of the product and the accuracy of distance measurements.

Due to the nature of the product, using a pouch with built-in magnets may cause operational errors. Please ensure to store and use the product in the provided exclusive pouch.

- Do not subject this product to strong impacts or throw it. This could affect the measurement accuracy or cause damage.
- This product is assembled with high-precision equipment.
Do not disassemble, repair, or modify it on your own, as it may cause malfunction or lead to serious accidents.
(Disassembling the product on your own will make the product ineligible for warranty service.)
- The performance of this product in measuring distances can be affected by weather and environmental conditions.
- There is a risk of damage if the product is submerged or dropped into water.
- Battery operating time may vary depending on the usage environment and method.
- To prevent damage, avoid touching the eyepiece lens with your fingers.
When cleaning the lens, gently wipe it using the included special lens cleaner or a soft, clean cloth.
- Do not leave the product for a long time while it is connected to a charging cable, as this can lead to fire or malfunction.
(When charging, it is recommended to use an adapter and cable compatible with the recommended output of 5V1A.)



The company(R2GPEOPLE Co., Ltd.) is not responsible for malfunctions, damage to the product, or injuries caused by user negligence, and free repairs are not available even within the warranty period.

Product Features

The R2G MATE HYBRID is a golf rangefinder that combines a laser, GPS, and geomagnetic sensor integrated system. It incorporates R2G's unique MPV (MATE PIN VIEWER) feature, providing accurate distance and pin position information. Additionally, it is compatible with over 40,000 GOLF COURSE MAPS worldwide, enabling easy and convenient use abroad.

✳ **Based on 9 hole: USA 23,299 / Korea 1,196 / Japan 4,875**

Also, R2G premieres the industry-first MATE MODE, enhancing skills and enriching rounds with companions. ✳ **Patent No. 10-2626537**

▪ MATE PIN VIEWER

When measuring the pin, it provides the precise location of the pin on the green and the approach distance, allowing for accurate targeting of the green. (Operates when the remaining distance to the pin from the current location is within 150Y(m).)

▪ Application of FPGA chipset (Field Programmable Gate Array)

High-performance laser system with an FPGA chipset enhances target measurement speed and minimizes signal noise, enabling fast and accurate distance measurement even in foggy and rainy conditions.

▪ Laser, GPS&Geomagnetic (Integrated System)

The integrated system of laser, GPS, and geomagnetic sensors provides essential customized information such as shot aiming guides and information about the green's surroundings, making it convenient for use in golf courses both domestically and internationally.

▪ MATE MODE

MATE MODE, featuring R2G's unique patented triangulation function, allows for the measurement of up to four companions' distances after a single measurement of the target.

▪ SLOPE MODE

It differentiates between uphill and downhill to provide a more accurate approach distance. Complying with official regulations, it supports a non-slope mode display on the external VIEWER screen.

▪ PIN CATCHER&JOLT FUNCTION

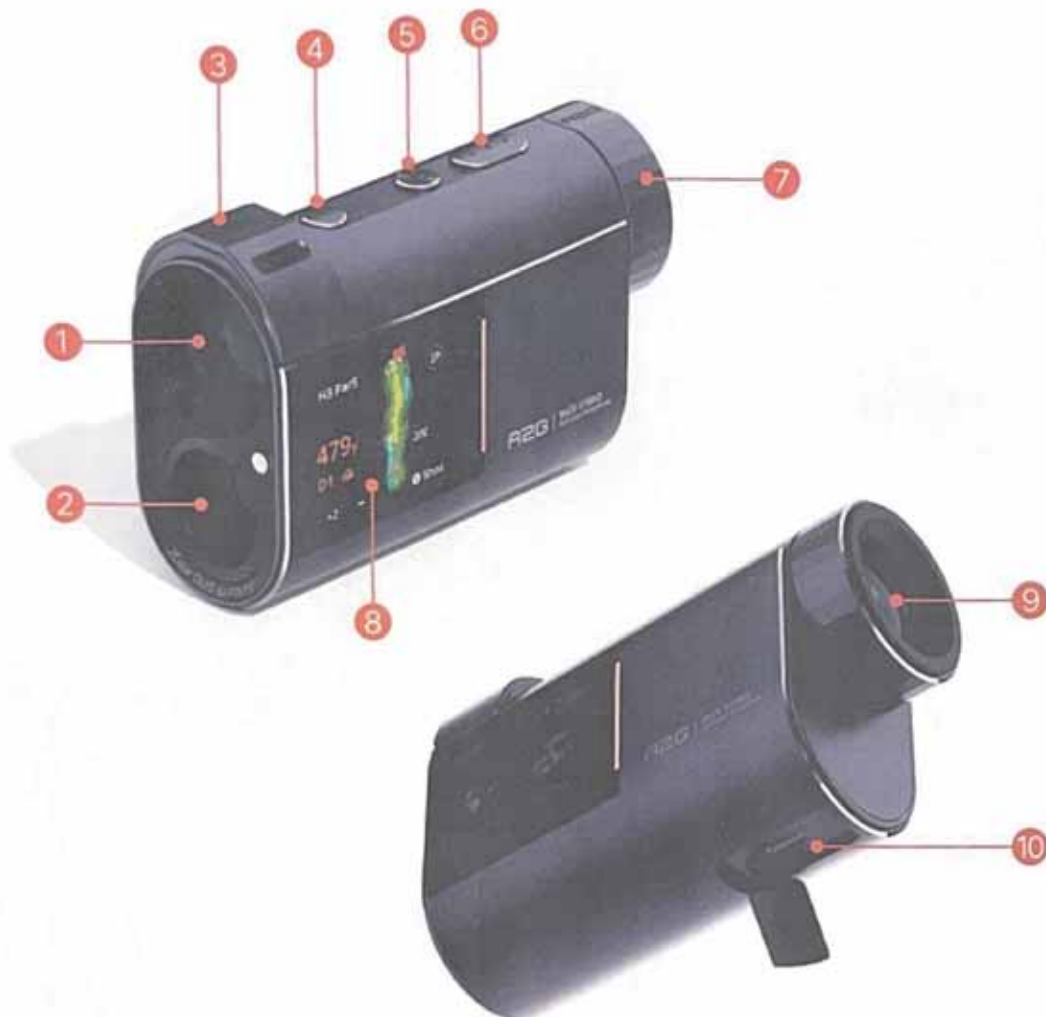
The pin-catcher targets the pin only, even though there are obstacles such as trees and rocks in the background. When more than one object has been acquired, only the distance of the closest object will be displayed.

During standard measurement, the distance is displayed along with one vibration alert, and during Pin Catcher measurement, the distance is displayed along with two vibration alerts.

▪ APPROACH FUNCTION

When the distance to the target is less than 100Y(m), it is displayed to one decimal place for more detailed distance information. Use the approach feature for even more precise and accurate targeting.

Name of Parts



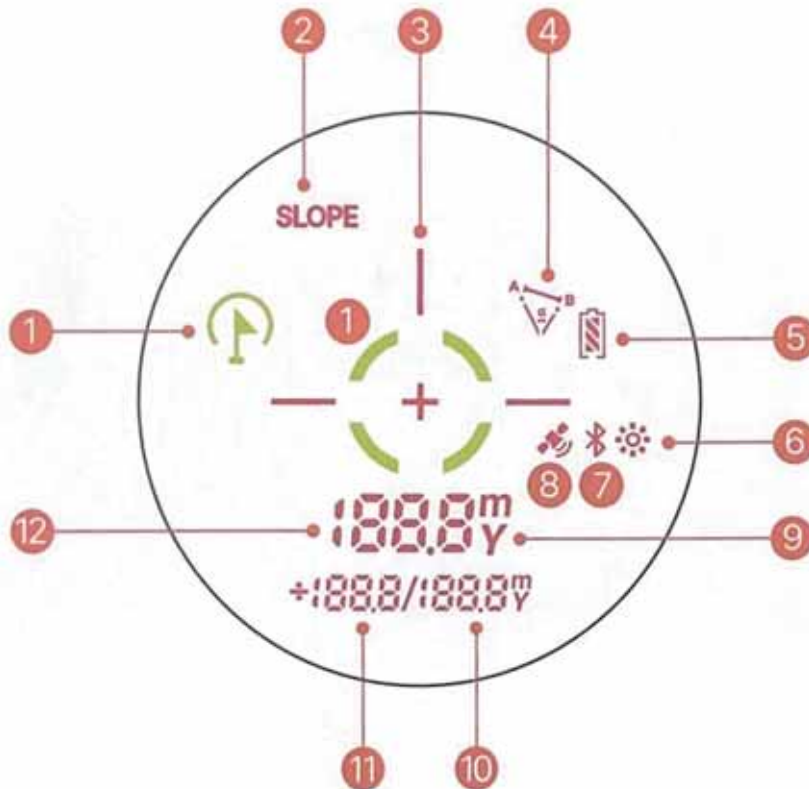
- | | |
|--|---------------------------------|
| 1 Laser Objective Lens / Emission Lens | 6 Power / Measurement Button |
| 2 Laser Receiving Lens | 7 Focus Dial (Focus adjustment) |
| 3 GPS Receiver | 8 AMOLED Touch Display |
| 4 Mode Button | 9 Eyepiece Lens |
| 5 MATE MODE Button | 10 USB Charging Port |

Specification

Model	MATE HYBRID
Dimensions / Weight	98.5x62x37mm / 205g
Magnification	6X
Measurement Range	3-1,000Y(m)
Measurement Speed	Within 0.3 seconds
Unit of Distance	M (Meter) / Y (Yard)
Accuracy	±1.0Y(m)
Angle of View	7.5°
Laser Level	Class1 ,905nm
Water Resistant Level	Waterproof
Display	Rangefinder Display : OLED (2Color Red & Green) External Screen Display : AMOLED1.78"
Power & Battery	3.85V 1,000mAh (Built-in lithium-ion battery)
Charger type & time	USB C-Type, 5V / 1A, About 100 minutes
Bluetooth	Bluetooth 5.1
Battery Life	Rangefinder Mode only : around 50 Rounds Rangefinder + GPS Play Mode : 4 to 5 Rounds (*The usage time may vary due to usage conditions and environmental factors.)
Package Includes	Product, Dedicated Pouch, USB C-type Charging Cable, Carabiner, lens Cleaning Cloth, User Manual
Manufacturer	China / R2G People Co., Ltd

- If measurements are taken beyond the specified range 3-1,000Y(m), inaccuracies may occur.
- Using a fast-charging adapter may damage the product, so please use an adapter and cable that match the recommended output of 5V/1A.
(The adapter is not included with the product.)
- The color, surface finish, material, shape, movement reflectivity of the target, the angle to the target, and surrounding conditions (ex: sunlight) can affect distance measurement.
- Weather changes such as rain, fog, and humidity can affect distance measurement.

Rangefinder OLED Display Information



- | | |
|--|--|
| 1 Pin Catcher | 9 Unit of Distance
✓ M (meter) ↔ Y (yard) |
| 2 Slope Mode
(Displays only when activated) | 10 Straight Line Distance
✓ Slope Mode |
| 3 Aiming Line | 11 Vertical Height
✓ Slope Mode |
| 4 MATE MODE
(Displays only when activated) | 12 Measurement Distance
✓ Adjusted Distance
(Slope Mode) |
| 5 Battery Level | ✓ Straight Line Distance
(Non-Slope Mode) |
| 6 Brightness Adjustment | |
| 7 Bluetooth Connection | |
| 8 GPS Reception | |

How to use

Power ON

Press the Power / Measurement Button [] briefly to activate the laser function, and both the rangefinder OLED and the external VIEWER are turned on.



Power OFF

The power will automatically shut off if the device or external VIEWER is not working.

Rangefinder OLED Power off after about 7 seconds

External VIEWER Power off after 10 minutes on the main screen
Power off after 60 minutes upon entering Golf Play

Swiping from top to bottom on the external VIEWER main screen allows you to turn off the power and select the rangefinder mode.



How to use

Battery Level Check

When the battery level is down to one bar, the battery status indicator at the upper right corner of the rangefinder will blink, and it will switch to rangefinder mode.

Rangefinder
OLED



100%



75%



50%



25%



LOW

External
VIEWER



100%



75%



50%




25%



LOW

Charging

- When a [] icon appears on the Rangefinder OLED screen or the message 'Low-power Please charge' is displayed on the external VIEWER screen, please charge the battery.
- When fully charged, the message 'Charging Complete' will be displayed on the VIEWER screen.

Rangefinder
OLED



When the battery is low

External
VIEWER



When the battery is low



When the Battery is Fully Charged



Using a fast-charging adapter may damage the product, please use a cable and adapter that meet the recommended output of 5V/1A.

How to use



■ Brightness Setting (Automatic)

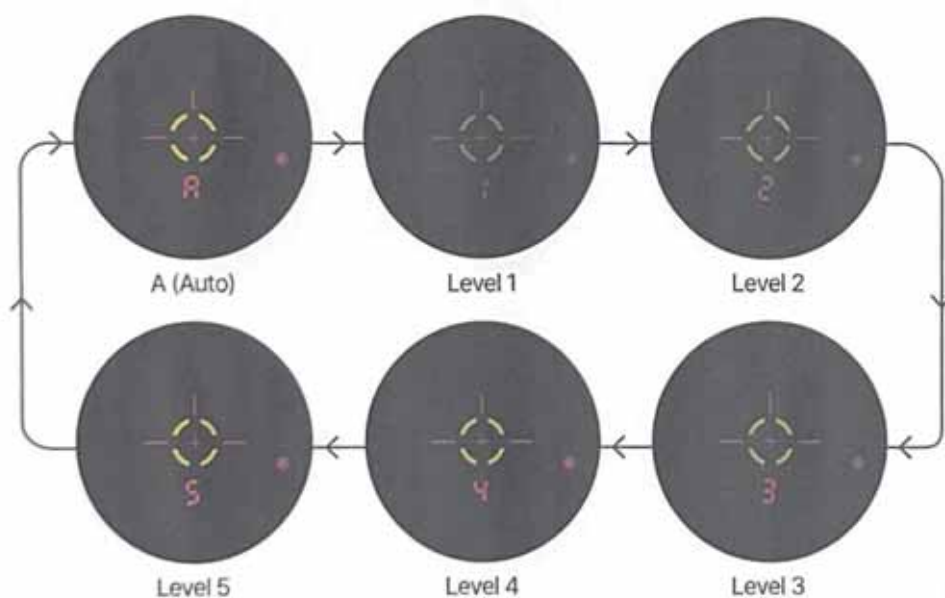
The brightness of the Rangefinder OLED and external VIEWER screen is automatically adjusted according to the external brightness.

✳ The initial setting for the brightness of the rangefinder and external viewer is A(Auto).

■ Brightness Setting (Manual)

Rangefinder OLED

- While holding down the measurement button [], briefly press the mode button [] to manually adjust the brightness.
- Brightness adjustment is available in steps A-1-2-3-4-5.



External VIEWER

In 'Settings → Brightness' you can manually set the brightness and adjust it in 5 levels from 1 to 5.



How to use

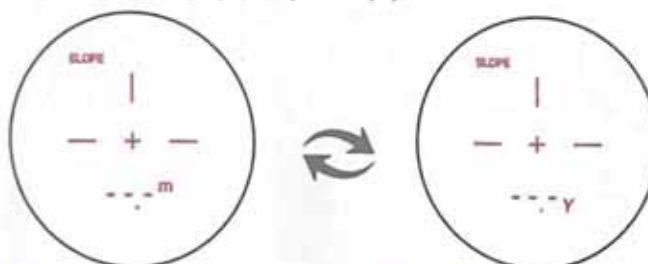
Focus Adjustment

Adjust the OLED display to be clear by turning the rangefinder's focus dial left or right.

Distance Unit Change

Rangefinder
OLED

After turning on the rangefinder, press and hold the mode [⊙] button for more than 2 seconds to switch the distance units between meters (M) and yards (Y).



* The distance units between the Rangefinder and the External VIEWER are synchronized and will change together.

Distance Measurement & Vibration Alert

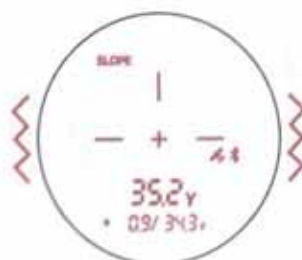
- Standard Measurement

When you briefly press the measurement button [⏏], the distance to the target is displayed along with a single vibration [🔊].

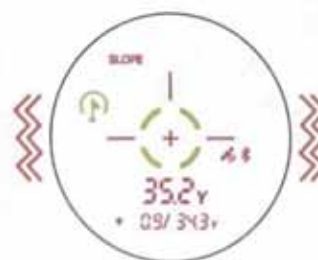
- Pin Catcher Measurement

While holding down the measurement button [⏏], scan the flag left and right. Even if several objects around are detected, the closest target is accurately captured, and the distance is displayed along with two vibrations [🔊🔊]. The Pin Catcher icon is then activated [📌].

Rangefinder
OLED



Standard Measurement
& 1 vibration



Pin Catcher Measurement
& 2 Vibrations



This rangefinder is equipped with approach function. Once a range is acquired less than 100m/100Y, the distance accurate to one decimal place is displayed.


How to use

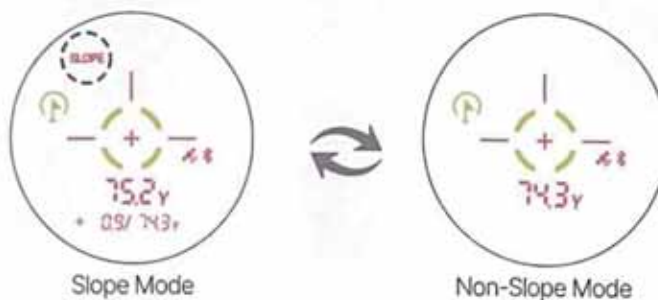
Slope / Non-Slope Mode

- Slope Mode : Measures adjusted distance accounting for elevation difference between current position and the target.
- Non-Slope Mode : Measures the straight-line distance (actual distance) between the current position and the target.

How to Switch Slope / Non-Slope Mode

Rangefinder
OLED

Press the mode [] button briefly to toggle between Slope and Non-Slope modes.



External
VIEWER

In 'Settings → Golf Settings → Slope Mode' you can switch the mode between  ON ↔  OFF. When you press the measurement button, the R2G logo will be displayed on the external viewer for 2 seconds.



- Slope/Non-Slope mode settings are synchronized between the rangefinder and the VIEWER.
- The Club Recommendation feature is disabled in Non-Slope mode.

How to use

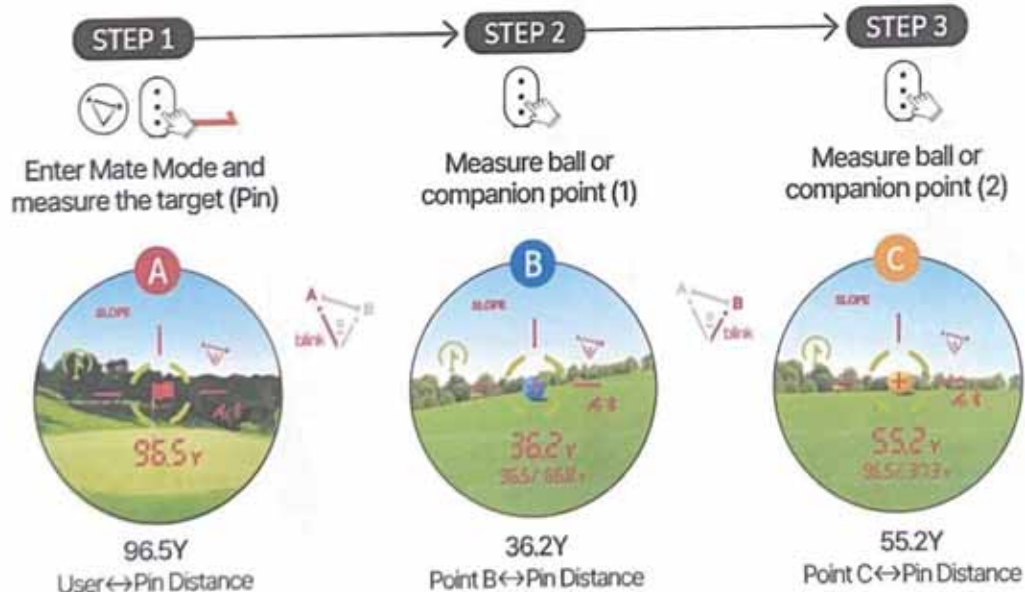
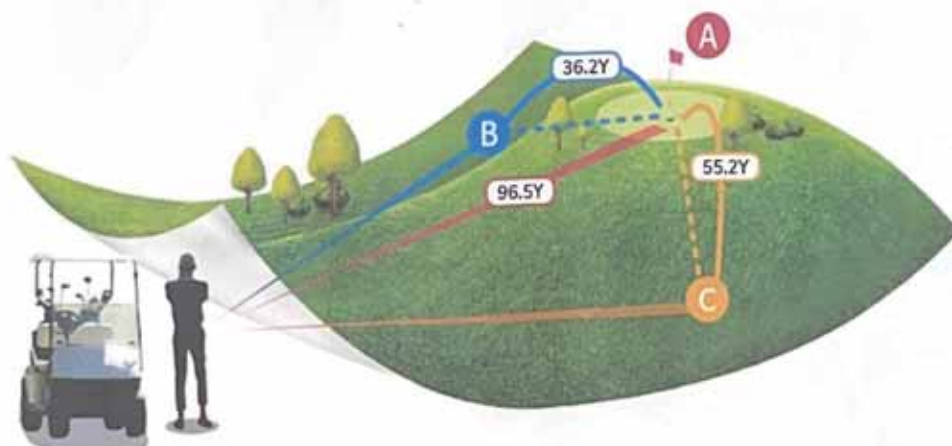
I MATE MODE

R2G's patented MATE MODE not only fosters camaraderie among players but also helps improve their own skills, making golf more enjoyable.

(Patent No. 10-2626537)



✦ Scan the QR code on the right for detailed instructions on Mate mode.



- Please measure the distance to the target(Pin) first. We recommend using the Pin Catcher measurement for the initial target (Pin) measurement.
- In Multi Mate mode, you can measure up to 4 points after measuring the target (Pin) once.

VIEWER Screen Description

Full Course View



When IP is deactivated



When IP is activated

- 1 Hole Information
- 2 Green Location
(When operating two greens (L, R))
 - Manual switching via icon touch
 - Automatic switching via laser measurement
 - Appears only on Course view / Green side view
- 3 Distance from User to the Pin
- 4 Club Recommendation (Slope mode)
- 5 Incline (Slope mode ON)
- 6 Current User's Location
- 7 Driver Distance Arc
- 8 IP (When Deactivated)
- 8 IP (When Activated)
 - 135: Distance from IP to the Target (Pin)
 - 230: Distance from current user's location to the IP
- 9 Score button (Cumulative score)
 - Long press the button to enter the score board
- 10 Shot button (Number of shots for the hole)
 - Press Shot button briefly to enter the number of shots.
- 11 Position of the Pin

Target point wide view & Shot Aiming Line



- 12 Distance from the user to the target point
- 13 Target point location
- 14 Distance from the target point to the pin
- 15 Distance from the user's current location to the target point
- 16 Shot aiming line from the current location
 - Displayed when using the Aiming Guide function

VIEWER Screen Description

I Green Side View



- A** Distance between user and back of the green
- B** Distance between user and pin
- C** Distance between user and front of the green
- D** Location of the pin
 - If the pin is not measured, it is displayed at the center of the green
- E** Obstacles around the green (such as bunkers)
- F** The green

I Green View



- G** Current user's location
- H** Distance between user and back of the green
- I** Distance between user and pin
- J** Distance between user and front of the green



- K** Current user's location (inside the green)



- L** Current user's location (inside the green)
 - After touching the Shot button, fix my position with the ball.

How to Use Settings

I Settings

When you touch the 'Settings' icon on the main screen, you can check or set Golf settings, languages, device information, and screen brightness etc.

Settings	
Golf Settings	Settings for Golf Play
Raise to Wake Off	Tilt to Wake Screen : ON ↔ OFF
Language English	Language Settings (Korean, 日本語, English)
Device Information	Check Device Name, Bluetooth Address, Software Version, etc.
Brightness	Set VIEWER Screen Brightness (Auto/Manual)
Display Sleep Mode	Set Screen Auto-off Time (5 seconds to 60 seconds)

✳ When the screen is off, double-tap the VIEWER screen to turn it on.

I Golf Settings

When you touch the 'Golf Settings' icon on the main screen, you can configure user-customized information and various functions.

Golf Settings	
Driver Distance 200y Modify	User Driver Distance Setting
MATE PIN VIEWER On	Mate Pin Viewer Setting ON ↔ OFF
Input Score On	Score Entry Feature ON ↔ OFF
Recommend Club On	Club Recommendation Feature ON ↔ OFF
Slope Mode On	Slope Mode Feature ON ↔ OFF
Aiming Off	Aiming Guide Available ON ↔ OFF
Wide View On	Target Point Zoom Feature ON ↔ OFF



The UI, features, and settings of the VIEWER may vary depending on the software version.

How to Use Golf Play

Entering Golf Play

'Connect to the R2G APP and keep the App screen On → Golf Play → Find Golf Course → Search for Nearby Courses → Automatic GPS Reception → Search for Nearby Course Information → Select Golf Course → Move to Tee Box → Start Round'



Switch Golf Course Map

When swiping left or right on the full course view screen, the golf map switches.



- Please ensure that the GPS receiver is exposed when running Golf Play.
- Operate the device in an environment with good GPS reception. Reception may not be smooth in areas with weak GPS signals, such as indoors, under roofs, or beneath trees.
- Distance information may be affected by actual local conditions. (e.g, course design changes, weather, terrain, altitude, etc.)

How to Use Golf Play

Full Course View & Auto Zoom

Through a preview of the hole, you can check the entire course layout, the user's driving range, etc. And an enlarged map is automatically displayed as the user moves, providing accurate course details.



Full Course View (Tee Shot)



Full Course View (Auto Zoom)

IP (Intermediate Point)

Touching the [IP] icon displays the IP point and distance, and users can manually change the IP location by touching the screen, which assists with course navigation.



Before IP Activated



After IP Activated

Target Wide View & Shot Aiming Line

When measuring a target point, the target point is automatically magnified, allowing you to check surrounding information and accurately set the target direction through the shot aiming line.

(Aiming Line ON) Target point magnified for 15 seconds /

(Aiming Line OFF) Target point magnified for 5 seconds



Full course view
(When measuring a target point)



Green side view
(When measuring a target point)

How to Use Golf Play


I Green View

When the remaining distance from the measurement point to the center of the green is within 30Y(m), the view automatically switches to the Green View.



Green View

I MATE MODE

When using MATE MODE, a MATE MODE icon [] is created in the top right corner of the VIEWER, and the remaining distance to the pin for each companion is displayed in sequence.

301 y : Distance between user and pin

A 271 : Distance between companion 1 and pin

B 276 : Distance between companion 2 and pin

C 265 : Distance between companion 3 and pin



I Compass Calibration

During Golf Play, if the corresponding screen is displayed, please press the measurement button once, then move the rangefinder in the same manner as shown on the screen to calibrate the compass.

- When calibration is completed, the guidance screen will disappear.



Due to the product characteristics, using a pouch with a built-in magnet may cause operational errors. Therefore, please ensure to store and use the device in the dedicated pouch provided.



- Map images may vary depending on the region and the specific golf course conditions

How to Use Golf Play

MATE PIN VIEWER

The Mate Pin Viewer (MPV) function utilizes R2G's proprietary sensor integration technology to ensure all global golfers can enjoy the best gameplay by providing the precise location and distance to the actual pin on the green when measuring.

- The MPV feature operates when the remaining distance from the laser measurement point to the pin is within 150Y(m), and is only applicable when using Slope mode.

-(MATE PIN VIEWER) Green Side View

You can accurately identify information about obstacles around the green. (bunkers, water hazards).



Before Pin Measurement (MPV not activated)
Green center pin + GPS distance



After Pin Measurement (MPV activated)
Actual pin location + Actual approach distance

-(MATE PIN VIEWER) Green View

When the remaining distance from the current location to the pin is within 30Y(m), the Green Side View automatically switches to Green View, assisting with approach shots.



Before Pin Measurement (MPV not activated)
Green center pin + GPS distance



After Pin Measurement (MPV activated)
Actual pin location + Actual approach distance



- Please ensure that the GPS receiver is exposed when running Golf Play.
- In areas with weak GPS signals such as indoors, under roofs, or beneath trees, or when the pin cannot be accurately measured, the MPV function may not work smoothly.
- Green undulation do not apply to some overseas and Korean golf courses.

How to Use Golf Play

Shot Tracking

Tap the Shot button [**Shot**] to save your current location, allowing you to review the trajectory of each hole via the APP.

Score Card

- Upon completing a hole, a score card screen automatically appears for you to enter the score.

- When you tap the score button [**+0**] displayed in the full course view or green view, a scoreboard input window appears, allowing you to manually enter the score for each hole.



Score input window



Hole	Par	Score	Putt
H1	5	5	2
H2	4	5	3
H3	5	6	3

Score Board

Quick Menu

In the full course view, you can swipe from top to bottom to enter the Quick Menu.

① Enter golf settings. ② If a course change is necessary. ③ When ending the round.



Swipe down on the full course view screen.



Quick Menu



- When linked with the R2G APP, it is possible to save and analyze the scorecard, statistics, and movement trajectory.
- You can check your round records through the R2G Application.
- The map image and the actual golf course view may differ..

Product Warranty

- This device was produced through strict quality control and thorough inspection, and may be exchanged or reimbursed in accordance with the Fair Trade Commission Notice Consumer Dispute Resolution Criteria.
- If any problem occurs in normal use, the product will be repaired free of charge within the warranty period.
- Any modification, modulation, duplication, or replacement with unauthorized parts may result in denial of service.
- For after-sales service and damage compensation, you're required to present the warranty card and proof of purchase (Receipt).

Product Warranty Card	
Product Name	MATE HYBRID
Purchase Date	
Place of Purchase	
Serial Number	
Purchase Price	
Customer Name	
Contact Information	

FCC Caution.

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.

Any 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.

FCC Radiation Exposure Statement:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.