



USER MANUAL

SQGHE100A

(Add Model : SQGHE100ANB)



Scan the QR code to visit our website (www.squaregolf.com).
On our website you can find out more details about Square Golf
and create an account.

This manual includes a product warranty. Please read this User Manual carefully and keep it safe for future reference. The product images in the manual are included for explanatory purposes and may differ slightly from the actual product.

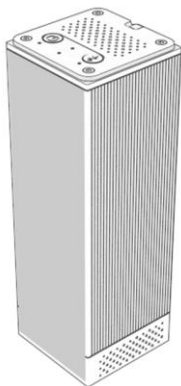
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PRODUCT OVERVIEW

COMPONENTS

01



02



03



04



05



06



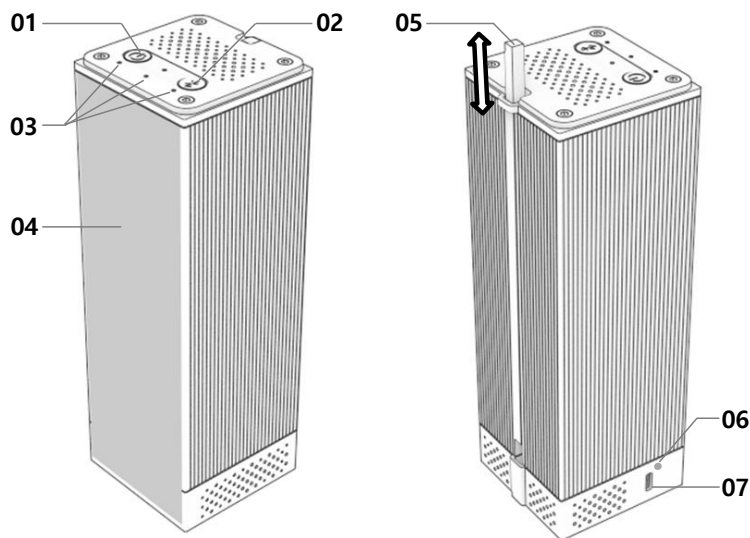
07



- 01 Launch monitor
- 03 Power cable (USB C-to-A)
- 05 Remote control
- 07 Swing stick

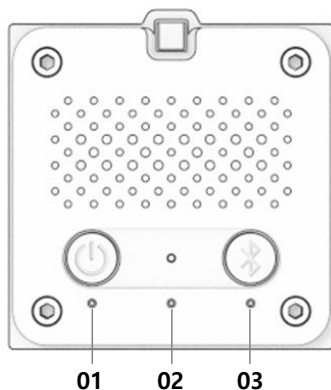
- 02 Battery
- 04 Club marker
- 06 Patterned golf ball x 3
- * Add Model : Battery uncluded

COMPONENTS AND FUNCTIONS



01	Power button	Press button to turn on. Hold for 2 seconds to turn-off.
02	Bluetooth button	Reset Bluetooth connection
03	LED lights	Displays Launch Monitor status
04	Front clear cover	Cover for camera and IR-LED's
05	Alignment stick	Stick to reset the target line
06	Charging status LED	Blinking green when charging
07	USB C-type port	Power port for battery charging

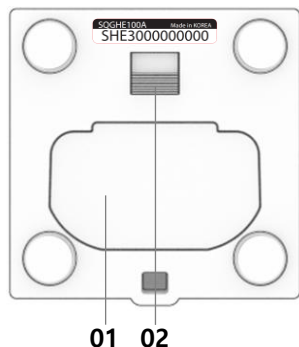
LED LIGHTS



	Name	Color	Status
01	Power LED	Red	Power on
		Blinking red	Low battery
		Orange	Booting
02	Status LED	Blinking blue	Searching ball/alignment stick
		Blinking green	Ball ready (Virtual shot mode)
		Green	Shot ready
		Red	Processing target alignment
		Blue	Processing simulation
03	Bluetooth LED	Blinking Blue	Waiting for connection
		Blue	Connected
		Blue>Red>Green	searching device by app

- ❗ **NOTE** Ball ready: Ball has been placed in the heating zone or the stick zone
 Shot ready: In virtual shot mode, the swing stick is correctly set up to hit the ball

BATTERY CARE



01	Battery	Replaceable lithium-ion battery
02	Battery release	Push button to release battery
03	Charging time	6 hours for a full charge from 0% (with 5V /2A power input)
04	Using time	Lasts up to 8 hours with full charge

TECHNICAL SPECIFICATIONS

Launch monitor	Power input	DC 5V / 1A
	Average current	600mA
	Network	BlueTooth v4.0 (BLE, 2402~2480MHz)
	Operating temp.	0 °C ~ 40 °C
Battery	Matrial	Lithium-ion(Li-ion)
	Voltage/Capacity	3.7V / 6000mAh
Swing stick	Weight	480g
	Length	60cm

* Add Model : Battery uncluded

DOWNLOAD & INSTALLATION OF APP

The launch monitor works in conjunction with the "Square Golf Home Edition" app, which can be downloaded from Google's Play Store or Apple's App Store. The PC version can be downloaded and installed directly from the Square Golf website.

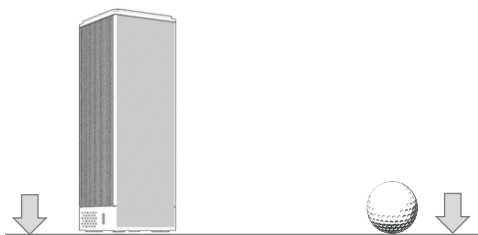
OS	Download site	App name	QR code
Android		SquaregolfHE	
iOS		SquaregolfHE	
Windows	www.squaregolf.com/download		

❗ **NOTE** Instructions for using the app can be accessed via our website (www.squaregolf.com).

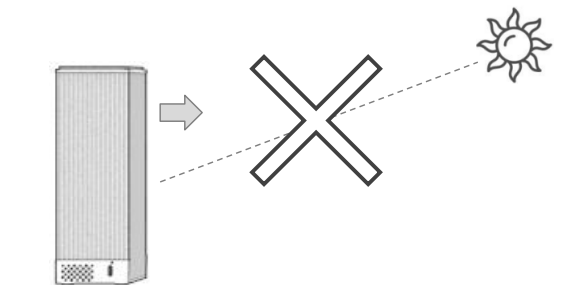
GETTING STARTED

SETTING UP YOUR LAUNCH MONITOR

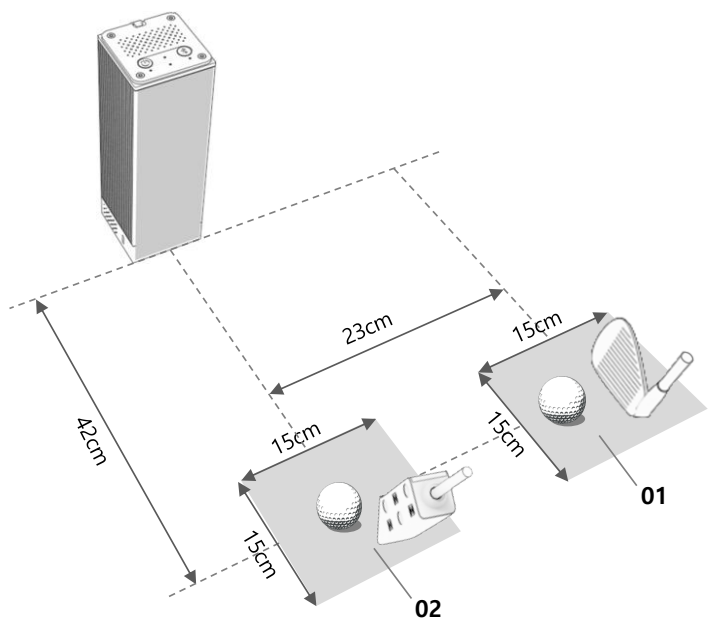
The launch monitor should be placed on a flat ground at the same height as the golf ball.



Square Golf gives you ball and club data by capturing images with high-speed camera and built-in infrared LED lighting. The launch monitor should be set up in a room with little to no sunlight. Additionally, the front of the launch monitor should not directly face sunlight.



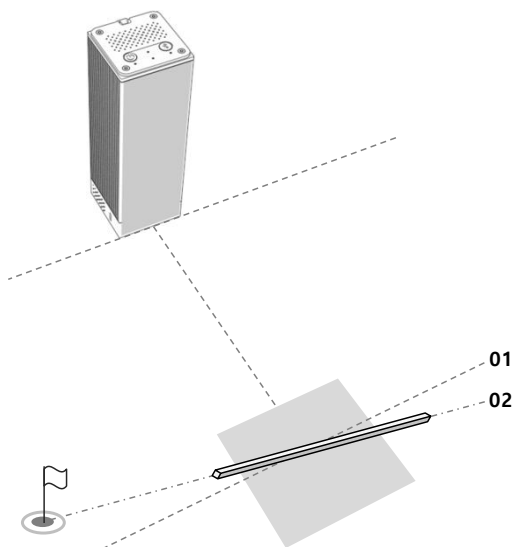
BALL PLACEMENT



01	Hitting zone	Type	Area for ball hitting
		Center	Front-42cm, Right-23cm
		Dimension	15cm x 15cm
02	Stick zone	Type	Area for virtual shot
		Center	Front-42cm
		Dimension	15cm x 15cm

TARGET ALIGNMENT

The default target line for the launch monitor is parallel to the front cover. You can reset the target line using alignment stick on the back of the launch monitor. When the alignment stick is placed in the 'stick zone', the launch monitor adjusts the target line to match the alignment stick. When you restart the device, the target line resets to default. See figure below.

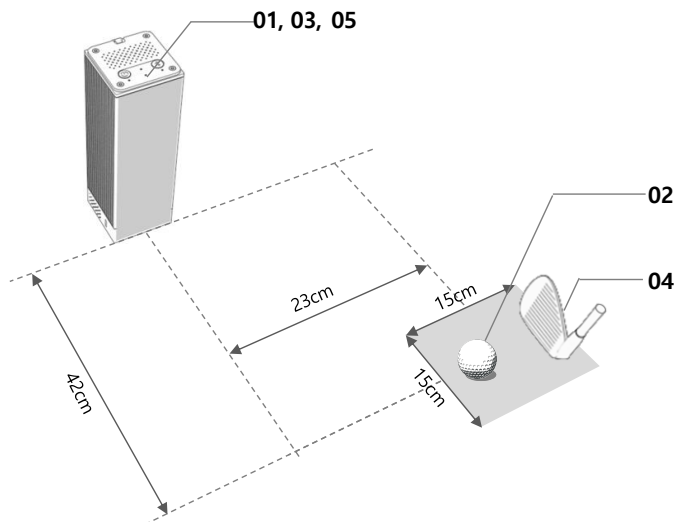


01	Default target line	parallel to line of front cover of the launch monitor
02	Reset target line	Direction pointed by the alignment stick, up to $\pm 5^\circ$ relative to the default target line

TAKING SHOTS

HITTING A BALL (FROM HITTING ZONE)

To take a shot, place the ball in the 'heating zone' as shown in the figure below. Once the LED illuminates green, you can hit the ball.

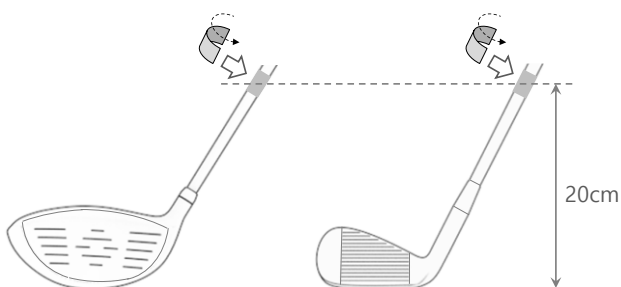


- | | | |
|----|----------------|---|
| 01 | Searching ball | LED blinking blue |
| 02 | Placing ball | Place the ball in the 'heating zone' |
| 03 | Ball ready | LED illuminates green |
| 04 | Perform shot | Complete shot when above minimum ball speed |
| 05 | Simulation | Data is processing - LED is blue |

❗ **NOTE** Minimum ball speed: shot – 3.4mph, putting – 1.1 mph

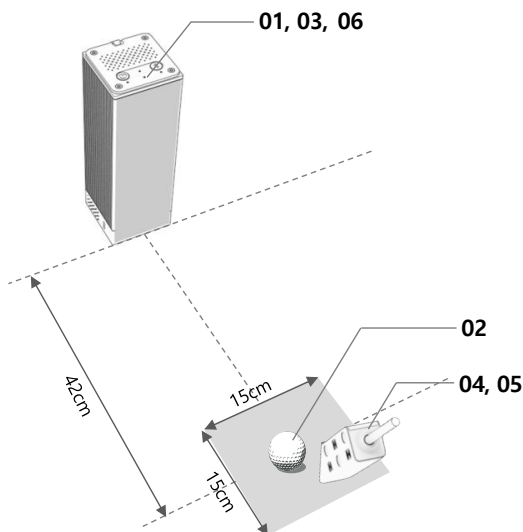
APPLYING CLUB MARKER

If you attach a marker to a golf club, you can measure the club path and attack angle of your swing. The club marker should be attached 20cm from the floor with the club upright as shown in the figure below.



VIRTUAL SHOT USING SWING STICK (FROM STICK ZONE)

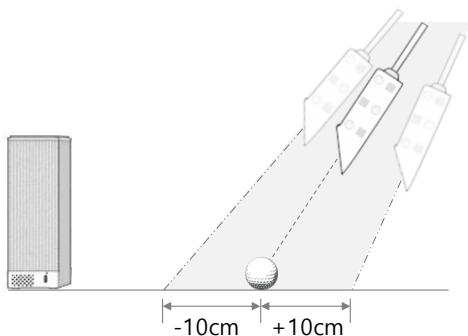
To take a virtual shot with a swing stick, place the ball in the 'stick zone' as shown in the figure below. Once the LED illuminates green, you can take a virtual shot with the swing stick.



01	Searching ball	LED blinking blue
02	Placing ball	Place the ball in the 'stick zone'
03	Ball ready	LED blinks green
04	Shot ready	Point the stick to the ball and pause for more than 1 second then LED illuminats green
05	Perform shot	Complete shot using swing stick
06	Simulation	Data is processing - LED is blue

SETUP AND SWING OF VIRTUAL SHOT

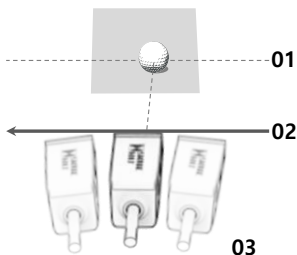
When taking a virtual shot using a swing stick, the shot data is measured and analyzed by the ball's position in your stance.



During setup or downswing, it is considered as a completed setup/swing only if the target line of the swing stick is within a certain range (-10cm to +10cm) compared to the position of the golf ball.



In the case of a completed shot, impact data of the shot is calculated by analyzing the path of the swing stick and the angle of the stick head.



- 01 Target line
- 02 Measure the angle of the head of the swing stick at the impact point to measure the face angle
- 03 Measure the 3D path and speed of the swing stick head

SHOT DATA

Further club and ball data is available when using a patterned golf and a club marker is attached to the shaft.

In the case of a virtual shot using a swing stick, the simulation is conducted by predicting the flight speed, direction, and spin of the ball by measuring the speed and path of the swing stick and the angle of the stick face.

The following is a summary of the shot data that can be measured on the launch monitor.

	Type of shot	Normal shot				Virtual shot
	Golf ball	Marking ball		Normal ball		
	Club marker	Use	Not use	Use	Not use	
Ball flight	Speed	●	●	●	●	△
	Direction	●	●	●	●	△
	Back spin	●	●	△	△	△
	Side spin	●	●	△		△
Club	Path angle	●		●		●
	Attack angle	●		●		●
	Face angle	△		△		●
	Dynamic loft	△		△		●

NOTE ● Measurement △ Estimation

SHOT DATA INFORMATION

The ranges of shot data measurement are as follows

			Measurement Range
Ball flight	Speed (mph)	Shot	3.4 ~ 201.3
		Putting	1.1 ~ 17.9
	Direction (°) ^{NOTE}		-15.0 ~ 15.0
	Elevation (°)		-10.0 ~ 70.0
	Back spin (rpm)		-2,000 ~ 12,000
	Side spin (rpm)		-7,000 ~ 7,000
Club	Path angle (°)		-30.0 ~ 30.0
	Attack angle (°)		-30.0 ~ 20.0

NOTE The range of of the ball flight directions in the table are measured relative to the default target line of the launch monitor.

SUPPORT

For product related questions or issues, please contact our customer support and visit our website to get more detailed information about the product.

SUPPORT

hello@squaregolf.com

Square Golf Homepage

www.squaregolf.com

FCC Instructions

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 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 correct the interference by one 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 which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

Industry Canada Statement

This device complies with RSS-247 of the Industry Canada 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. Ce dispositif est conforme à la norme CNR-247 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Industry Canada Radiation Exposure Statement

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

Déclaration d'exposition aux radiations

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.



Warranty

Product name : **SquareGolf Home Edition (Golf Putting Simulator)**

This product is warranted for a year from the date of purchase, and compensation regulations are as follows.

Warranty Regulations

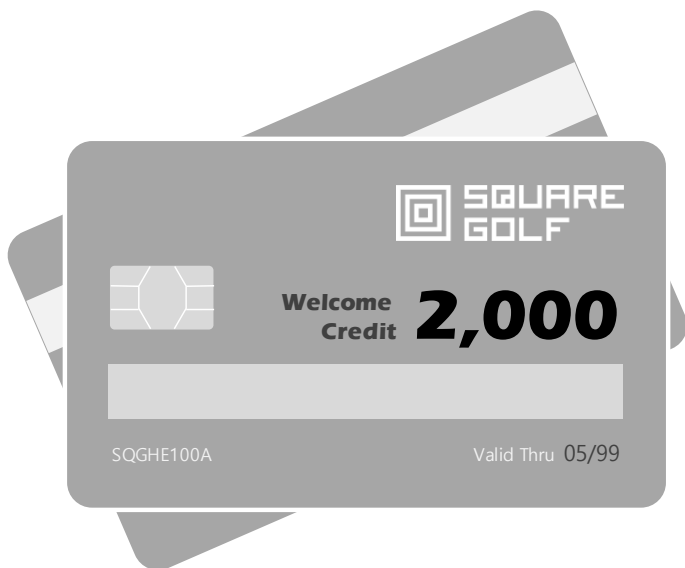
1. AS warranty product: SQGHE100A golf launch monitor
2. AS warranty period: 12 months from the date of purchase
3. Free service
 - In case of defect of product within AS warranty period (free repair or exchange)
 - Swing stick or components other than the launch monitor are not warranted
4. Paid service
 - In case of defect of product past the AS warranty period
 - In case of breakdown due to natural disaster including fire, flood damage, etc.
 - In case of defect from personal remodeling or repair
 - In case of defect from reckless usage or mistakes of consumers
5. AS delivery process
 - All products must be delivered to the company
 - During free AS period, the customer is responsible for charges incurred in sending the product to the company, whereas charges incurred during the release process will be paid by the company
 - After the free AS period, all delivery charges are to be paid by the customer
 - Delivery charges of products that are not faulty are to be paid by the customer



invant Inc.

Manufacture		Serial No.	
Purchase		Location	

SQGHE100AENG230427



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