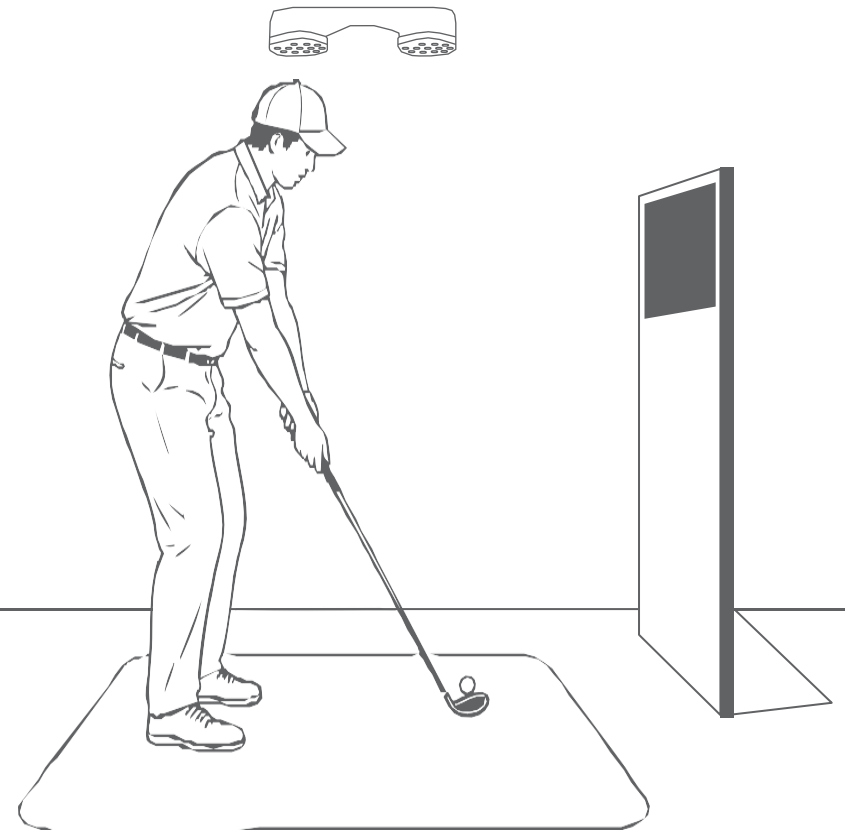




QL – Commercial Golf Simulator

Quick Start Guide





Dear Valued Customer,

As you open this manual, you are beginning a new experience with the **QL - Commercial Golf Simulator**. Thank you for choosing QuakeLogic.

The **QL - Commercial Golf Simulator** is more than a product. It represents our commitment to making golf more accessible, immersive, and enjoyable through advanced simulation technology.

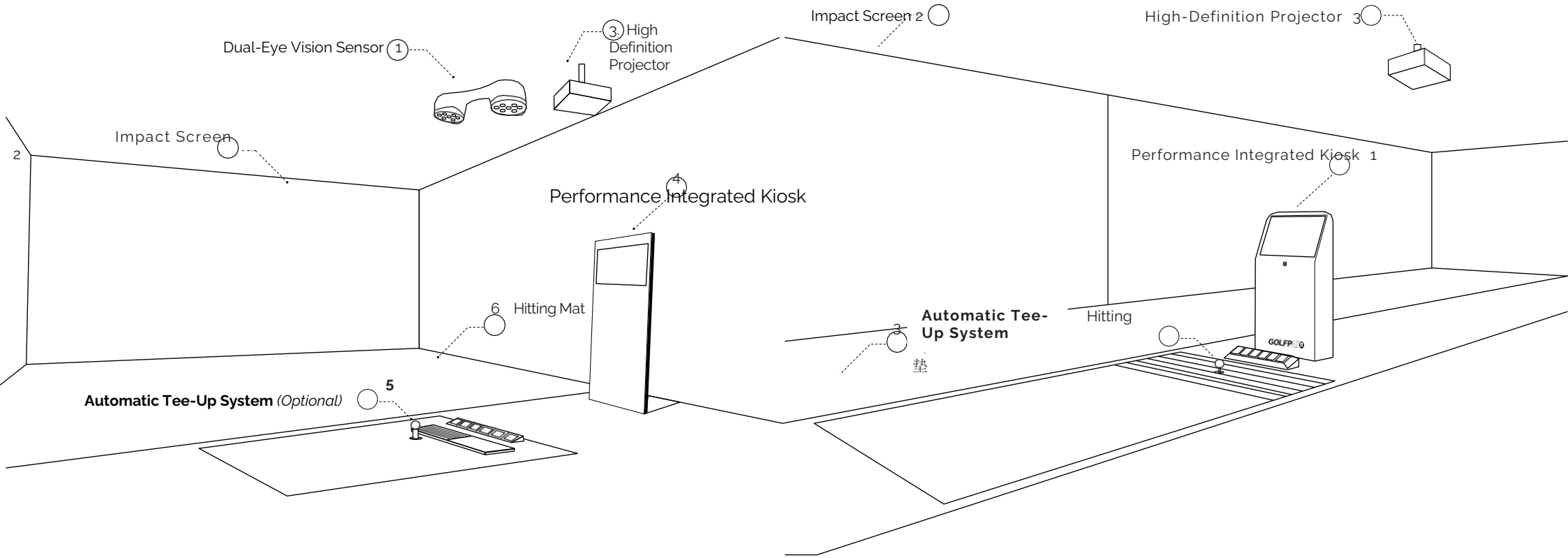
QuakeLogic is dedicated to delivering high-quality simulator solutions that create realistic and engaging golf environments for commercial, training, and entertainment applications. Our goal is to provide a reliable and professional platform that brings the golf experience indoors with precision, convenience, and performance.

With the **QL - Commercial Golf Simulator**, you can enjoy a dynamic virtual golf environment and build an experience that reflects your passion for the game.

Thank you for your trust in QuakeLogic.

QuakeLogic Inc

Product Components



① Dual-Eye Vision Sensor

④ Performance Integrated Kiosk)

① Performance Integrated Kiosk

④ **Automatic Tee-Up System (Optional)**

② Impact Screen

⑤ **Automatic Tee-Up System (Optional)**

② Impact Screen

⑤ Hitting Mat

③ High-Definition Projector (4K/2K)

⑥ Hitting Mat

③ High-Definition Projector (4K/2K)

Startup Procedure

1. Check the equipment and installation area to ensure there are no foreign objects or obstructions.
 2. Confirm that all devices are properly connected to power.
 3. Turn on the main power supply and switch on the system.
 4. Wait approximately **10 seconds**, then power on the host unit and start the system.
 5. Verify that the operating system has loaded correctly and that the projector displays the startup screen normally. Then tap the **"Golf"** icon to launch the simulation software.
- Perform a system check:

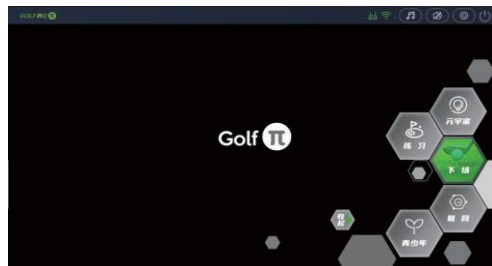
- confirm that the automatic tee-up system is functioning properly,
 - confirm that the ball placement / tee position is normal,
 - confirm that the projected image is displayed correctly,
 - confirm through the video interface that the sensor is operating normally.
- ☒ If any abnormal condition is detected, refer to **Section 9: Maintenance and Troubleshooting** for inspection. If the issue cannot be resolved, contact QuakeLogic technical support.

Shutdown Procedure

- Exit the simulation software from the upper-right corner of the interface.
- Shut down the Windows operating system.
- Turn off the projector using the projector remote control.
- Switch off the system power.
- After confirming that all equipment has powered down completely and all fans have stopped, turn off the integrated unit and disconnect the main power supply.

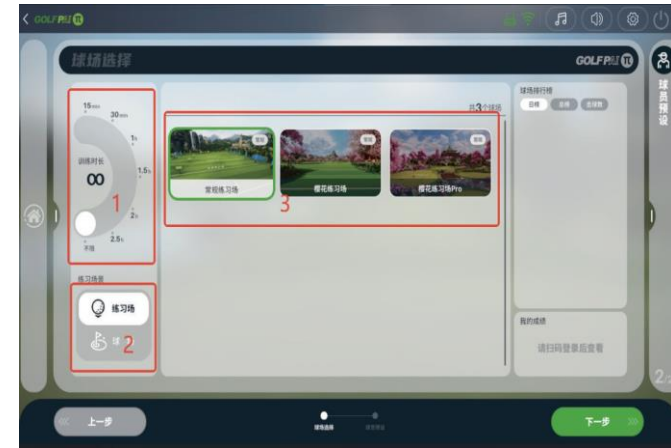
Software Operation

The Golf Party software system is mainly divided into six modules: Practice, Course, Metaverse, Network, Junior, and System Settings.



Practise

Select Practice Mode



(1) Set practice time.

(2) Select practice mode: Practice area is a regular practice area, including long game, short game, chipping and putting, etc.; Course is a course practice area, which supports selecting any course, any hole, and any spot for shot practice.

(3) Course selection.

Login Player



Players can log in by scanning a QR code or add temporary players, with a maximum of 6 players supported.

Start practicing, data display



(1) Display of the two-dimensional trajectory of the ball

(2) Display of the ball's ready status: red indicates not ready, green indicates ready, and green indicates ready to hit.

Practice settings and functions



(1) Player List: Displays the current players. No special functions are available in the practice area

1) Common Function Area:

- ① Upload Highlights: Upload the shot you just hit to the mini-program.
- ② Motion Analysis: Perform frame-by-frame playback, speed adjustment, line drawing, and other operations on the shot you just hit.
- ③ Active Replay: Play the shot you just hit.
- ④ Shot Replay: Switch between shot replay and automatic playback (default is on).
- ⑤ Clubface Replay: Replay image of the clubface hitting the ball.
- ⑥ Environment Observation: Raise the viewing angle to observe further.
- ⑦ Drone Preview: Roam the entire scene from a drone's perspective.
- ⑧ One-Click Alignment: Automatically restores the default aiming direction (direction to the hole or driving range).

(2) Practice Time Display

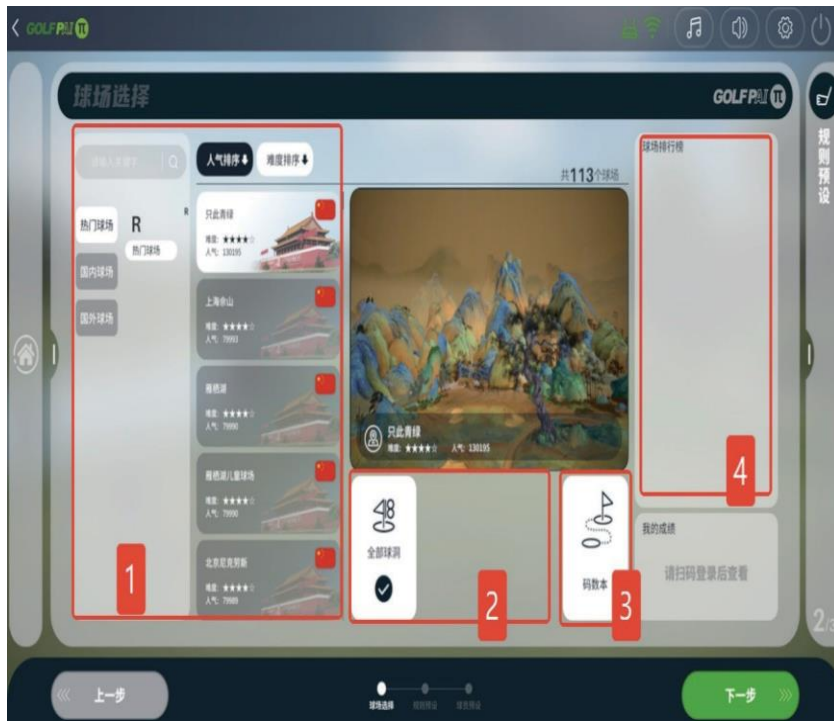
(3) Quick Operation Area:

- ⑨ Mode Switching: Switch between fixed-point practice and long-spin practice modes.
- ⑩ Distance Selection: After switching to fixed-point practice, you can select the fixed-point distance, including short shots and chipping/putting distances.
- ⑪ Practice Analysis: Displays the shot landing distribution map, data list, average data, etc. for each club. Tee height: Sets the height of the ball-raising tee for the automatic ball feeder.

2) Detailed Data Display Area

Next

Select Stadium



- 1) Course List: Supports quick search by first letter and category search.
- 2) Hole Selection: Supports selection of all holes, front 9 holes, and back 9 holes.
- 3) Yardbook: Allows previewing the yardbook for this course.
- 4) Leaderboard: Displays the scores and rankings for this course.

Choose the next game rule



- (1) Mode Selection: Default is stroke play, with options for match play, Las Vegas, Dou Dizhu, and other game modes.
- (2) Rule Settings: Detailed rules settings for each game.

Start the game



- (1) Hole Information: Current course name, current hole number, par number.
- (2) Display of player list and current player information.
- (3) Tee tee color display.
- (4) Green location display.
- (5) Distance from the hole display.
- (6) Fairway map display.
- (7) Current striker's name and avatar display.

Next-stage settings and functions

Login Player



Player Login: After logging in, players can select information such as the tee box and default tee height.



(1) Player List: Unlike the practice range, the player list for the tee allows adding, deleting, and skipping players.

(2) Data Display: Same as the practice range.

(3) Common Functions: Functions related to the tee can be explored independently.

(4) Retreat Function.

Metaverse

Introducing the first-ever golf "metaverse" portal, creating a diverse entertainment platform. A professional game team has developed rich entertainment content, supporting multi-device online gaming, multiplayer PvP, and ranking systems.



City Battle



"In the "Avatar" themed scenario, the player's goal is to destroy islands floating in mid-air, and some of these islands even "move".

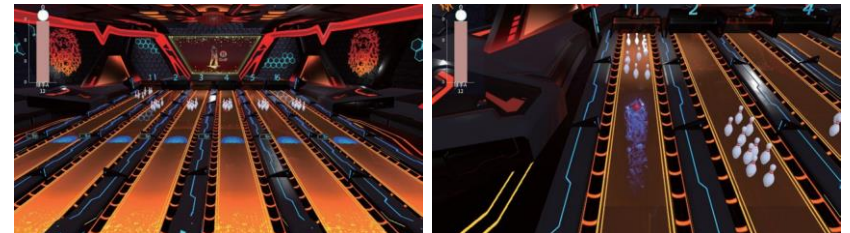
Top Challenge

Cliffside Green Attack

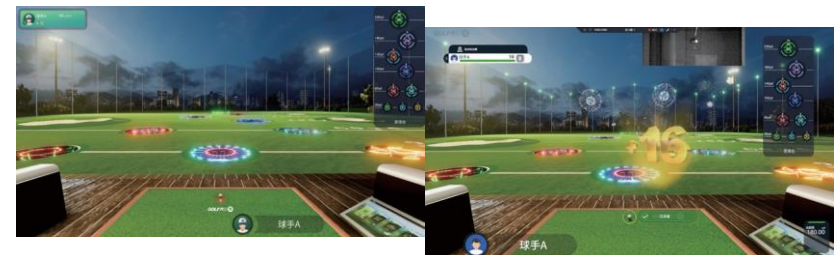


There are several giant rings in the scene. Hit them to get different scores and experience the fun of PK competition.

Bowling putter



Take on a bowling challenge using a putter!

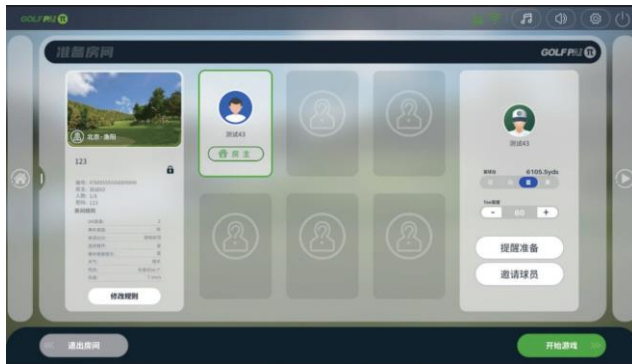


Networking

Tournament Mode

Supports online tournament functionality, including regular season, tour, and long hitter titles

Real-time battle mode



1. Enables real-time remote multiplayer battles, allowing for simultaneous competition across different locations.
2. Supports multiplayer remote battles on any court.

Teenager

Support simulated assessment exercises and examinations for the sports skill level standards for teenagers.

System Settings

Enter system settings

The system settings button is located in the upper right corner of the system:

- ① (1) Background music quick switch
- ② (2) Software mute quick button
- ③ (3) Open system settings
- ④ (4) Exit the software program

Settings

(1) Basic Settings: Includes volume adjustment, background music on/off, and system language settings.

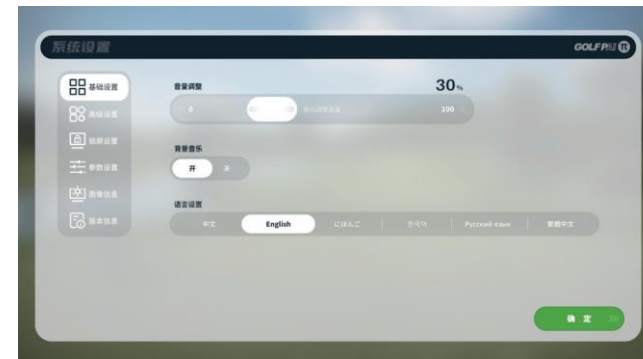
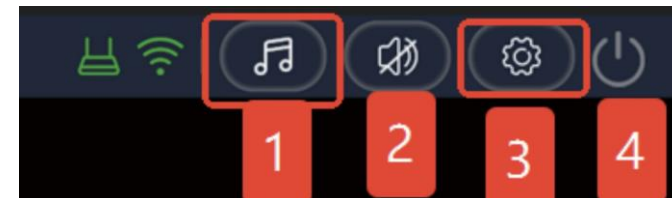
(2) Advanced Settings: Includes setting up passwordless access, setting a password, and toggling the live stream view.

(3) Lock Screen Settings: Sets the system lock screen time to prevent accidental operation.

(4) Parameter Settings: Fine-tunes the parameters for amateur mode.

(5) Image Settings: Selects resolution and image quality settings.

(6) Version Information: Displays the current software version and update summary.



Mini Program Operation Instructions

Function Description



My Videos: Automatically records shot highlights and uploads them to the cloud for download and sharing.

Play Records: Uploads and stores practice and game data in real time.

Practice Range Data: Displays shot trajectory, speed, angle, and accuracy.

Tour Data: Shows shot records, scores, and game statistics.

Statistics: Analyzes recent performance trends from the last 5 rounds.

Play Achievements: Displays personal simulator achievements such as eagles and birdies.

Network Rankings: Compares player performance through online leaderboards.

Simulation Control: Supports remote simulator control through the mini-program.

Remote Logout: Logs out the account from other devices for security.

[Assessment Results] Certificates and Certification Records. Displays the user's scores and corresponding certificates obtained through system assessments. Certificates can be downloaded and viewed, serving as proof of personal technical growth.

[Event Registration] Online Registration Portal. Provides a one-stop service for browsing events, registering, paying fees, and viewing event schedules.

[Points Mall] Earning and Redeeming Points. Users accumulate points through daily logins, playing games, and making purchases. The mini-program is frequently updated; see the mini-program for more features.

Maintenance and troubleshooting

System update

The system supports automatic online updates. If it prompts that an update is in progress, please do not operate the device until the update is complete and you can enter the system.

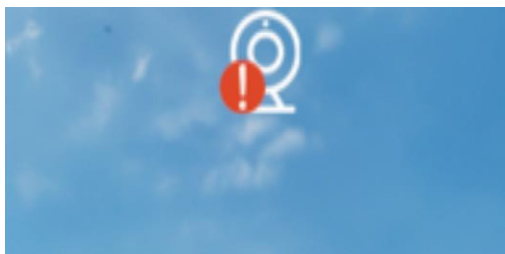
Routine maintenance

- (1) Hitting pad: Recommended replacement interval is 6 months. If obvious, irreversible hit marks appear, it is recommended to replace immediately.
- (2) Impact screen: Recommended replacement interval is 6 months. The hook fixation should be checked monthly. If any hooks are damaged, they should be replaced immediately. If the screen is torn, it should be replaced immediately.
- (3) The screen cannot be washed with water. If cleaning is required, a steam cleaner can be used for spot cleaning.
- (4) The golf balls should be checked monthly for damage. Damaged golf balls not only affect the playing experience but also damage the screen. If possible, the golf balls should be cleaned regularly.
- (5) The return area, including the ball machine's turntable area, should be cleaned monthly. A vacuum cleaner can be used for cleaning to prevent debris accumulation, which can affect the return and ball loading.

Common troubleshooting

Body and sensors

- (1) No sound from the system
Check if the system output device is correct, check if the system volume is turned on, and check if the software is muted.
- (2) System prompts that the sensor is not connected
After entering the software, a sensor not connected icon will be displayed in the center at the top, as shown in the following figure:



Possible causes: The software started too quickly, and the sensor failed to initialize successfully. Try restarting the software.

(3) If the system has the playback switch on, but there is no playback after hitting the ball, the system camera may be occupied. Close the program, access the system camera, check if there is a video feed, and then restart the software.

Projector

(1) After opening the software, the projector still displays the desktop and does not show the program screen.

Possible cause: The software starts too quickly, and the projector has not completed initialization. Try exiting the software and restarting it.

(2) The projector screen suddenly freezes.

Possible cause: The system's frame rate setting for the projector has been reset. You can change it to 60 frames per second. The operation method is: right-click on the desktop, display settings, advanced display settings, refresh rate changed to 60. (When selecting the monitor, ensure that the refresh rate of both monitors is 60.)

(3) The projector does not display the host content.

Possible cause: The input signal source is not selected correctly. Please use the remote control to select the correct projection signal source. If you are unsure, you can try HDMI 1 and HDMI 2 one by one.

After-Sales Service

For technical support or service assistance, please contact QuakeLogic:

QuakeLogic Inc.

2008 Opportunity Dr. Suite 130

Roseville, CA 95678

Phone: +1 (916) 899-0391

Email: sales@quakelogic.net

Website: www.quakelogic.net

Automatic ball feeder

(1) The ball cannot be lifted by the PTZ camera. Possible cause: The sensor in the ball Tee area is blocked by debris, causing interference and preventing the ball from being lifted. Please clean it according to the PTZ camera maintenance in 9.2 Daily Maintenance. If it still doesn't work, the ball Tee can be disassembled to clean the sensor.

Environmental requirements

Basic environmental requirements

Equipment Power Requirements:

1. The power socket for the golf equipment must be effectively grounded;
2. The power supply must comply with national electrical standards, with a stable voltage of approximately 220V;
3. The golf equipment must use a dedicated power supply line with a diameter of ≥ 2.5 square millimeters, and must not share a power line with other equipment;
4. The project's power supply must be equipped with leakage current protection;
5. The total rated power of the products is 2000W.

Lighting Environment Requirements

1. For indoor golf equipment, when the environment is characterized by large floor-to-ceiling windows, glass curtain walls, or other environments with excessively strong sunlight, blackout curtains are required.
2. Spotlights of the specified specifications must be installed on the ceiling above the hitting table according to the design drawings. No other lighting equipment may be installed illegally. Lighting from other areas must not directly illuminate the hitting area.
3. No lighting equipment may be installed in front of the motion replay camera, illuminating the camera itself. AC LED lights are strictly prohibited in and around the camera's shooting area. Spotlights must be DC to avoid affecting video recording quality.

Ceiling Installation Requirements:

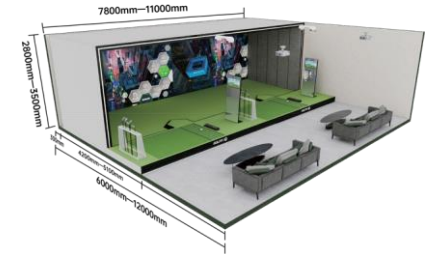
1. No fans or air vents should be installed within 2 meters of the ceiling-mounted sensor;
2. If the fan vibrates excessively, it needs to be mounted on a separate bracket and isolated from the ceiling to prevent vibration from affecting the sensor;
3. The load-bearing capacity of the sensor installation area must be at least 5 kg;
4. Ceiling-mounted sensors cannot be used in vibrating environments.

Dimensions of the row of hand-stitched booths (Length, Width, Height, unit: m)

Minimum Size: 6.0, 7.8, 2.8

Standard Size: 8.0, 8.5, 3.0

Most Comfortable Size: 12.0, 11.0, 3.5



Single-handed typing position space dimension diagram (length, width, height, unit: m)

Minimum Size: 6.0 x 3.8 x 2.8

Standard Size: 8.0 x 5.0 x 3.0

Most Comfortable Size: 12.0 x 6.5 x 3.5

