

PUTTVIEW INDOOR

User Manual

This manual outlines the features of the PuttView Indoor System, provides detailed startup and shutdown instructions, and includes basic troubleshooting procedures.

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01 Support

PuttView support is available through the following details and during the times mentioned below. Please make sure that TeamViewer is running on the computer and the PuttView tablet is fully charged. Furthermore, please ensure an active internet connection on both the computer as well as the tablet is established.

Email: support@puttview.com

Asia, Middle East, and Europe
+49 40 423 06777

Monday to Friday 09:00 -18:00 (CET/CEST)
Saturday: 15:00 – 19:00 (CET/CEST)

USA
+1 917 267 7815

Monday to Friday 7:00 AM – 1:00 PM (MST)
Saturday: 7:00 AM – 11:00 AM (MST)

02 PuttView Overview

This section provides an overview of how to access and control PuttView's modes and settings using the tablet.



1. Practice:

In the Practice module, you'll find various predefined drills and challenges to improve your putting, some of which may already be familiar to you. Additionally, you can test your performance using the Putt Test or by challenging yourself with Random Putts.

2. Professional:

In this mode, players have the freedom to set up a putt as they wish, and additionally customize all visuals to their individual preferences, adding and adjusting them as needed.

3. Games:

The Games menu includes entertaining classics like Tic-Tac-Toe and Shooter, along with exciting new challenges like Darts. It's a fun way to build your skills and set new high scores.

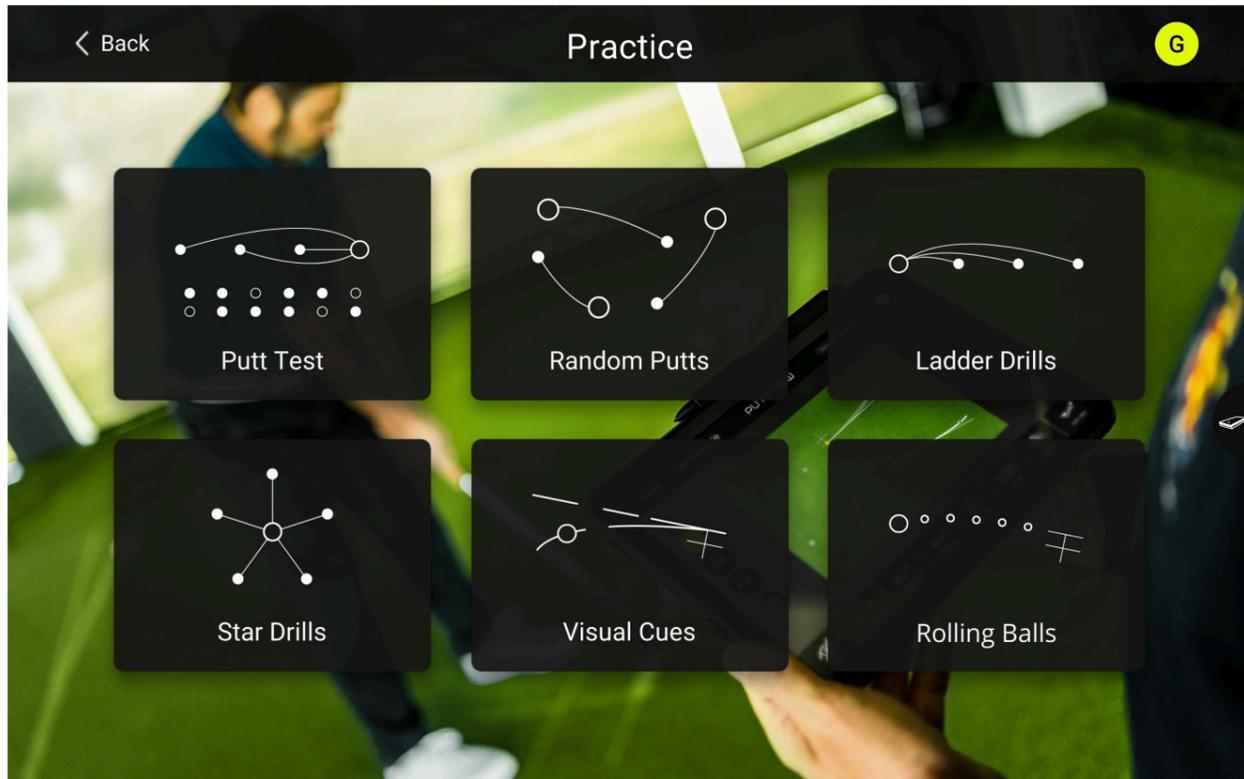
4. Statistics:

The statistics give you an overview of all played putts and your performance over time. To access the statistics, you need an active account (section 4) and sessions (section 5). Read more about the statistics in section 6.

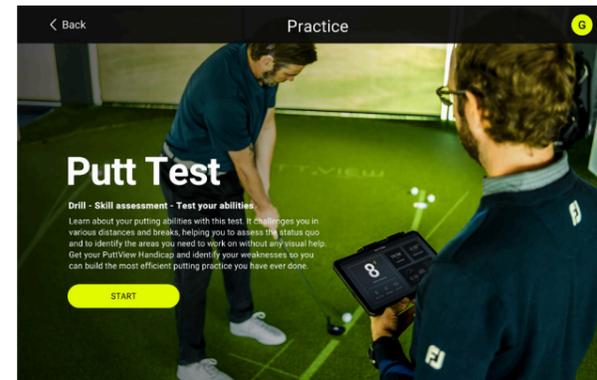
2.1 PuttView Modes

You can switch between modes when you are on the home screen. To get back to the home screen, tap on the 'Back' option in the upper task bar.

2.1.1 Practice



The graphic shows the PuttView practice options. In practice mode, you can find the Putt Test, various drills, and random putt variations.



Putt Test

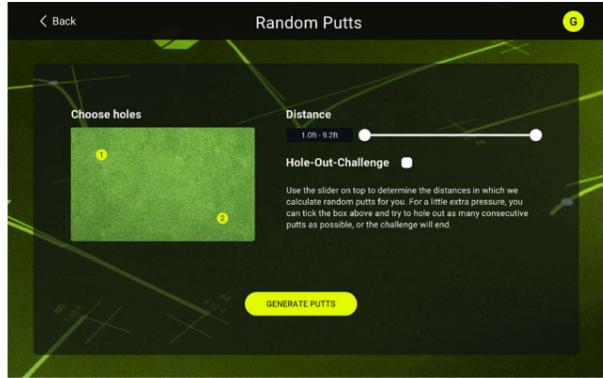
Use the Putt Test to earn your PuttView handicap and get an overview of your putting skills. During the Putt Test you will play 36 putts from different positions and on different slopes. Depending on the size of your green or moving platform, you will play a combination of short, medium and long putts. You must be logged in to save putt test results and Ball Tracking must be enabled for the putt test.



During the putting test, you will see an overview of all your putts on the screen, which gradually fills in with color, so you can track how much of the test you've already completed. The transparent numbers represent putts that haven't been played yet, the grey-colored numbers indicate missed putts, and the neon-colored numbers show successful holed putts.

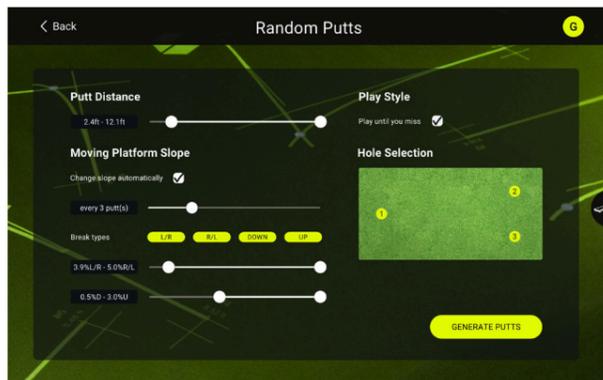


Once you have completed all 36 putts, the results will be displayed. Here, you can see your PuttView Handicap, as well as your results for the different length categories if your green supports them. Additionally, other important parameters like launch direction and launch speed are shown on this screen. If you were logged in for the putt test, your results will be saved in a session. For further insights you can enter statistics to analyze your putts and compare them with other sessions.



Random Putts

Doing drills and developing a routine is important, but once you are out on the course, you only have one chance to hole the putt. Decide which distances you want to practice and PuttView will generate random putts within that range. You want a bigger challenge? Select the 'Hole-Out-Challenge' setting to try to hit the selected holes as often as possible in a row and if you miss a putt, the challenge will end automatically. Repeat this exercise on a frequent basis and track your improvement over time.



Random Putts (only for Moving Platform costumers)

For the Random Putts Generator on the moving platform, in addition to settings for distance, hole selection, and the option to enable the Hole Out Challenge, you can also configure settings for the moving platform itself. You can adjust the frequency at which the slope changes and precisely select the desired range of slopes that the platform should cover.



Practice Drills

Sometimes it is difficult to know where to start improving, predefined practice drills (Ladder Drills, Straight Putts, Star Drills, Visual Cues and Rolling Balls) help you overcome that hurdle. You can control the position using the buttons at the top right of the upper task bar, if you do not have Ball Tracking, the ball has not been tracked correctly or you want to replay or skip individual positions. Repeat the exercises frequently and track your improvement.

2.1.2 Professional

The Professional Mode offers a highly customizable free practice scenario. Adjust the visualization on the green, create practice scenarios using Scene Menu, play with multiple players at the same time, or get some more Putt Info. An animated tutorial will appear to guide you with tablet interactions if there is inactivity for 90 seconds. You can activate/deactivate the visuals and options with a short press on the buttons. Please note that some settings effect all visuals on the green while others are only related to the individually selected ball. You will know which ball is currently selected by the neon yellow highlight around the specific ball on the tablet (see picture below).



Long Press to get access to the sub-menus

Get access to even more customization options with PuttView sub-menus. Press and hold menu options like „Ideal Line“ for a few seconds to open a sub-menu with additional customization options. Those advanced settings include for example:

- Activate the Hole Entry Point or Aiming Point instead of the entire lines.
- Show Speed Corridors for Ideal Line and/or Aiming Line.
- Select if you are right or left handed for your Setup Lines.



Play Menu

The Play Menu is the first button on the left side. It controls all the visual cues related to your putt which are shown on the green. You can control the following options:

- Activate and control the: Ideal Line, Aiming Line, Base Line, Setup Lines and the Swing Guide.
- Adjust the aggressiveness of your putt.
- Enable the Putt Information.
- Access the sub-menus with a long press to adjust color, widths, brightness, and various animation possibilities of all lines shown on the green.



Swing Menu

The Swing Menu can be activated by a long press on the second button from the right in the Play Menu. It controls various visual elements related to your swing arc and swing guide. You can control the following options:

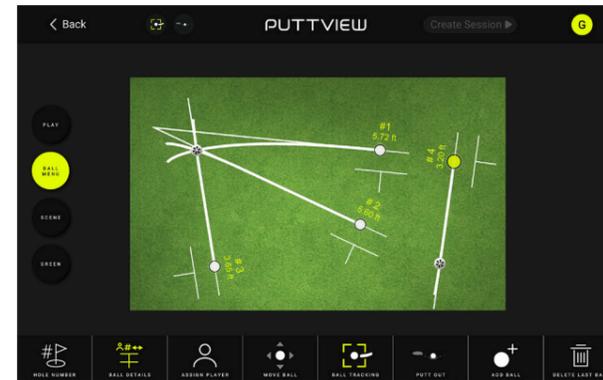
- Activate Arc line, swing length indicators, and other swing arc visuals.
- View a preview display in the center of the screen.
- Toggle the Swing Guide on or off and select your preferred swing style below the preview.
- Use the left slider to configure the curvature of the swing arc.
- Adjust your individual swing tempo with the right slider.
- Control the rhythm with the bottom slider.
- Access the Advanced Settings with the button at the bottom right to further customization.



Ball Menu

The Ball Menu controls all settings in relation to the putts you have set on the green:

- Enable/disable real-time Ball Tracking. Read more on Ball Tracking in section 3.
- Select the hole you want to putt to.
- Enable/disable the presentation of the ball number and/or the distance.
- In Putt Out mode, a missed ball can be played from where it stops instead of resetting to the start. Activate it via the ball menu button or the icon in the upper task bar. Putt Out mode is compatible only with Ball Tracking, for precise single-ball practice in Professional and Random Putts modes.
- Assign a specific player to a certain putt. Please note for a player to be assigned, they need to have an active user profile. If no player is assigned, the puttings stats will be logged under the person currently logged into their account. For more information on how to create a user profile, check section 4.



Place Multiple Balls

- Add and delete up to 6 balls.
- Delete the last ball added by clicking on the 'Delete last ball' toggle.



Move Balls

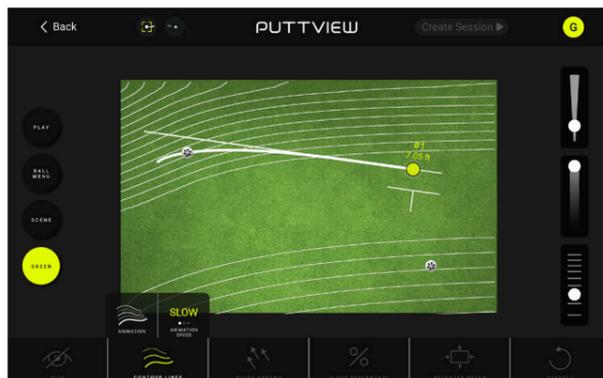
Click on the toggle 'Move Ball' and select the corresponding ball. When selected, the ball can be moved with a tap to the desired position on the green. Alternatively, a long press can be performed on the ball to be moved until a pin appears, then the ball can be dragged to the desired position on the green.



Scene Menu

View the Scene Menu as your personal free canvas where you can get creative with your practice.

- Choose between selectable shapes or draw freehanded lines onto the green to create obstacles, targets or anything you have in mind for your practice.
- Change Color and Width.
- Save and reload drawings, which we call sketches, to be used at a later point or a different session.
- Please note: A saved sketch includes not only the inserted shapes and drawings, but also the putt position(s) at the time of saving.



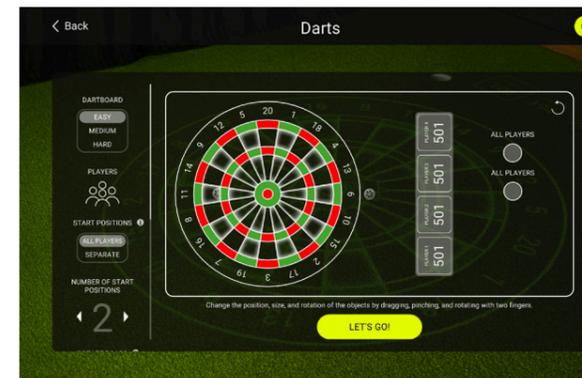
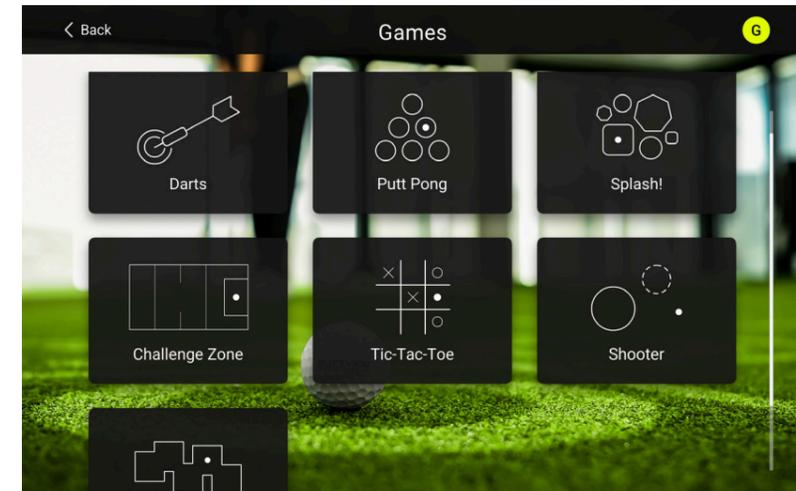
Green Menu

The Green Menu helps you control all green related settings which help you visualize the break on the green.

- Enable/disable Contour Lines and longpress the Contour Line button to adjust the number of projected lines, the brightness, thickness, and animation of them.
- The Slope Arrows visualize the direction of the slope on the green.
- Slope Percentage adds the break percentage to each Slope arrow, giving you an idea of the actual break percentage.

2.1.3 Games

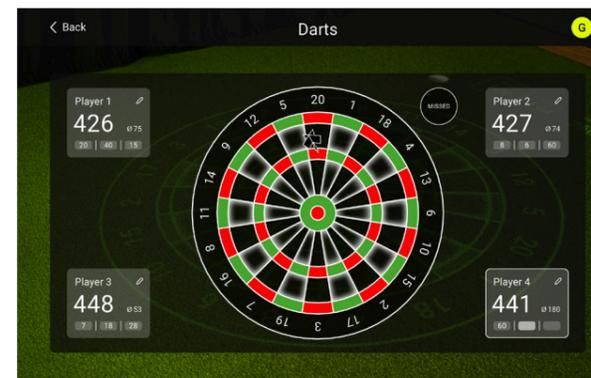
In Game Mode you will find well-known and varied games with which you can have fun practicing your putting skills. Save your successes on the leaderboards and compete with others or beat your own scores.



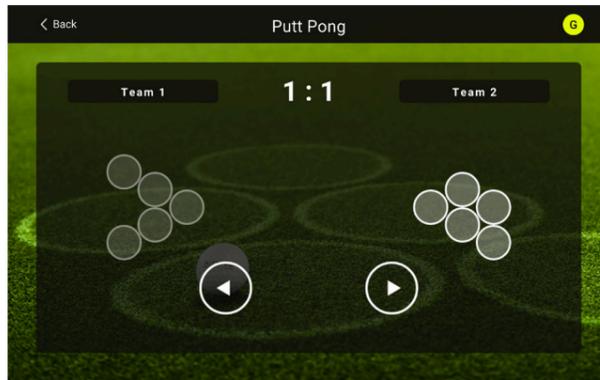
Darts

In Darts, you can adjust game settings through the menu on the left. Here, set the dartboard difficulty (field size), number of players, starting positions, points, board rotation, checkout mode, and elimination mode. Tooltips offer more details on each setting with a click.

In the main area, use touch to adjust the dartboard and scoreboard size and position. Move items by dragging with one finger, or resize by pinching with two fingers. The arrow at the top right resets elements to default.

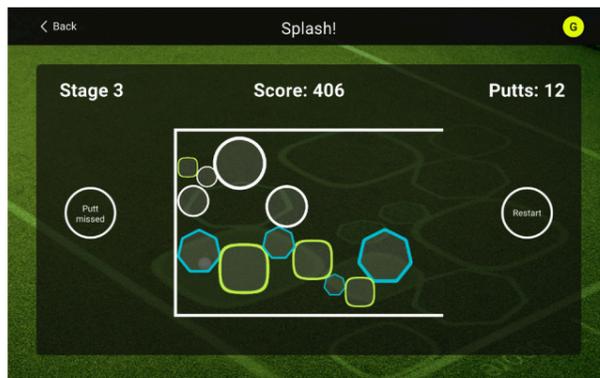


Each round gives you three putts to reduce your points to zero. The scorecard shows total points, and individual scores per round are listed. Without Ball Tracking, click the scored segment to view and select the correct field. Adjust scores manually by clicking on the desired score, and edit player names via the pencil icon next to the name.



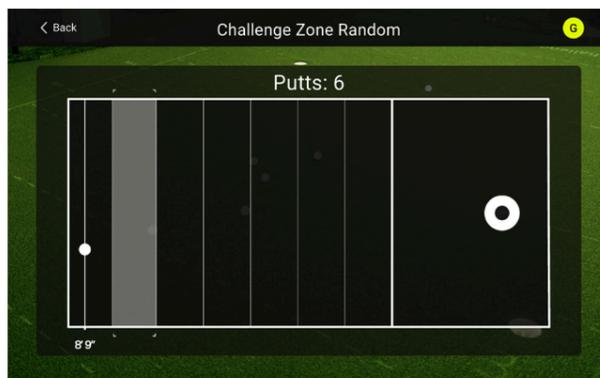
Putt Pong

Initially, you can select how many cups (e.g. 3,6 or 10) you would like to play. Since this is a multiplayer game, you can assign team names to each side before the game starts. Simply click on the cup on the tablet to make it disappear in case your ball didn't get tracked correctly during game play.



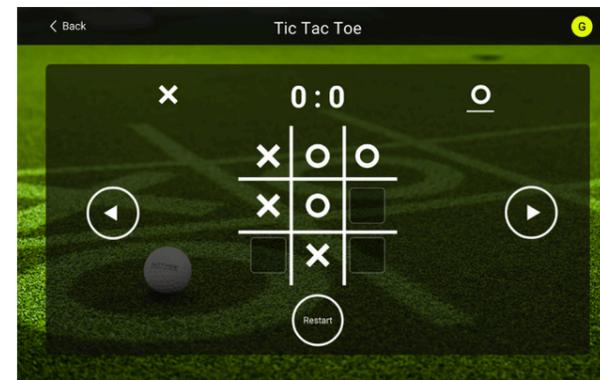
Splash!

This is a single-player game with the aim of scoring as many points as possible by bursting the bubbles and clearing the stages. Bubbles of a certain shape can burst as a group and give you a points boost, by skilfully bursting bubbles you can create chains of the same shape. The smaller and the further away the bubble is, the more points you score. But keep an eye on your remaining putts. With each stage you get a set amount of putts which are reduced gradually as you make your way through the stages. Once you have no putts left, the game is over. If your ball was not tracked correctly, you can also pop the bubbles with a click on the tablet.



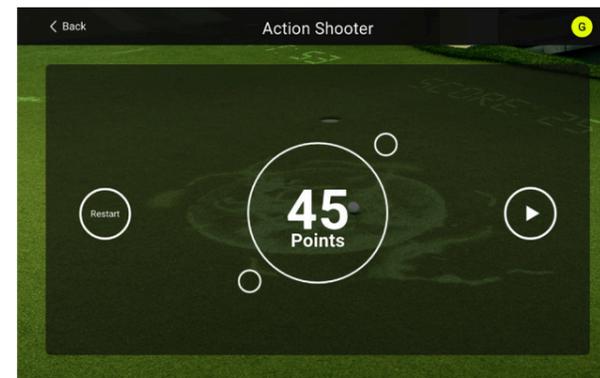
Challenge Zone

Begin by choosing one of the three game modes (Descending, Ascending, or Random). The goal in Descending and Ascending Mode is to play as many putts consecutively longer, or shorter until you fail or run out of space. In Random Mode, you will be shown a zone into which you will have to putt. The zone will change randomly if you manage to hit the previous one.



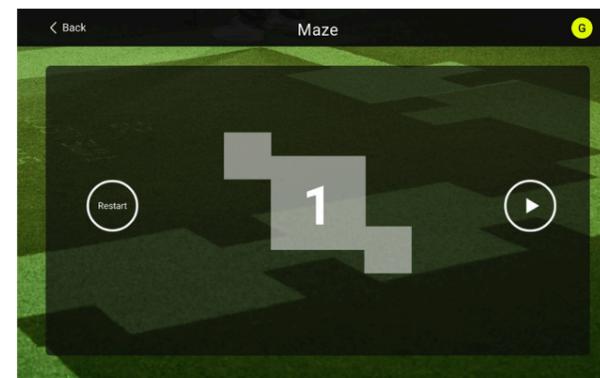
Tic Tac Toe

Before starting the game, you can select which team starts first. This is a multiplayer game with the goal to get three shapes in a horizontal, vertical or diagonal row. In case your ball wasn't tracked correctly, you can simply click on the column on the tablet to add an 'X' or an 'O'.



Shooter

Before starting the game, you can select which mode you want to play, 'Plain Shooter' or 'Action Shooter'. This is a singleplayer game with the goal of destroying the displayed targets by putting into them. Tap on 'Next' to display the next target on the green, if you have no Ball Tracking or your ball has not been tracked correctly. If your Ball Tracking is active and the ball is detected correctly, the next target is automatically displayed. Click on 'Restart' to start from the beginning.



Maze

Maze is a singleplayer game that trains your distance control. The constructed maze shows you the area in which the ball should move from the start to the end point. You have 60 seconds to get through the maze. Tap on 'Next' on the tablet when you have successfully completed the maze to display the next level. Click on 'Restart' to start from the beginning.

Leaderboards



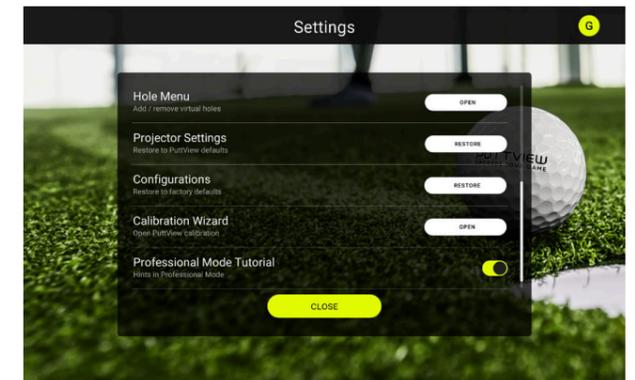
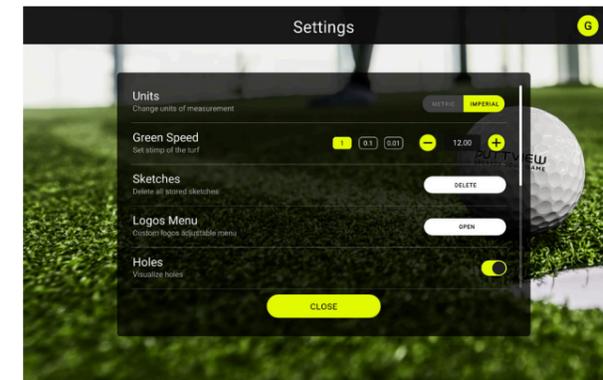
'Shooter', 'Splash!' and 'Challenge Zone' offer you leaderboards for each mode. Here you can track your high scores and beat others or your own. After each game your score will be displayed on the tablet and you will be able to enter your name before saving the game.



You can delete the highscores using the three dots at the top right of the highscore panel. To do this, enter the password. The default password is 20357. After entering the password, the first grey button turns neon and you can clear the scoreboard via the 'Confirm' button.

2.2 Settings

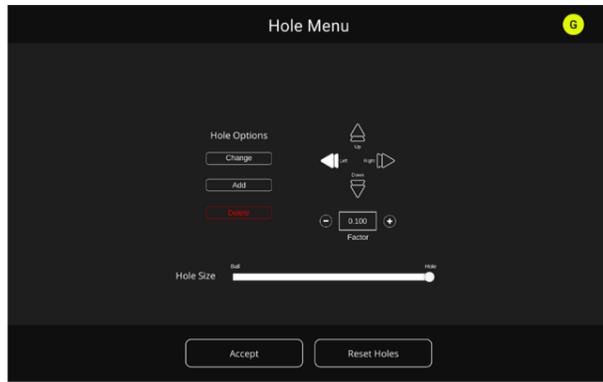
The Settings menu can be accessed through the icon  on the home screen. This menu is protected by a password. The default password is 20357.



Under the Settings menu, you can:

- Change the units to imperial or metric.
- Adjust the Green Speed for your turf (Please be aware this is the basis for the calculation of the lines and is not the same thing as changing the aggressiveness of your putt).
- Delete sketches you have previously saved in the Professional Mode.
- Add a custom logo onto your green.
- Highlight the holes with a visual circle or deactivate the circle.
- **Hole Menu:** Add and Remove virtual holes placed on the green, adjust real holes.
- Restore Projector Settings and Configurations to default (ATTENTION: please contact PuttView support before restoring these settings).
- Enter Calibration Wizard to recalibrate your system (ATTENTION: please contact PuttView support first).
- Switch on/off Professional Mode Tutorial.

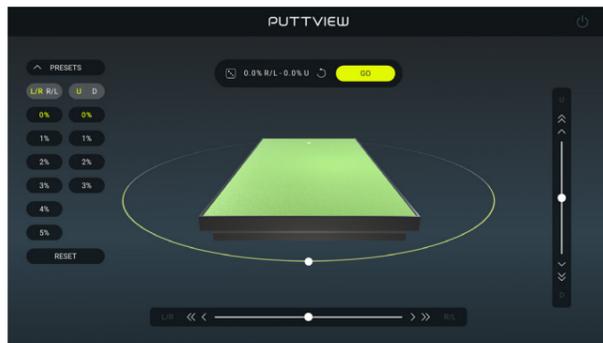
02



Hole Menu for Virtual Holes

- Adjust the location of real and virtual holes in PuttView so that they line up with actual holes on the green.
- Add and delete virtual holes.
- Use 'Change' to select the next hole.
- Move the position of virtual holes with the arrow icons. Use Factor to set how much the hole will be moved in each step.
- Use the slider to set the size of the selected hole. (ATTENTION: If you delete a hole towards which drills are configured, you will no longer be able to access these drills.)

2.3 Modify green (only for Moving Platform customers)



This screen is primarily displayed on the standalone monitor of the moving platform but can also be opened on the tablet at any time by pressing the button on the right side of the screen. To close it on the tablet, simply click the button on the right side again or use the Back button in the upper task bar. The screen shows the current slope of the moving platform. Use the sliders on the right to adjust the up/down slope and the bottom slider to control the side slope. For quick setup, you can also use the presets, which can be expanded from the left side of the screen. Once your settings are in place, click 'Go' to apply them.

03

Ball Tracking: How to enable Ball Tracking

This section provides a step-by-step guide on how the user can enable the Ball Tracking in PuttView.



1. Click on the 'Professional' icon on the home screen from the tablet.
2. Click on 'Ball Menu' button on the left side menu and shortpress on the 'Ball Tracking' button on the bottom menu bar or just click on the icon in the upper task bar to enable/disable Ball Tracking.
3. When Ball Tracking is activated on the tablet, a dashed circle is visible around the ball number on the green. As soon as the ball is detected, this changes to a solid circle. From this moment on, the shot can be played and the ball is tracked.
4. If you do a longpress on the Ball Tracking icon in the lower menu bar, a submenu with two buttons (see 'A,B') will open.



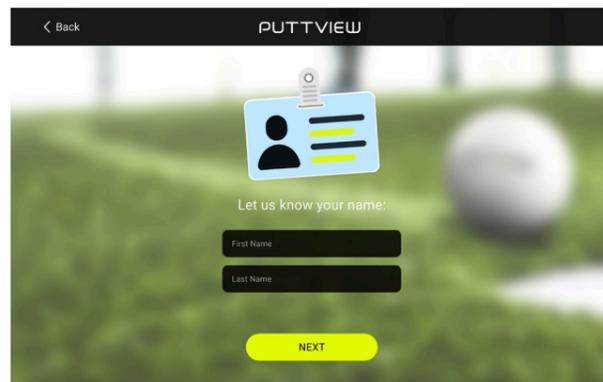
A. This button controls the various display options for the tracked line. It can either not be displayed at all , only disappear when the ball is picked up , or remain visible for 3 seconds after the ball has come to a standstill .

B. This button controls the focus for Ball Tracking. If it is activated, a slider appears on the right-hand side of the screen, with which the intensity of all other lines can be set while Ball Tracking is active. From the moment the ball is detected, until the ball comes to a halt after the shot, all lines except the tracked line will be dimmed down to the intensity you have previously set. Making it easy for you to focus on the shot execution rather than the lines themselves.



04 User Profiles

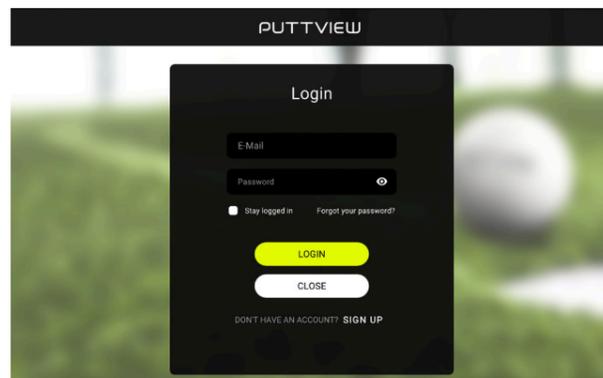
This section provides an overview of how to create a user profile. In addition to all PuttView features, the User Profile gives you access to all your performance statistics and lets you track your improvement over time. You can compare various sessions with each other or simply have an indepth look into a specific session. Find out more about the sessions in section 6.



4.1 Creating a profile

To create a User Profile:

1. Go to the dropdown icon on the top right of the PuttView home screen.
2. Click on the log-in icon.
3. Click on 'Don't have an account? Sign up' at the bottom.
4. Fill in the corresponding fields.
5. Read and accept the terms and conditions and click on 'Create Profile'.
6. An email will be sent to your given email-id for verification.
7. Verify by clicking on the link in the email to access your profile.
8. Note: You need to first verify using the verification link to successfully log in.

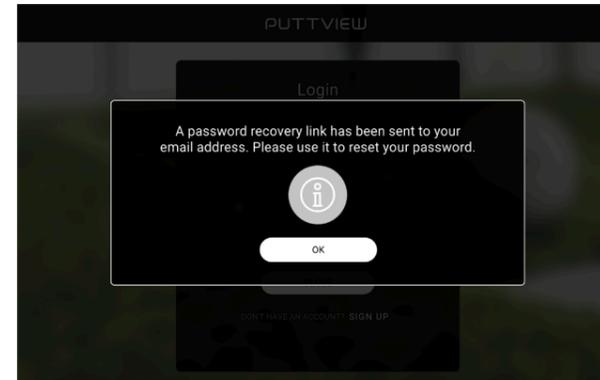


4.2 Log in

To Log in to the profile:

1. Go to the dropdown icon on the top right of the PuttView home screen.
2. Click on the Log in icon to go to the Login screen.
3. Fill in your details and click Log in.

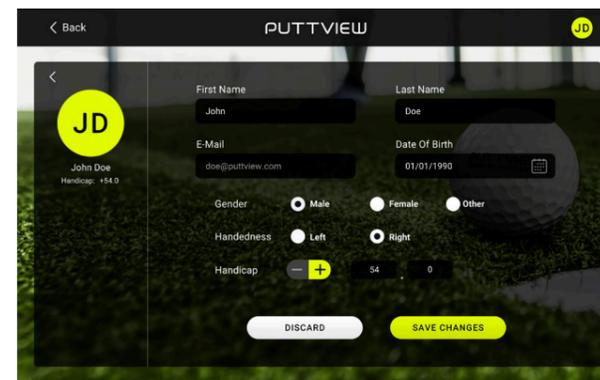
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4.3 Recover password

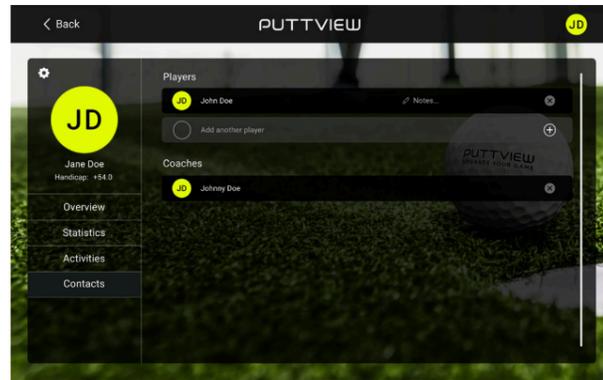
This section provides an overview of what to do in case you forget your password.

1. Go to the dropdown icon on the top right on the home screen.
2. Click on the Log in icon to go to the log in screen.
3. Enter the mail address you used to create your account.
4. Tap on 'Forgot your password?'
5. An email with a 'Recover My Password' link will be sent to the given email address.
6. Click on the link and enter the new password to update the password.



4.4 Modify profile

1. After logging in to the user profile, click on the top right dropdown icon.
2. Click on 'My Profile' to get access to your profile settings.
3. Change the desired fields and click 'Save Changes'.
4. If you want to delete your changes, click on 'Discard'.
5. You can also access your profile settings while being in the Statistics Mode. Click on the 'Statistics' Button on the home screen, and then click on the gear in the top left corner of the menu bar next to your initials to access your profile form there.



4.5 Manage contacts

In order to manage your contacts, you will need to open the statistics from the home screen. The last item in the menu bar on the left is 'Contacts'. When you open this tab, you will find a list with a distinction between 'Players' and 'Coaches'.

Add a contact

You can only add players to your contact list who also have an active PuttView User account. You will then automatically be listed as their coach in their contact list. You can add contacts as follows:

1. Click on the plus sign to the right of the grey line.
2. Enter the contact's email address in the field in the pop-up window (Please be aware this has to be the email address the player used for his PuttView profile).
3. Click on 'Send request'.
4. The requested player needs to verify your request by clicking on the link of the email we sent to them.
5. Refresh your entry frequently by clicking on  in the contact entry to see if the request has been accepted.

Once the request has been approved, you will be able to visit the contact's profile, add notes to them, assign them to balls and play sessions together.

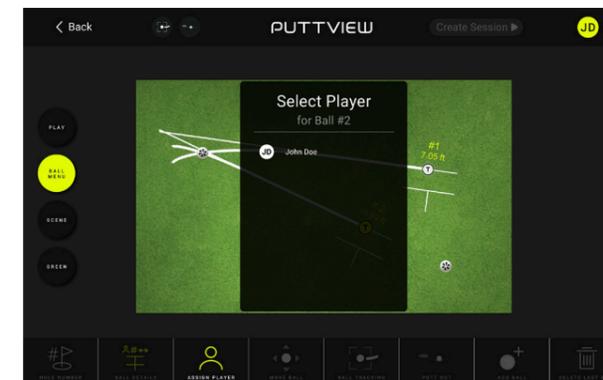
Add contact notes

Once a player has been added to your contact list, you can make notes about them. To make notes:

1. Click on the notes field in the contact entry.
2. Write the note in the pop-up window.
3. Click 'Save changes'.

Delete contacts

You can delete both players and coaches from your contact list. Simply use the cross button to the right of the entry.



4.6 Add a player

If you have already added players to your contacts and they have accepted your invitation, you can play with them on the green. This works as follows:

1. Open Professional Mode.
2. Navigate to the Ball Menu.
3. Add another ball to the green.
4. Click on 'Assign Player'.
5. Select the player from the list

The player's initials will appear on the ball and their name will appear on the green above the ball. You can also start sessions with your contacts, the data of your fellow players will be saved in their respective profiles.

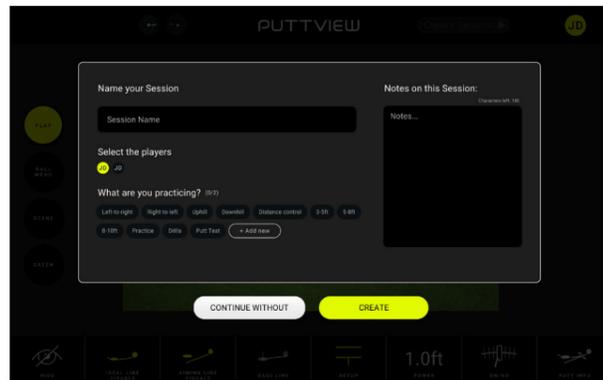
4.7 Log out

To Log out of the profile:

1. Go to the dropdown icon on the top right on the PuttView home screen.
2. Click on the Log out icon to log out.

05 Sessions

This section provides an overview of the sessions in the PuttView app. Sessions allow a user to track their practice performance and record them in their statistics. Users can start sessions for themselves or as a coach for other users in their contact list.



5.1 Professional sessions

To create a session a user needs to log in and go into the Professional Mode. A pop-up menu will ask you directly if you want to create a session. Clicking on the 'Create Session' button will open a new menu, where you can name the session, select the player profiles you might want to add, and add tags to your session such as right-to-left, or left-to-right. The session name will appear in the top-right corner of Professional Mode. Click on the name to review your results of the current session. Click on 'End Session' to save your results before starting a new practice session or game. Be aware, you cannot reactivate old sessions!



5.2 Practice sessions

If the user is logged in and has played at least one putt in one of the predefined drills or random putts, the system will automatically generate a session. The user doesn't need to create it manually. Click on 'Back' to open the Session Result screen. This screen gives you an overview of your results for this session. Save this session by clicking the 'End Practice Session' button or continue your active session by clicking on 'Continue Practice'.

Sessions are also automatically created for the Putt Test. Once the Putt Test is completed, this session must be ended on the Result Screen to enable access to all other PuttView features again.

05



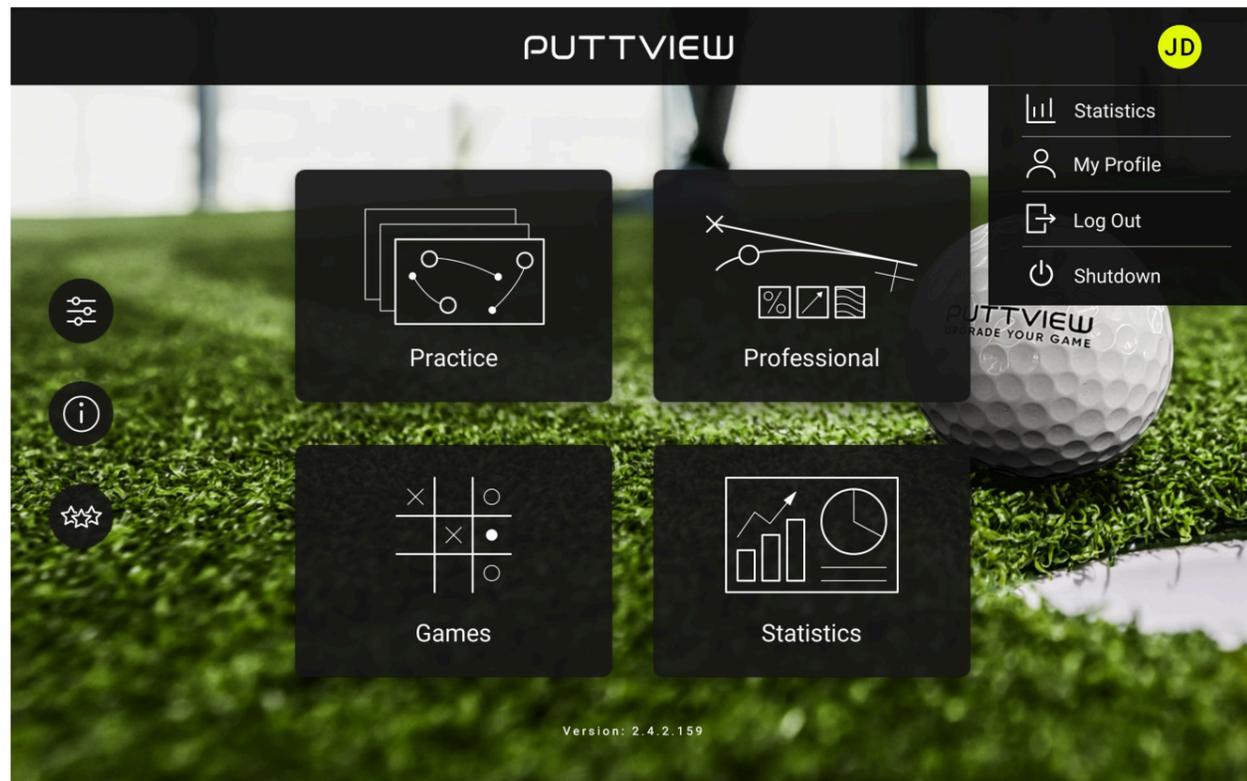
5.3 Session overview

All your sessions will be saved automatically as soon as you played at least one putt. To get an overview of your recent activities (Professional Mode and Practice Mode) go either via the home screen and click on Statistics - Activities, or via the upper right profile button and click on Statistics - Activities.

Users can also delete their sessions by clicking on the upper right x-button on the session card you want to delete (see picture on the left).

06 Statistics

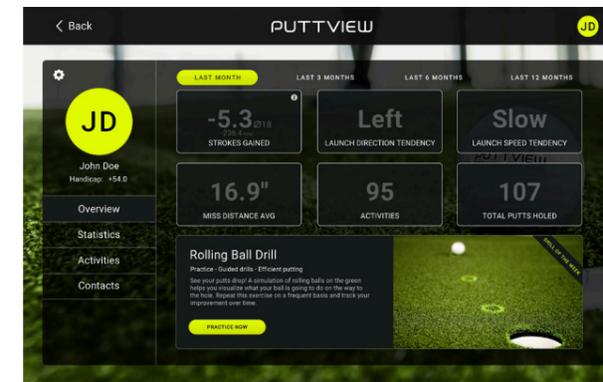
The statistic module contains more information than just the player's statistics. For example, the Session Overview, which can be found under 'Activities', and the 'Contacts', both of which have already been explained in other sections, are also integrated. In this section, the Overview and the various statistics screens and their functions will be explained.



To view the statistics:

- Log in and go to the home screen of PuttView. Click on the statistics icon on the bottom right of the screen to open the statistics tab.
- Alternatively, if you are already logged in, you can use the drop-down menu in the upper task bar to access the statistics or you use the statistics button on the session result screen

06



Overview

Get an overview of your last 1, 3, 6 or 12 months. As shown in the figure, the overview includes:

- Strokes Gained (average over 18 holes and total value)
- Launch Direction Tendency
- Launch Speed Tendency
- Miss Distance Average
- Activities
- Total Putts Holed

Each week, the system selects a new drill that can be initiated directly from the Overview screen. Use the proposed one to train directly the Drill of the Week.

Statistic Screens

The Statistics screens contain the dashboard, the Shot Pattern and the Analyze screen, which can be opened by clicking on the respective tab at the top. The screens contain further features such as tooltips and putt groups, which are explained at the appropriate point. In addition, all Statistic screens contain a filter bar that offers further setting options and whose functionality is explained below.



Filter

The filters can be set on the top of the screen as follows:

- Date - here you can select the date or period you wish to analyse by simply clicking into the date field, select the dates in the calendar and click 'Apply'.
- Session - here you will find a list of all the sessions in the period you have entered. Simply select the sessions you wish to include in the analysis and click 'Apply'. The 'Clear' option allows you to deselect all selected sessions and make a new selection.

You can use the Distance and True Break sliders, as well as the Putt Type drop-down menu, to further refine these values for analysis.



Dashboard

When you open the dashboard, the evaluation of the last saved session is displayed by default; you can change this using the filters.

The dashboard contains various visualisations and key values to give you an overview of the launch direction and launch speed as well as your general performance during the selected session(s). The values marked in neon yellow reflect the ideal value, the values marked in white reflect the exact values played and the area marked in turquoise reflects the main tendency.



Shot Pattern

This gives an overview of the final position of the ball(s) and total putts holed for the selected sessions.

A detailed analysis of the selected putt in the selected group is displayed in the panel on the right-hand side. The putt data can be deleted using the button at the bottom right of the panel. By clicking on 'Analyze', the exact path of the selected putt can be displayed and replayed in the Analyze screen.

The ellipse shows the area in which the balls came to rest most frequently. The ellipse can be displayed with a minimum of 10 balls in a group.



Putt Group Selection

On the Shot Pattern and Analyze screen you have to select a putt group. A putt group includes all putts of the same distance and the same ideal launch direction, which is calculated from the break and the set aggressiveness. All putts in this group are displayed on the green in the Shot Pattern so that they can be compared to each other. You select the group by clicking in the field and scrolling through the list, then click on 'Apply'. Select a specific putt to display its exact values.



Analyze Screen

On the Analyze screen you can see a detailed view of a specific putt. Here too, you must select the group and the desired putt. Using the buttons at the bottom right of the green, you can replay, pause or play the putt endlessly. Click on the arrow at the top right-hand edge of the green to display the exact values of the putt. On the right edge you will find a visualisation of the launch direction and the launch speed of your putt.



Tooltips

There are tooltips on all statistics screens and the overview, which are labelled with the **i** icon behind some key values. Clicking on these icons opens explanations of these key values and clicking again closes them.

07

PuttView Start-Up and Shut-Down

7.1 Manual Start-Up

Assuming the system has been shut down completely or is not running yet, please carry out the following steps in the given order to start PuttView Indoor. If the system is already running and is in Standby Mode (the typical status after the installation has been completed), please continue with Section 7.2.

Projector(s) and Computer

1. Switch on the computer and wait for Windows to boot. PuttView should start automatically when the PC is booted.
2. Wait for the initialization sequence to complete, i.e. until there is no 'Starting PuttView' visible on the green.
3. Wait for the initialization sequence to complete, i.e. until there is no 'Starting PuttView' visible on the green.
4. Continue with the steps in Section 7.2.

7.2 Automatic Start-Up and Shut-Down

Once the PuttView app has been started according to Section 7.1, the app can be controlled entirely using the tablet app.

7.2.1 Starting PuttView from Standby Mode

1. Make sure the tablet is connected to the WiFi-network 'PuttView' (Password: '**ConnectPVIndoor!**')
2. Start the PuttView app located on the home screen of the tablet.
3. On launch, a start-up screen will be shown on the tablet. This screen shows the connection progress and status with the PuttView computer. If the connection succeeds, the start login screen is displayed. Otherwise the system will automatically continue to search for a connection or user can start the PuttView app in Offline Mode.
4. The projector(s) should have started to warm up, i.e. the fan of the projector(s) should be running audibly and a blue light should be flashing. If not, please perform some actions on the tablet, e.g. move the ball or change some of the visual settings. If the projector(s) does not react accordingly, you can switch on the projector(s) manually using the remote control. Also, please refer to Section 7.1 for instructions on the manual startup procedure or to Section 8 for advice on troubleshooting.

7.2.2 Shut-Down into Standby Mode

In Standby Mode, the computer keeps running, the projector(s) is switched off, and the tablet app is shut down.

1. Close the PuttView app on the tablet using the shutdown button (⏻) in the upper task bar dropdown menu.
2. The projector(s) should shut down automatically. If it does not, switch it off manually after a few seconds (press power button twice).
3. Keep the computer and PuttView software running.
4. Please remember to charge the tablet while it is not in use.

7.2.3 Offline Mode

Offline Mode of the PuttView tablet app lets the user explore part of PuttView's features and controls on the tablet without connecting to a PuttView system.

Please Note: Not all features and settings are displayed in Offline Mode. Once in Offline Mode, the tablet app will not be able to connect with the PuttView computer.

7.3 Complete Shut-Down

To control the computer, use the Logitech Media Keyboard (combined Keyboard and Touchpad for Mouse input).

1. Close the PuttView app on the tablet using the shutdown button (⏻) in the upper task bar dropdown menu.
2. Quit PuttView on your computer.
3. Projector(s) shutting down automatically, in case the projector doesn't switch off automatically after a few seconds switch it off manually (press power button twice).
4. Shut down the computer.

08

Troubleshooting

Issue	Reason	Solution
PuttView application on the Computer is running, but Projector doesn't project any PuttView visuals	The projector was probably not supplied with power before PuttView was started.	<ul style="list-style-type: none">• Make sure the wiring of the system has not been changed.• Close the PuttView application on the Computer and restart it using the Shortcut 'PuttView' on the Desktop.• If that didn't resolve the issue, please make sure that Windows has detected the projector properly (right-click on Desktop -> Display Settings).
The Tablet application is stuck in loading on the initial app screen	Tablet App can't connect to the PuttView Application on the Computer	<ul style="list-style-type: none">• Make sure the Tablet is connected to the Wi-Fi with SSID 'PuttView'. (On the Home Screen, Swipe down from the top of the Screen and Press+Hold the Wi-Fi button on the very left. Afterward, select the Wi-Fi 'PuttView' and enter the password 'ConnectPVIndoor!').• Make sure the PuttView Application on the Computer is running. In case the PuttView Application or the Computer is not responding, restart the computer and wait for PuttView to start automatically 2 minutes after the reboot. Before you reboot, please make sure that the projector is switched on.• Make sure the computer is connected to the Router with an ethernet cable.• Restart the Tablet App completely, i.e. close the App by pressing the 'Recents' key and then close the PuttView App by swiping it to the top. Restart the app and verify if it successfully establishes a connection.• In case there is still no connection, reboot the Tablet.
Ball Tracking is not working		<ul style="list-style-type: none">• Ensure that the camera's view is unobstructed. The camera must be able to see the green surface and the ball.• Ball-Tracking performance may be reduced under insufficient or uneven lighting conditions. The same applies to poor lighting conditions such as uneven light or cast shadows on the green.• If a message appears on the screen saying 'No Camera Found' after the Ball Tracking is activated, please restart the PuttView software and if that does not work contact PuttView support.

PUTTVIEW
UPGRADE YOUR GAME

Contact:

Viewlicity GmbH
Schäferkampsallee 42
20357 Hamburg
Email: support@puttview.com

Represented by:

Lukas Posniak
Christoph Pregizer

Register entry:

Entry in the Handelsregister.
Registering court: Amtsgericht Hamburg
Registration number: HRB 138797

www.puttview.com

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PUTTVIEW INDOOR

User Manual

This manual outlines the features of the PuttView Indoor System, provides detailed startup and shutdown instructions, and includes basic troubleshooting procedures.

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01 Support

PuttView support is available through the following details and during the times mentioned below. Please make sure that TeamViewer is running on the computer and the PuttView tablet is fully charged. Furthermore, please ensure an active internet connection on both the computer as well as the tablet is established.

Email: support@puttview.com

Asia, Middle East, and Europe

+49 40 423 06777

Monday to Friday 09:00 -18:00 (CET/CEST)

Saturday: 15:00 – 19:00 (CET/CEST)

USA

+1 917 267 7815

Monday to Friday 7:00 AM – 1:00 PM (MST)

Saturday: 7:00 AM – 11:00 AM (MST)

02 PuttView Overview

This section provides an overview of how to access and control PuttView's modes and settings using the tablet.



1. Practice:

In the Practice module, you'll find various predefined drills and challenges to improve your putting, some of which may already be familiar to you. Additionally, you can test your performance using the Putt Test or by challenging yourself with Random Putts.

2. Professional:

In this mode, players have the freedom to set up a putt as they wish, and additionally customize all visuals to their individual preferences, adding and adjusting them as needed.

3. Games:

The Games menu includes entertaining classics like Tic-Tac-Toe and Shooter, along with exciting new challenges like Darts. It's a fun way to build your skills and set new high scores.

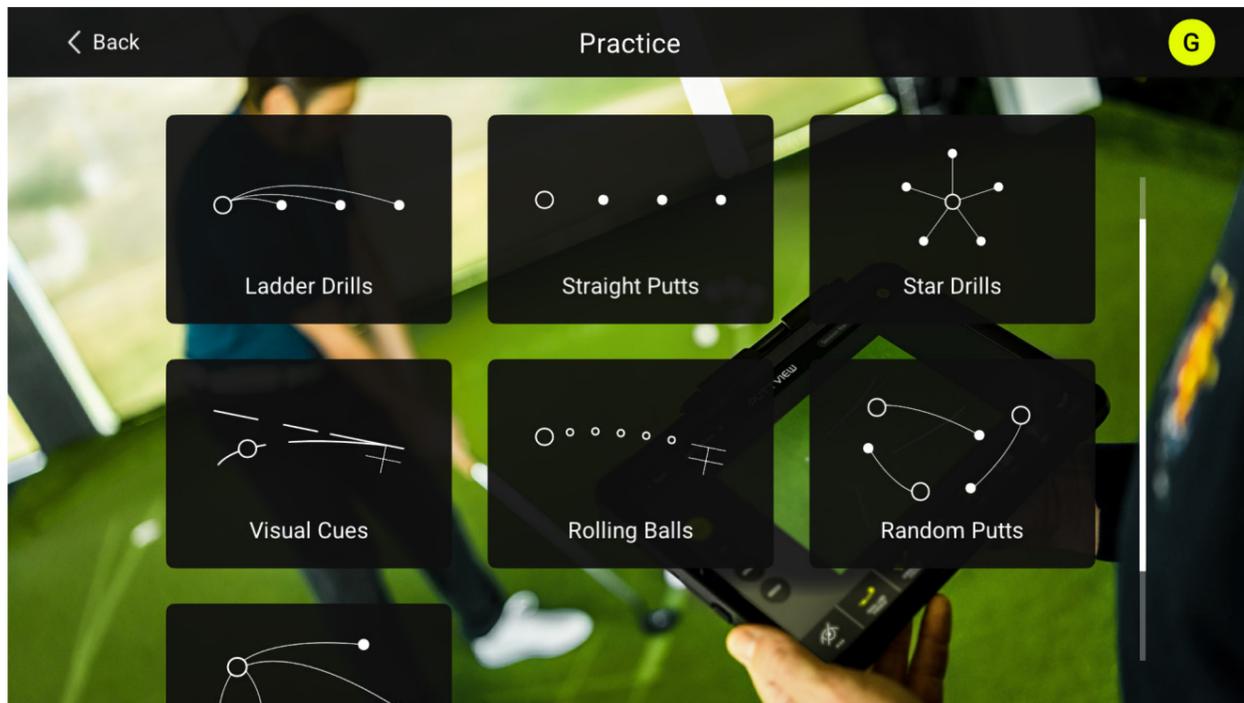
4. Statistics:

The statistics give you an overview of all played putts and your performance over time. To access the statistics, you need an active account (section 4) and sessions (section 5). Read more about the statistics in section 6.

2.1 PuttView Modes

You can switch between modes when you are on the home screen. To get back to the home screen, tap on the 'Back' option in the upper task bar.

2.1.1 Practice

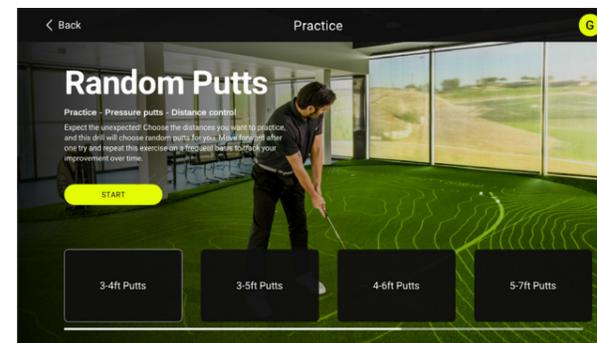


The graphic shows the PuttView practice options. In practice mode, you can find the Putt Test, various drills, and random putt variations.



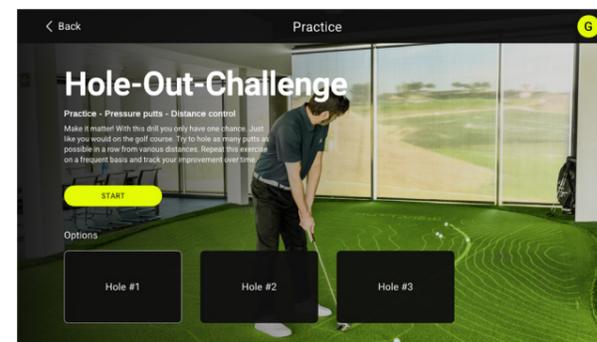
Practice Drills

Sometimes it is difficult to know where to start improving, predefined practice drills (Ladder Drills, Straight Putts, Star Drills, Visual Cues and Rolling Balls) help you overcome that hurdle. You can control the position using the buttons at the top right of the upper task bar, if you do not have Ball Tracking, the ball has not been tracked correctly or you want to replay or skip individual positions. Repeat the exercises frequently and track your improvement.



Random Putts

Doing drills and developing a routine is important, but once you are out on the course, you only have one chance to hole the putt. Decide which distances you want to practice and PuttView will generate random putts within that range. You want a bigger challenge? Select the 'Hole-Out-Challenge' setting to try to hit the selected holes as often as possible in a row and if you miss a putt, the challenge will end automatically. Repeat this exercise on a frequent basis and track your improvement over time.



Hole-Out-Challenge

The Hole-Out-Challenge is about to try to hit the selected holes as often as possible in a row. Repeat this exercise on a frequent basis and track your improvement over time.

2.1.2 Training

The Training Mode offers a highly customizable free practice scenario. Adjust the visualization on the green, create practice scenarios, or get some more Putt Info. You can activate/deactivate the visuals and options with a short press on the buttons.



The Training mode menu bar allows you to:

- Activate and control the Ideal Line, Aiming Line and Setup Lines.
- Adjust the aggressiveness of your putt.
- Move the ball around the green.
- Change the hole you want to putt at.
- Activate and control the Contour Lines.



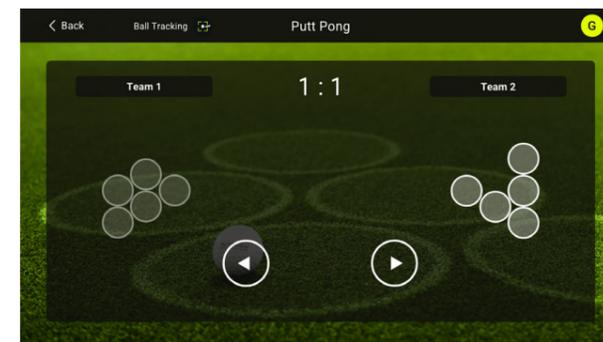
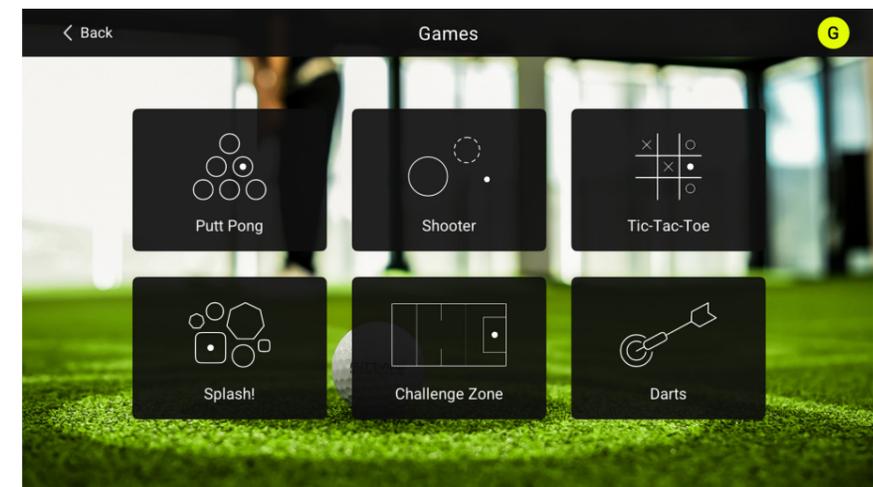
Contour Lines Menu

Visualize the break on the green anticipate how the ball would travel on the green.

- Enable/Disable the Contour Lines.
- Activate directional arrows to visualize the slope direction of the green.
- Show slope percentages, to visualize the exact amount of slope on the green.

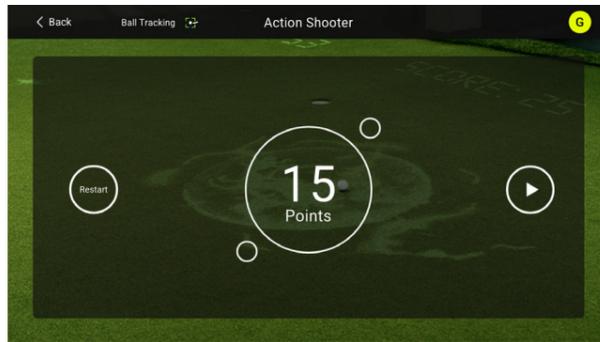
2.1.3 Games

In Game Mode you will find well-known and varied games with which you can have fun practicing your putting skills. Save your successes on the leaderboards and compete with others or beat your own scores.



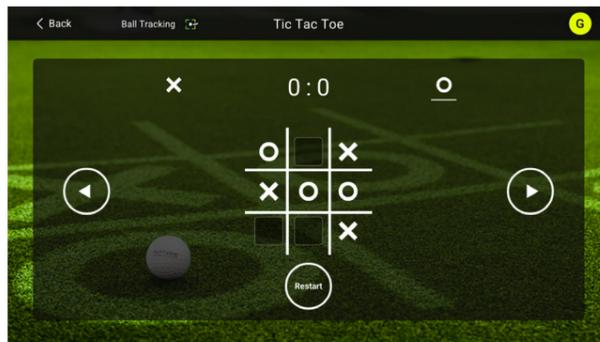
Putt Pong

Initially, you can select how many cups (e.g. 3,6 or 10) you would like to play. Since this is a multiplayer game, you can assign team names to each side before the game starts. Simply click on the cup on the tablet to make it disappear in case your ball didn't get tracked correctly during game play.



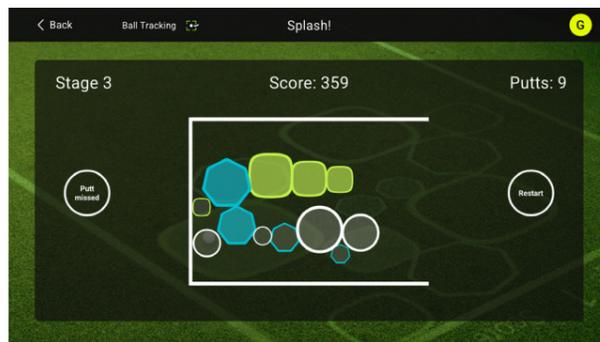
Shooter

Before starting the game, you can select which mode you want to play, 'Plain Shooter' or 'Action Shooter'. This is a singleplayer game with the goal of destroying the displayed targets by putting into them. Tap on 'Next' to display the next target on the green, if you have no Ball Tracking or your ball has not been tracked correctly. If your Ball Tracking is active and the ball is detected correctly, the next target is automatically displayed. Click on 'Restart' to start from the beginning.



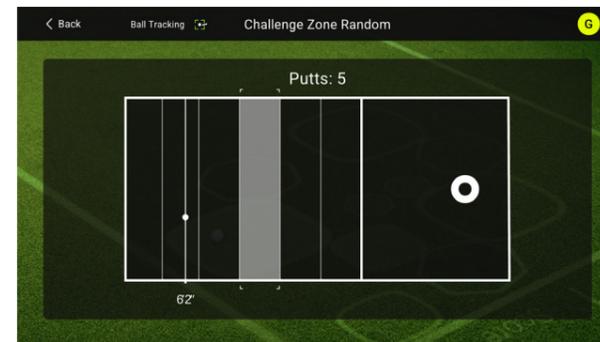
Tic Tac Toe

Before starting the game, you can select which team starts first. This is a multiplayer game with the goal to get three shapes in a horizontal, vertical or diagonal row. In case your ball wasn't tracked correctly, you can simply click on the column on the display to add an 'X' or an 'O'.



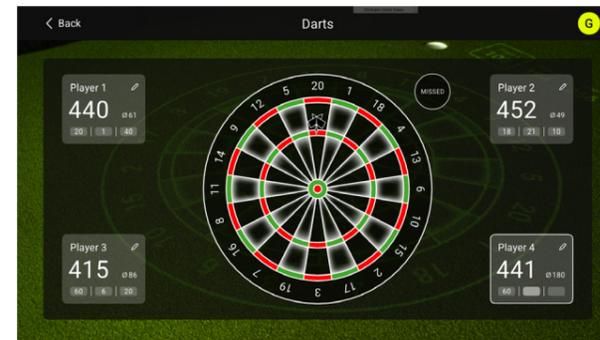
Splash!

This is a single-player game with the aim of scoring as many points as possible by bursting the bubbles and clearing the stages. Bubbles of a certain shape can burst as a group and give you a points boost, by skilfully bursting bubbles you can create chains of the same shape. The smaller and the further away the bubble is, the more points you score. But keep an eye on your remaining putts. With each stage you get a set amount of putts which are reduced gradually as you make your way through the stages. Once you have no putts left, the game is over. If your ball was not tracked correctly, you can also pop the bubbles with a click on the tablet.



Challenge Zone

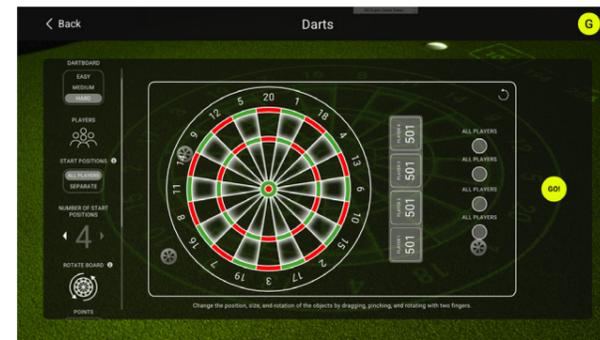
Begin by choosing one of the three game modes (Descending, Ascending, or Random). The goal in Descending and Ascending Mode is to play as many putts consecutively longer, or shorter until you fail or run out of space. In Random Mode, you will be shown a zone into which you will have to putt. The zone will change randomly if you manage to hit the previous one.



Darts

In Darts, you can adjust game settings through the menu on the left. Here, set the dartboard difficulty (field size), number of players, starting positions, points, board rotation, checkout mode, and elimination mode. Tooltips offer more details on each setting with a click.

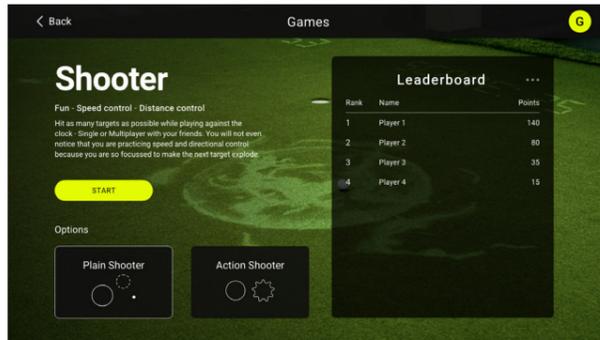
In the main area, use touch to adjust the dartboard and scoreboard size and position. Move items by dragging with one finger, or resize by pinching with two fingers. The arrow at the top right resets elements to default.



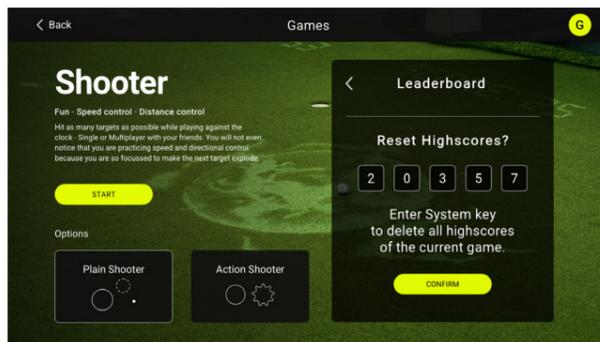
Each round gives you three throws to reduce your points to zero. The scorecard shows total points, and individual scores per round are listed. Without Ball Tracking, click the scored segment to view and select the correct field. Adjust scores manually by clicking on the desired score, and edit player names via the pencil icon next to the name.

02

Leaderboards



'Shooter', 'Splash!' and 'Challenge Zone' offer you leaderboards for each mode. Here you can track your high scores and beat others or your own. After each game your score will be displayed on the display and you will be able to enter your name before saving the game.

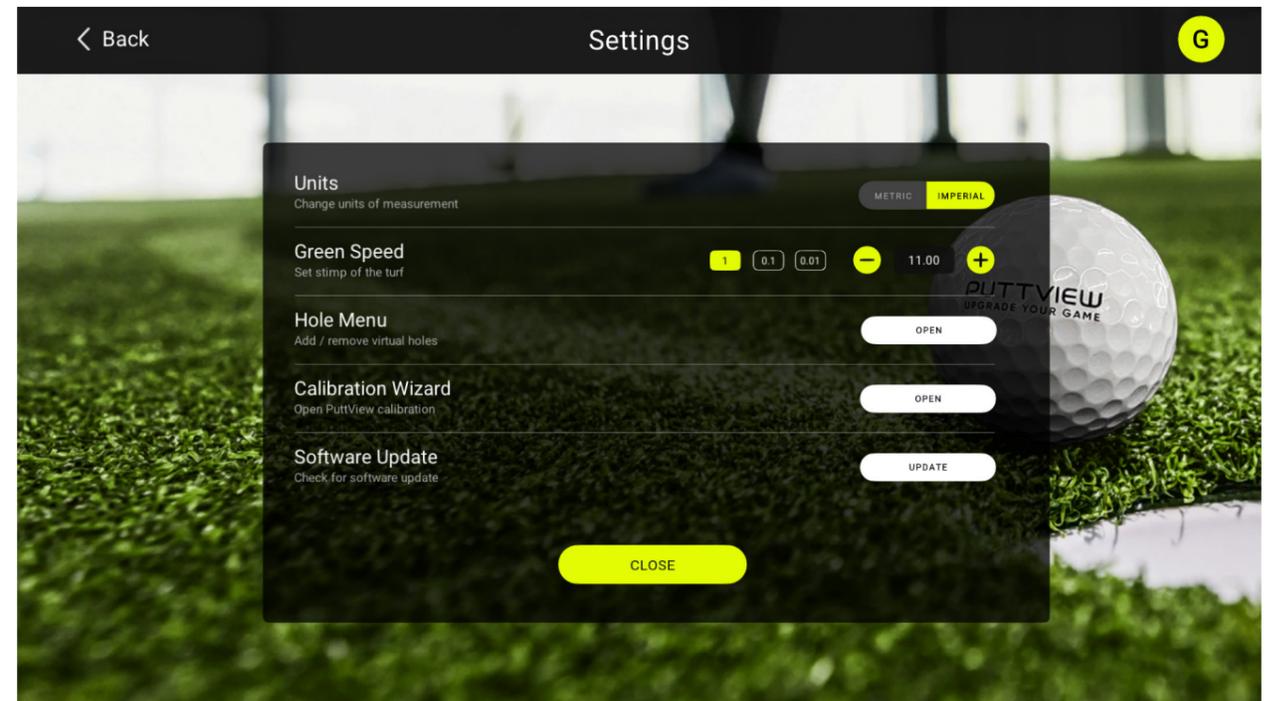


You can delete the highscores using the three dots at the top right of the highscore panel. To do this, enter the password. The default password is 20357. After entering the password, the first grey button turns neon and you can clear the scoreboard via the 'Confirm' button.

2.2 Settings

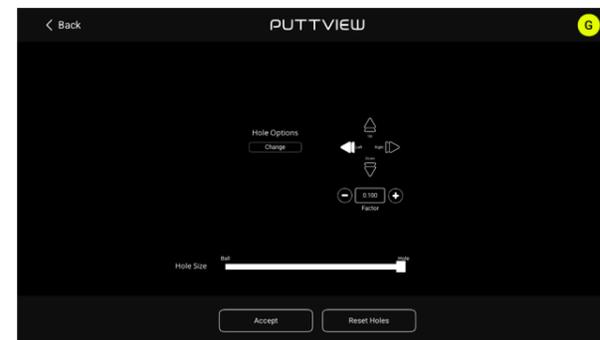
The Settings menu can be accessed through the icon  on the home screen. This menu is protected by a password. The default password is 20357.

02



Under the Settings menu, you can:

- Change the units to imperial or metric.
- Adjust the Green Speed for your turf (Please be aware this is the basis for the calculation of the lines and is not the same thing as changing the aggressiveness of your putt).
- **Hole Menu:** Add and Remove virtual holes placed on the green, adjust real holes.
- Enter Calibration Wizard to recalibrate your system (ATTENTION: please contact PuttView support first).
- Check for software updates.



Hole Menu for Virtual Holes

- Adjust the location of real and virtual holes in PuttView so that they line up with actual holes on the green.
- Add and delete virtual holes.
- Use 'Change' to select the next hole.
- Move the position of virtual holes with the arrow icons. Use Factor to set how much the hole will be moved in each step.
- Use the slider to set the size of the selected hole. (ATTENTION: If you delete a hole towards which drills are configured, you will no longer be able to access these drills.)

03

Ball Tracking: How to enable Ball Tracking

This section provides a step-by-step guide on how the user can enable the Ball Tracking in PuttView.



1. Click on the 'Training' icon on the home screen from the tablet.
2. Click on 'Ball Menu' button on the left side menu and shortpress on the 'Ball Tracking' button on the bottom menu bar or just click on the icon in the upper task bar to enable/disable Ball Tracking.
3. When Ball Tracking is activated on the tablet, a dashed circle is visible around the ball number on the green. As soon as the ball is detected, this changes to a solid circle. From this moment on, the shot can be played and the ball is tracked.
4. If you do a longpress on the Ball Tracking icon in the lower menu bar, a submenu with two buttons (see 'A,B') will open.



04

User Profiles

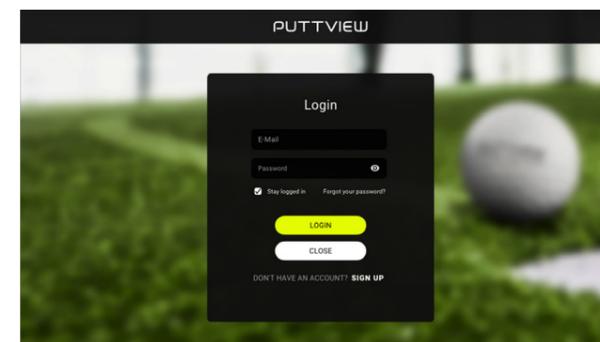
This section provides an overview of how to create a user profile. In addition to all PuttView features, the User Profile gives you access to all your performance statistics and lets you track your improvement over time. You can compare various sessions with each other or simply have an indepth look into a specific session. Find out more about the sessions in section 6.



4.1 Creating a profile

To create a User Profile:

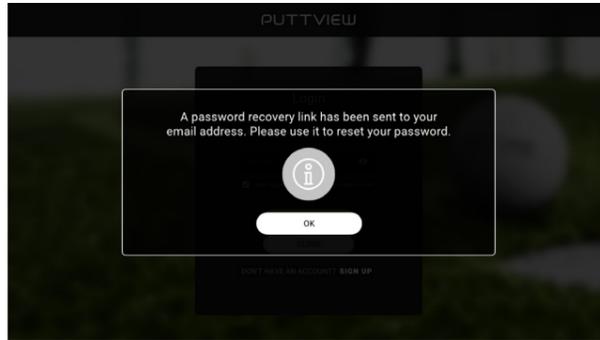
1. Go to the dropdown icon on the top right of the PuttView home screen.
2. Click on the log-in icon.
3. Click on 'Don't have an account? Sign up' at the bottom.
4. Fill in the corresponding fields.
5. Read and accept the terms and conditions and click on 'Create Profile'.
6. An email will be sent to your given email-id for verification.
7. Verify by clicking on the link in the email to access your profile.
8. Note: You need to first verify using the verification link to successfully log in.



4.2 Log in

To Log in to the profile:

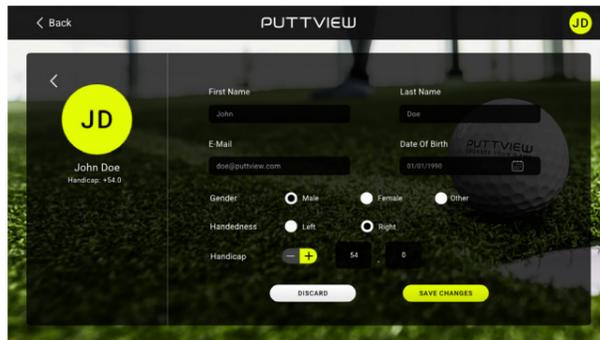
1. Go to the dropdown icon on the top right of the PuttView home screen.
2. Click on the Log in icon to go to the Login screen.
3. Fill in your details and click Log in.



4.3 Recover password

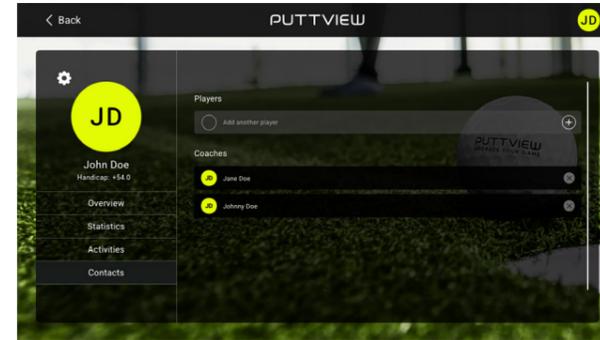
This section provides an overview of what to do in case you forget your password.

1. Go to the dropdown icon on the top right on the home screen.
2. Click on the Log in icon to go to the log in screen.
3. Enter the mail address you used to create your account.
4. Tap on 'Forgot your password?'
5. An email with a 'Recover My Password' link will be sent to the given email address.
6. Click on the link and enter the new password to update the password.



4.4 Modify profile

1. After logging in to the user profile, click on the top right dropdown icon.
2. Click on 'My Profile' to get access to your profile settings.
3. Change the desired fields and click 'Save Changes'.
4. If you want to delete your changes, click on 'Discard'.
5. You can also access your profile settings while being in the Statistics Mode. Click on the 'Statistics' Button on the home screen, and then click on the gear in the top left corner of the menu bar next to your initials to access your profile form there.



4.5 Manage contacts

In order to manage your contacts, you will need to open the statistics from the home screen. The last item in the menu bar on the left is 'Contacts'. When you open this tab, you will find a list with a distinction between 'Players' and 'Coaches'.

Add a contact

You can only add players to your contact list who also have an active PuttView User account. You will then automatically be listed as their coach in their contact list. You can add contacts as follows:

1. Click on the plus sign to the right of the grey line.
2. Enter the contact's email address in the field in the pop-up window (Please be aware this has to be the email address the player used for his PuttView profile).
3. Click on 'Send request'.
4. The requested player needs to verify your request by clicking on the link of the email we sent to them.
5. Refresh your entry frequently by clicking on  in the contact entry to see if the request has been accepted.

Once the request has been approved, you will be able to visit the contact's profile, add notes to them, assign them to balls and play sessions together.

Add contact notes

Once a player has been added to your contact list, you can make notes about them. To make notes:

1. Click on the notes field in the contact entry.
2. Write the note in the pop-up window.
3. Click 'Save changes'.

Delete contacts

You can delete both players and coaches from your contact list. Simply use the cross button to the right of the entry.

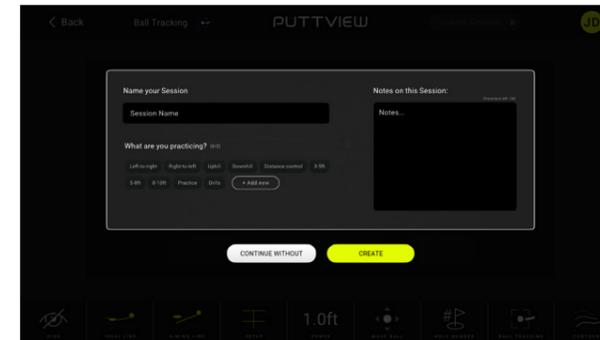
04

4.6 Log out

1. Go to the dropdown icon on the top right on the PuttView home screen.
2. Click on the Log out icon to log out.

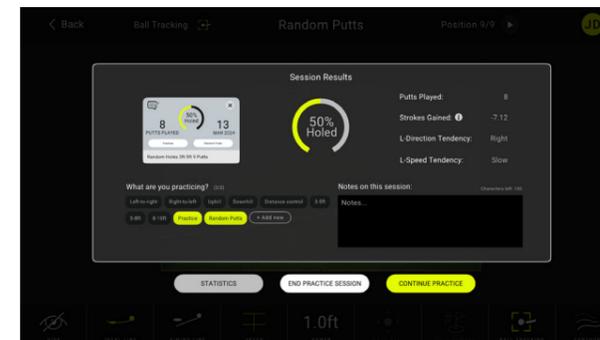
05 Sessions

This section provides an overview of the sessions in the PuttView app. Sessions allow a user to track their practice performance and record them in their statistics.



5.1 Training sessions

To create a session a user needs to log in and go into the Professional Mode. A pop-up menu will ask you directly if you want to create a session. Clicking on the 'Create Session' button will open a new menu, where you can name the session, select the player profiles you might want to add, and add tags to your session such as right-to-left, or left-to-right. The session name will appear in the top-right corner of Professional Mode. Click on the name to review your results of the current session. Click on 'End Session' to save your results before starting a new practice session or game. Be aware, you cannot reactivate old sessions!



5.2 Practice sessions

If the user is logged in and has played at least one putt in one of the predefined drills or random putts, the system will automatically generate a session. The user doesn't need to create it manually. Click on 'Back' to open the Session Result screen. This screen gives you an overview of your results for this session. Save this session by clicking the 'End Practice Session' button or continue your active session by clicking on 'Continue Practice'.

Sessions are also automatically created for the Putt Test. Once the Putt Test is completed, this session must be ended on the Result Screen to enable access to all other PuttView features again.



5.3 Session overview

All your sessions will be saved automatically as soon as you played at least one putt. To get an overview of your recent activities (Training Mode and Practice Mode) go either via the home screen and click on Statistics - Activities, or via the upper right profile button and click on Statistics - Activities.

Users can also delete their sessions by clicking on the upper right x-button on the session card you want to delete (see picture on the left).

The statistic module contains more information than just the player's statistics. For example, the Session Overview, which can be found under 'Activities', and the 'Contacts', both of which have already been explained in other sections, are also integrated. In this section, the Overview and the various statistics screens and their functions will be explained.



To view the statistics:

- Log in and go to the home screen of PuttView. Click on the statistics icon on the bottom right of the screen to open the statistics tab.
- Alternatively, if you are already logged in, you can use the drop-down menu in the upper task bar to access the statistics or you use the statistics button on the session result screen



Overview

Get an overview of your last 1, 3, 6 or 12 months. As shown in the figure, the overview includes:

- Strokes Gained (average over 18 holes and total value)
- Launch Direction Tendency
- Total Putts Holed
- Launch Speed Tendency
- Miss Distance Average
- Activities

Every week our system selects a new drill that you can start from the Overview screen. Use the proposed one to train directly the Drill of the Week.



Filter

The filters can be set on the top of the screen as follows:

- Date - here you can select the date or period you wish to analyse by simply clicking into the date field, select the dates in the calendar and click 'Apply'.
- Session - here you will find a list of all the sessions in the period you have entered. Simply select the sessions you wish to include in the analysis and click 'Apply'. The 'Clear' option allows you to deselect all selected sessions and make a new selection.



Shot Pattern

This gives an overview of the final position of the ball(s) and total putts holed for the selected sessions.

A detailed analysis of the selected putt in the selected group is displayed in the panel on the right-hand side. The putt data can be deleted using the button at the bottom right of the panel.

The ellipse shows the area in which the balls came to rest most frequently. The ellipse can be displayed with more than 10 balls in a group.



Putt Group Selection

On the Shot Pattern you have to select a putt group. A putt group includes all putts of the same distance and the same ideal launch direction, which is calculated from the break and the set aggressiveness. All putts in this group are displayed on the green in the Shot Pattern so that they can be compared to each other. You select the group by clicking in the field and scrolling through the list, then click on 'Apply'. Select a specific putt to display its exact values.



Tooltips

There are tooltips on the shot pattern and the overview, which are labelled with the 'i' icon behind some key values. Clicking on these icons opens explanations of these key values and clicking again closes them.

07

PuttView Start-Up and Shut-Down

7.1 Manual Start-Up

Assuming the system has been shut down completely or is not running yet, please carry out the following steps in the given order to start PuttView Indoor. If the system is already running and is in Standby Mode (the typical status after the installation has been completed), please continue with Section 7.2.

Projector(s) and Computer

1. Switch on the computer and wait for Windows to boot. PuttView should start automatically when the PC is booted. If the app does not start automatically, start it manually from the desktop of the PC.
2. The projector should start to warm up, i.e. the fan of the projector should be running audibly and a blue light should be flashing.
3. On launch of the app, a start-up screen will be shown on the display. This screen shows the connection progress and status with the projector. If the projector is on and the connection succeeds, the home screen is displayed. Otherwise you can switch on the projector(s) manually using the remote control.
4. Wait for the initialization sequence to complete, i.e. until there is no 'Starting PuttView' visible on the green.

7.2 Complete Shut-Down

1. Close the PuttView app on the display using the shutdown button (⏻) in the upper task bar dropdown menu.
2. The projector is shutting down automatically, in case the projector doesn't switch off automatically after a few seconds, switch it off manually (press power button twice).
3. Shut down your computer.

08

Troubleshooting

Issue	Reason	Solution
PuttView application on the Computer is running, but Projector doesn't project any PuttView visuals	The projector was probably not supplied with power before PuttView was started.	<ul style="list-style-type: none"> • Make sure the wiring of the system has not been changed. • Close the PuttView application on the Computer and restart it using the Shortcut 'PuttView' on the Desktop. • If that didn't resolve the issue, please make sure that Windows has detected the projector properly (right-click on Desktop -> Display Settings).
Ball Tracking is not working		<ul style="list-style-type: none"> • Ensure that the camera's view is unobstructed. The camera must be able to see the green surface and the ball. • Ball-Tracking performance may be reduced under insufficient or uneven lighting conditions. The same applies to poor lighting conditions such as uneven light or cast shadows on the green. • If a message appears on the screen saying 'No Camera Found' after the Ball Tracking is activated, please restart the PuttView software and if that does not work contact PuttView support.

PUTTVIEW

UPGRADE YOUR GAME

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