



Realistic indoor training system for clay shooting

What is TrueClays

TrueClays is a state-of-the-art shooting simulator which pushes the absolute boundaries of today's technology to deliver a transparent environment that accurately simulates clay shooting for real at the range.

TrueClays operates at such high accuracy and speed, shot patterns and hit areas are guaranteed to be the same as, or within the tolerances of an actual shotgun, regardless of discipline (including the faster Olympic ones).

TrueClays knows even the slightest error in target presentation will cause your brain to doubt that you are seeing a 'real target'. The immersive TrueClays experience is designed to make the shooter feel that they are shooting on a real range, for example, there will be a clear difference when moving from one side of the stand to the other.

TrueClays processes information about the target so quickly that it not only determines a hit or a miss, and whether the target was hit on the front or rear edge or top or bottom but also sends the broken pieces of the clay in the correct direction upon impact so that the brain learns instantly and all in real time.

As you learn from the real time feedback and start performing micro-corrections, your training will develop unhindered and lead to your full potential without shooting a single live shot!

You will soon feel complete transparency between the real range and the TrueClays simulation.

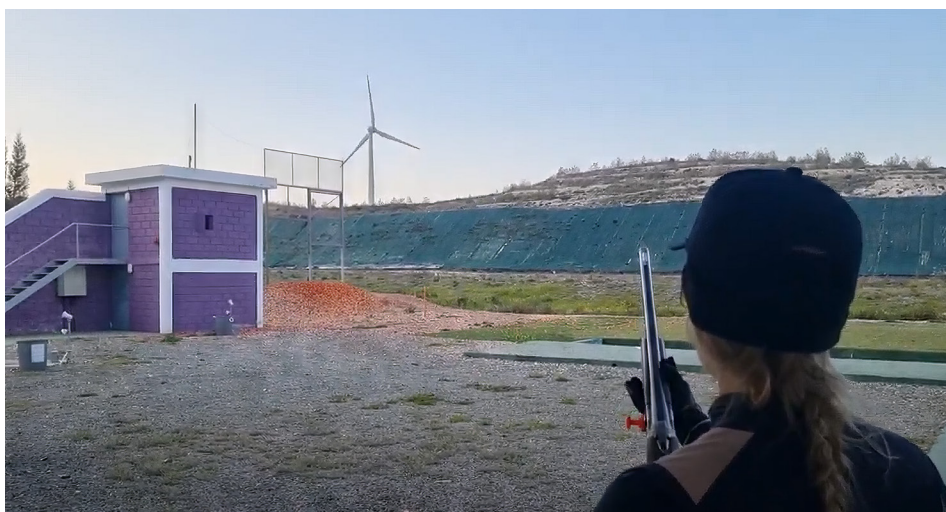


The speed and accuracy of the simulator is impressive, and once you activate other features, such as, fragments from broken clays and distractions from other ranges including the sound of other shooters calling for and shooting targets, you soon realise how your training has the edge over other simulators. You can go much further by adjusting the wind conditions and direction and by selecting the trap manufacturer with its real-life sound. This is particularly useful when preparing for a competition at a specific range. To really test your focus and concentration, you can minimise the sound of the trap altogether!



The simulator offers multiple backgrounds from simple, high contrast to 'messy' real life moving backgrounds which create more complicated challenges.

Actual ranges are simulated in 3D, like this one at Larnaca, Cyprus, with new ranges being added all the time.



Additionally, TrueClays allows shooters to change chokes and select from a range of cartridges to replicate real set-up conditions.

Your cartridge of choice can be configured in the system, while training with tighter chokes is a great way to learn and refine the correct lead.

TrueClays does not simulate random stray pellets that break targets, only genuine hits will produce the desired result so that poor technique is not rewarded.

TrueClays is regularly updated with new features and software updates and the system is under continuous development to improve the experience.

Variants

TrueClays Training System

Full version with all disciplines, 240hz projector coupled with a fast computer to create a smoother target movement.

TrueClays Compact

Special version for Trap disciplines ONLY and Helice ZZ that using smaller screen size and room space.

This is using the same 240hz projector as our full version.

TrueClays Complete

Custom built TrueClays system using two projectors utilising both wall and sloped ceiling or dual sloped ceilings.

The TrueClays Complete is designed and built to meet specific customer requirements and will be installed onsite by TrueClays.



Achievements

TrueClays was purpose-built to help shooters rapidly improve their clay shooting skills.

Before TrueClays was fully released and in the first year of product testing, Fredrik, the TrueClays founder and developer progressed from being an average shooter, to winning gold in the national Olympic Skeet Team. He also gained 5th place in the 2019 Swedish Skeet Championship and won Silver at the 2019 Northwest Island Games in Gibraltar.

Mark Binnermark, a Swedish national Olympic Skeet team shooter, has been providing input and helping with testing the system since the beginning and won three golds in the 2019 Swedish Olympic Skeet Junior Championship, National Skeet Junior Championship and National Skeet Team. He also became the holder of the Swedish Junior Qualification Record in 2022 with a score of 122/125. Mark was also ranked #1 in Sweden for Olympic Skeet in 2023.



Lisette Hederstedt started shooting in April 2022, and with no previous shooting skills used the TrueClays system to train and shoot about 75,000 shots on the simulator in her first year.

In August 2023, she took the silver medal in the Swedish Olympic Skeet Championship.



In the UK, GBR team shooters Phoebe Bodley-Scott and Jessica Hambrook have also trained on the TrueClays simulator, both have seen a real improvement. Phoebe became the Junior British and European Qualification record holder in 2023 in Croatia with a 120/125, while Jessica used the simulator to help change her technique and post a personal best of 113/125 at the 2024 European Championships in Lonato. Both continue to train with TrueClays today.



Phoebe Bodley-Scott



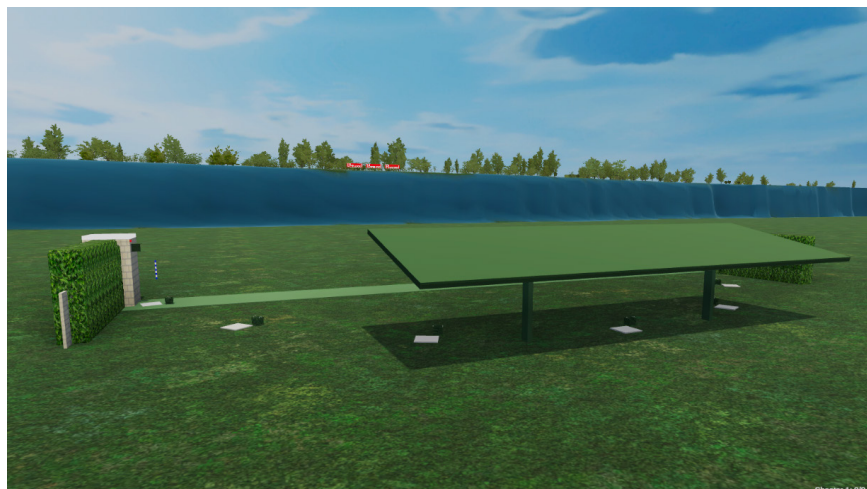
Jessica Hambrook

Skeet

TrueClays supports all Olympic Skeet formats, including Pre-Event Training (PET), qualification rounds and finals with reverse pairs. NSSA American Skeet, English skeet and German Hunting Skeet disciplines are also available. These can all be practiced on a range of international layouts. Additional layouts can be added on request.

A range of backgrounds can be selected for the skeet formats with ISSF lights on the high and low trap houses. Target speeds can be adjusted from slow to fast enabling practice at different speeds and emulating the small speed differences from one range to another. Running the simulator in slow-motion allows training for the correct lead; the correct lead is still required in the slow-motion mode.

In all skeet disciplines, you can manually select any stand and practice a single or pairs of targets that you might be having difficulty with. You can train on a single stand continuously to enable a full understanding of the correct movement and lead.



There is a lot of skeet specific functions.

You are free to train a single stand over and over.

The system allows you to run slow-motion speed with real life lead which allows you to really train that target.



See more: trueclays.com/skeet/

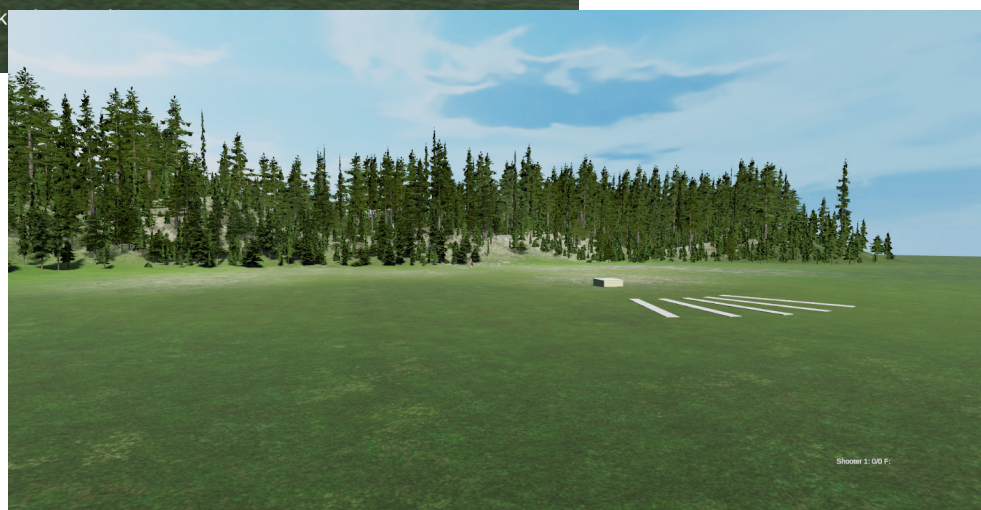
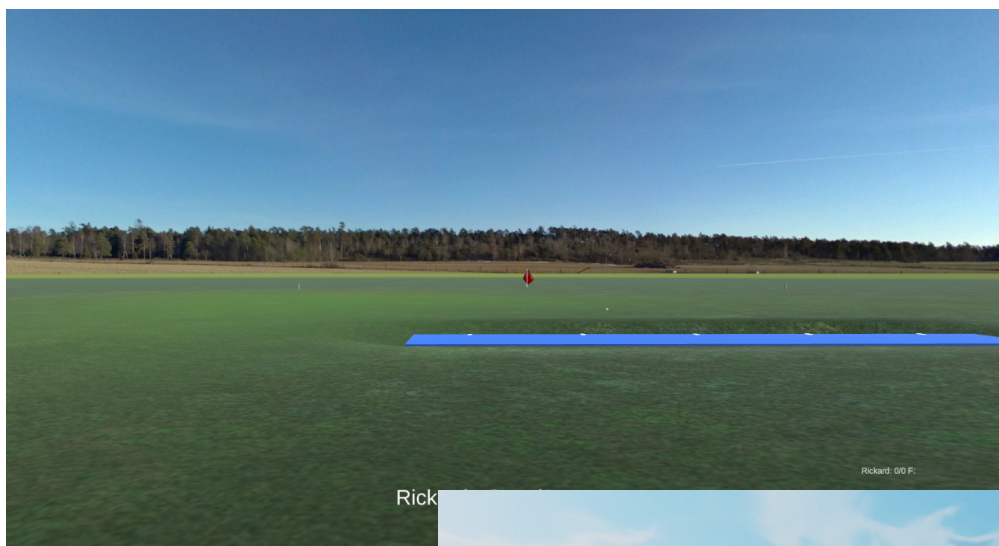


Trap

TrueClays supports many trap disciplines including Olympic Trap, Nordic Trap, ABT, Universal Trench and Double Trap, as well as the ATA disciplines of Continental, Singles, Doubles and Wobble.

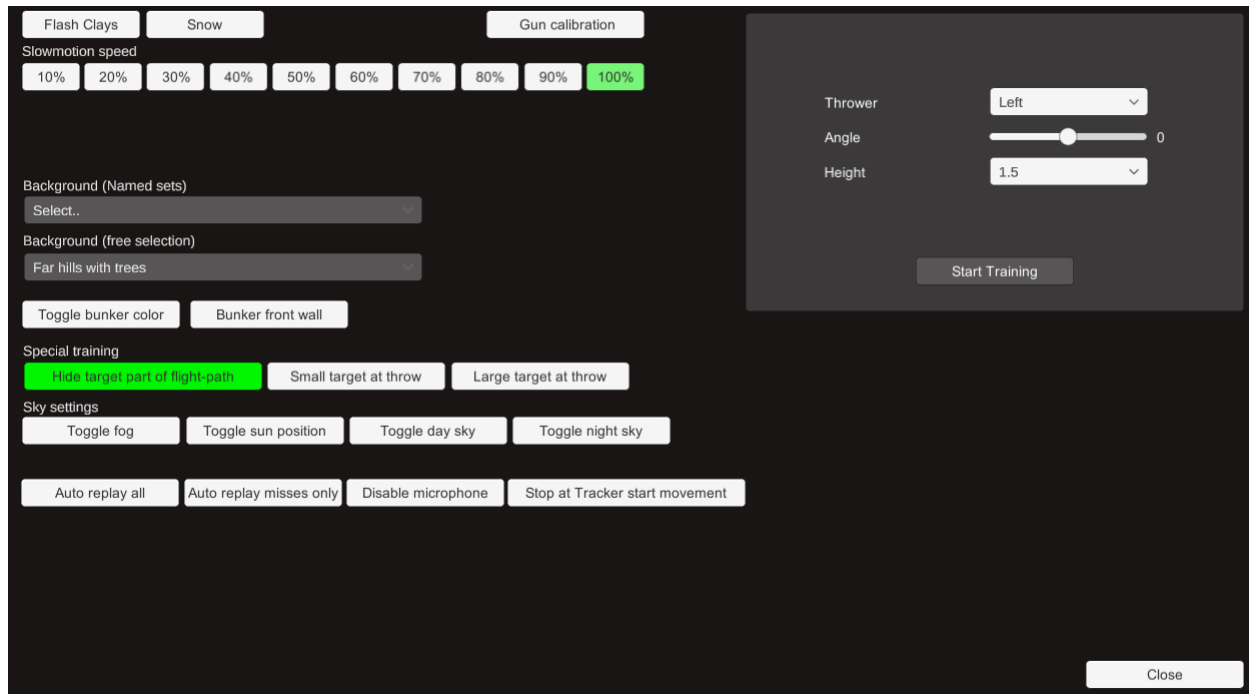
TrueClays also supports Down the Line (DTL) and German Hunting Trap. The ATA & DTL trap allows you to set the yard handicap setting for each shooter.

In Olympic Trap, Universal Trap & Double Trap all available tables are provided which the shooter can select before starting the round.



In the Trap module you also can see various Trap specific functions.

You can train your specific target in Olympic Trap by setting the throwers angle and height.



you can also set other items like sunposition, change backgrounds, set special functions like hiding the clay at throw so you train on every possible scenario that you will encounter in real life, even let the snow fall.

See more online: trueclays.com/trap/

Sporting

TrueClays presents a real challenge when it comes to the sporting disciplines. All possible target types are catered for including teal, decoys, loopers, rabbits, quartering target and more.

There are endless possible combinations, and every session will be different. TrueClays simulates different sporting variants, i.e. English Sporting, Compak, FITASC and Sportrap.



See more: trueclays.com/sporting

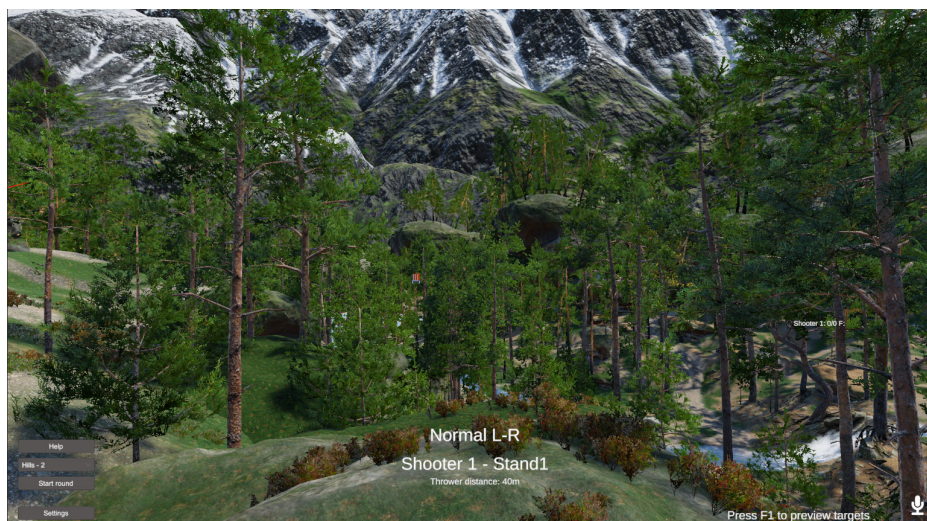




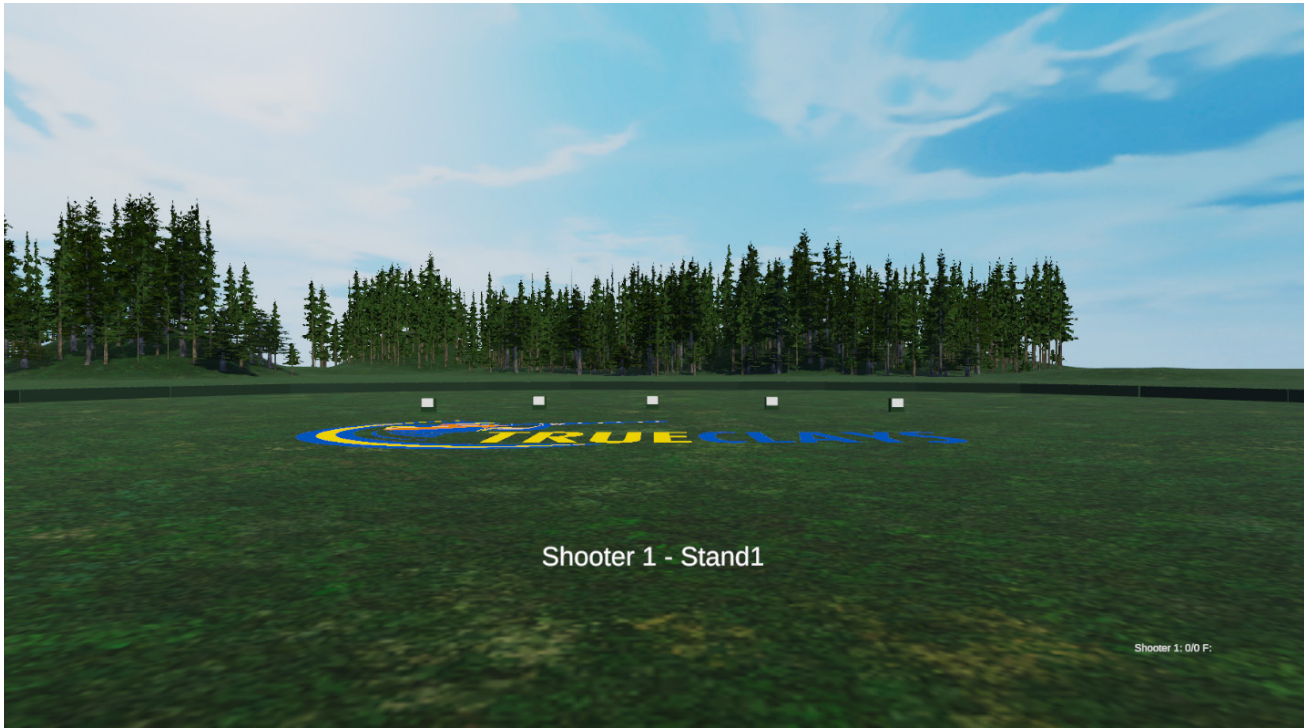
Within each Sporting variant there are several different layouts and courses.

New courses are added regularly so that there are always new challenges.

For more experienced shooters, various wind and weather conditions can be configured which will affect how the targets fly.



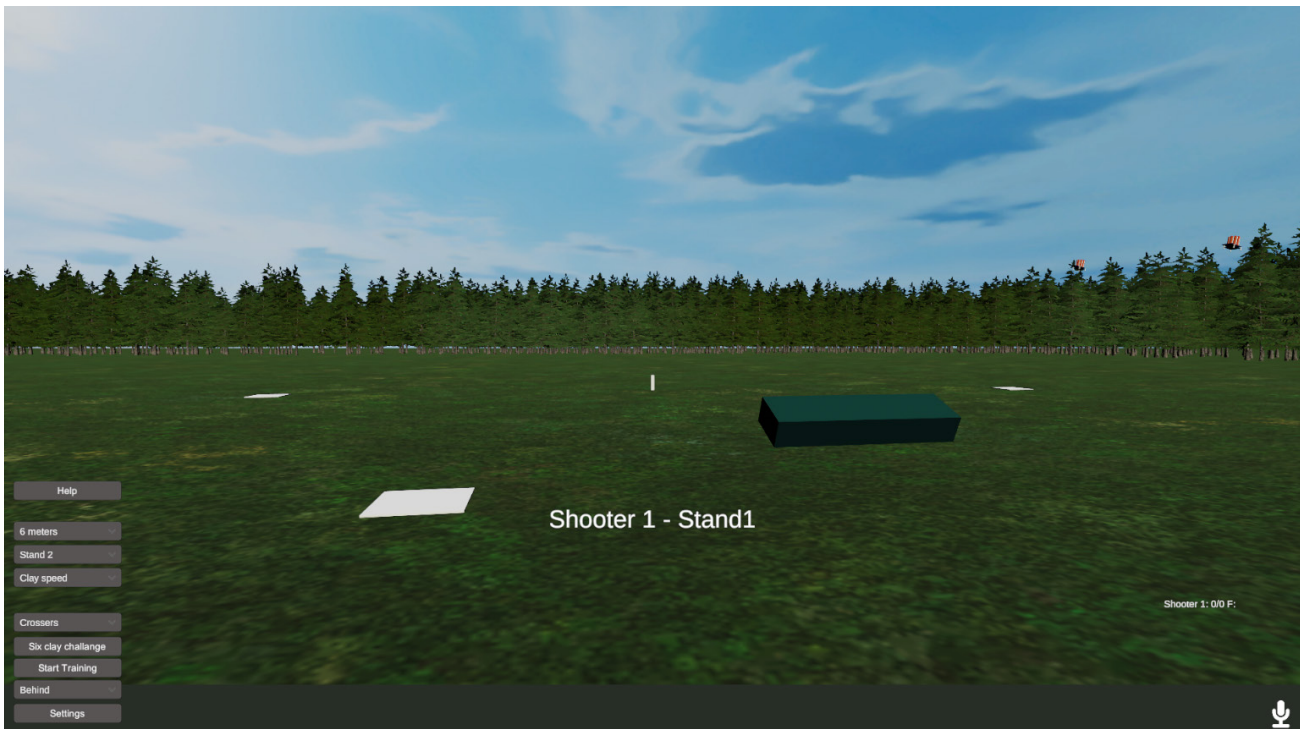
Helice/ZZ



TrueClays offers one of the most interesting and unpredictable disciplines - Helice.

Helice is French for propellor and mimics the unpredictable flight of a real bird. In the system configuration you can set different target angles and speeds to cater for different levels of ability all the way up to very challenging Helice targets.

Beginners corner



The beginners' corner is a single simple trap where you can easily change the speed, move the shooting stand around the trap to change the angle and teach a new shooter how to hit a simple target. This is the perfect starting point for anyone trying the simulator for the first time or for someone new into the sport of clay target shooting.

Statistics

The system keeps track of your progress while using the simulator, you can check your performance for the session or see your data and statistics from historical sessions.

Report name: **Last 30 days** From date: 2023-09-30

| Type | Force total | Total hits | Total targets | Hit ratio % | First shot hit | Second shot hit | Total shots |
|--------------|-------------|------------|---------------|-------------|----------------|-----------------|-------------|
| OlympicTrap | 3 575 | 1 | 10 | 10 | 1 | 4 | 14 |
| OpenTraining | | | 11 | 0 | | | 8 |
| | | | | | | | 22 |

Report name: **Last 90 days** From date: 2023-08-01

| Type | Force total | Total hits | Total targets | Hit ratio % | First shot hit | Second shot hit | Total shots |
|------------------|-------------|------------|---------------|-------------|----------------|-----------------|-------------|
| English_Sporting | 2 915 | 1 | 4 | 25 | 1 | | 2 |
| OlympicTrap | 3 575 | 1 | 10 | 10 | 1 | 4 | 14 |
| OpenTraining | | | 11 | 0 | | | 8 |
| | | | | | | | 24 |

Report name: **This year** From date: 2023-01-01

| Type | Force total | Total hits | Total targets | Hit ratio % | First shot hit | Second shot hit | Total shots |
|-------------------------|-------------|------------|---------------|-------------|----------------|-----------------|-------------|
| CompakSporting | 134 629 | 33 | 56 | 58,93 | 24 | | 55 |
| CompakSportingTraining | 186 157 | 36 | 48 | 75 | 19 | | 48 |
| English_Sporting | 1 073 688 | 201 | 313 | 64,22 | 97 | | 310 |
| FITASC_SportingTraining | 2 000 036 | 400 | 587 | 68,14 | 206 | | 617 |
| OlympicSkeet | 1 849 363 | 547 | 650 | 84,15 | 363 | | 678 |
| OlympicTrap | 3 575 | 1 | 10 | 10 | 1 | 4 | 14 |
| OpenTraining | 39 415 998 | 10 070 | 13 129 | 76,7 | 5 549 | | 13 051 |
| SkeetFinal20 | 2 984 031 | 824 | 982 | 83,91 | 420 | | 990 |
| | | | | | | | 15763 |

Squad

Squad layout, for more options use configuration

| | | | | | |
|--|---------------------|------------------|-------|-----------|------------------|
| <input checked="" type="checkbox"/> Fredrik Melin | Cylinder / Cylinder | Change Choke-set | Stats | Calibrate | Test calibration |
| <input type="checkbox"/> Shooter1 | Cylinder / Skeet | Change Choke-set | Stats | Calibrate | Test calibration |
| <input checked="" type="checkbox"/> Lisette Hederstedt | Cylinder / Skeet | Change Choke-set | Stats | Calibrate | Test calibration |
| <input type="checkbox"/> Björn | Cylinder / Skeet | Change Choke-set | Stats | Calibrate | Test calibration |
| <input type="checkbox"/> Shooter 5 | | | | | |
| <input type="checkbox"/> Shooter 6 | | | | | |

Use checkbox to include/exclude in Squad

Configuration

A real advantage of the TrueClays system is the ability to shoot in squads of up to 6 shooters.

Each shooter will create a profile with their personal settings and configuration, for example, barrel length, cartridge type etc.

Each shooter will need a shot laser and trigger unit.

Current squad: Fredrik Melin Clear squad list

Filter: Clear filter Add new

All shooters: Fredrik Melin Remove

Eye height at shooting stance (cm): cm in

Name: ☒ Visible in Squad list

ATA Handicap:

Override Halo setting (individual):

Override clay color (individual):

☐ Color blind mode

per Shooter Perceived Lead adjustment, see documentation before changing this value.
-40 to +40
Negative number = less lead
Positive number = larger lead

First barrel: Choke: Cartridge: POI above Zero: mm in POI measured at: meter feet Bead <-> center barrel: mm in Barrel length: mm in

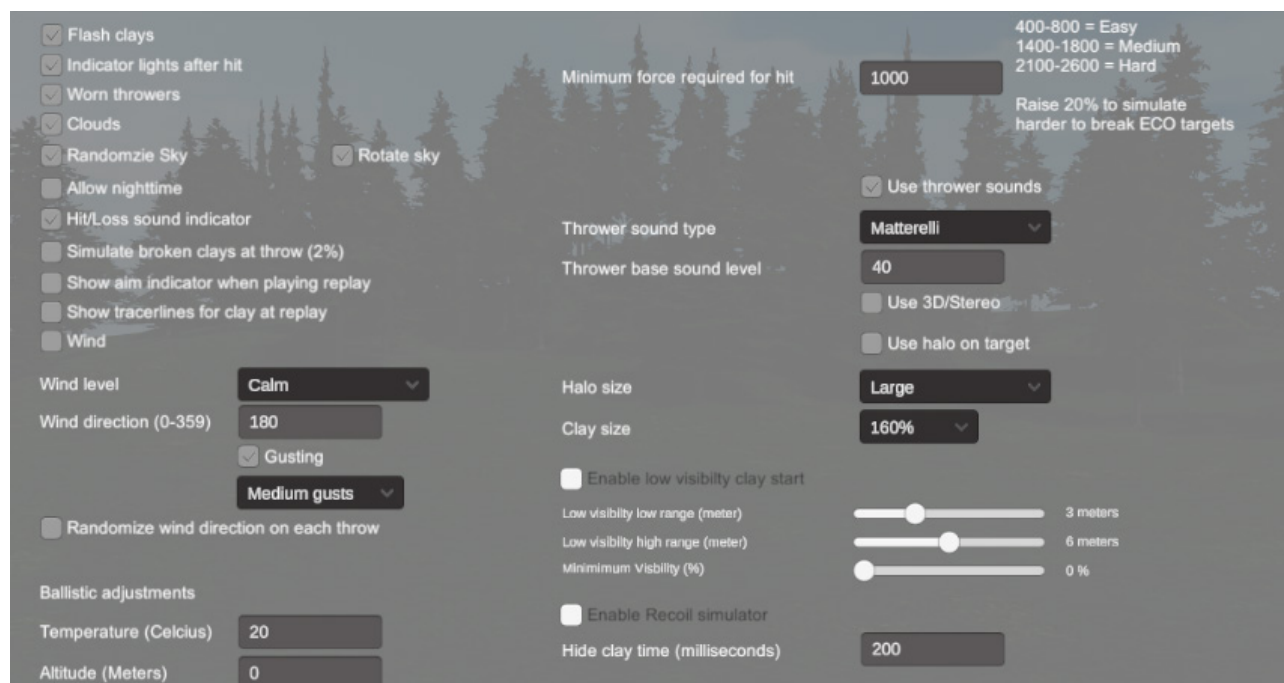
Second barrel: Choke: Cartridge: POI above Zero: mm in POI measured at: meter feet Bead <-> center barrel: mm in Barrel length: mm in

Stand placement:

Upper left Upper center Upper right
Center left Center Center right
Lower left Lower center Lower right

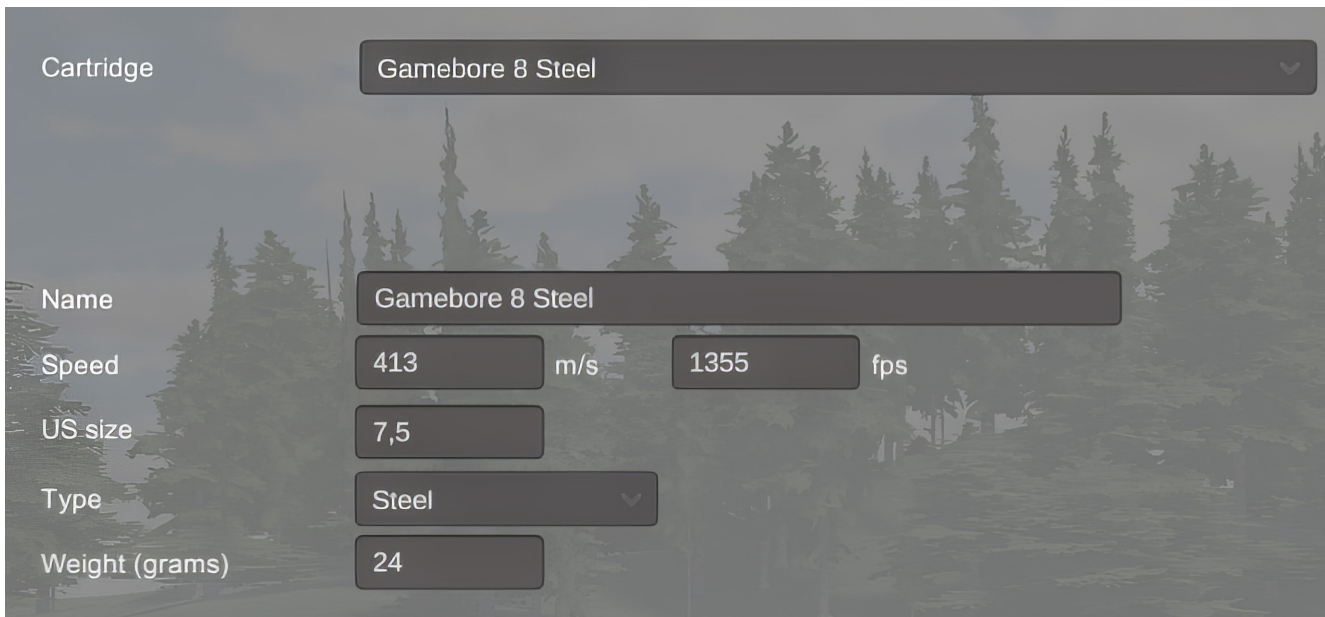
Apply Cancel

There is an impressive number of advanced settings that can be configured in the system, from wind direction and speed, flash clays for OSK and OT finals, to trap type, sound and % of broken clays during a round.



Cartridges

Do you have a favourite cartridge? No problem. Just enter the manufacturers' data into TrueClays and the ballistics engine will calculate the shot performance accordingly. The cartridge library will be pre-loaded with some popular cartridges, you can continue to add to the list and select different cartridges for different disciplines.

A screenshot of a web application interface for entering cartridge data. The background is a blurred image of a forest. The form consists of several input fields with labels on the left. The 'Cartridge' label is above a dropdown menu showing 'Gamebore 8 Steel'. The 'Name' label is above a text input field also containing 'Gamebore 8 Steel'. The 'Speed' label is above two input fields: the first contains '413' and is followed by 'm/s', the second contains '1355' and is followed by 'fps'. The 'US size' label is above an input field containing '7,5'. The 'Type' label is above a dropdown menu showing 'Steel'. The 'Weight (grams)' label is above an input field containing '24'.

| | | |
|----------------|------------------|----------|
| Cartridge | Gamebore 8 Steel | |
| Name | Gamebore 8 Steel | |
| Speed | 413 m/s | 1355 fps |
| US size | 7,5 | |
| Type | Steel | |
| Weight (grams) | 24 | |

Package Specification

TrueClays comes as a complete hardware package, including:

- TrueClays main processing unit with keyboard and mouse
- Projector with ceiling mount bracket
- Numeric keypad
- Microphone
- Shot registration camera
- Trigger box with laser
- Universal trigger unit

TrueClays hardware components are perfectly matched to operate together as a system. This means that it is not possible to change hardware components such as projector or processing unit with alternative components. TrueClays is an integrated, high specification turnkey solution designed and optimised for maximum performance.

The Projector Tripod mount (optional) is illustrated below.

24



The projector is designed with cameras mounted and calibrated before shipping; one camera for detecting the shot on the screen, the other optional camera, is for barrel movement analysis.



Triggers

We will supply you with a couple of generic triggers suitable to fit any gun.



We can also supply you with custom made triggers, designed specifically to fit your gun.



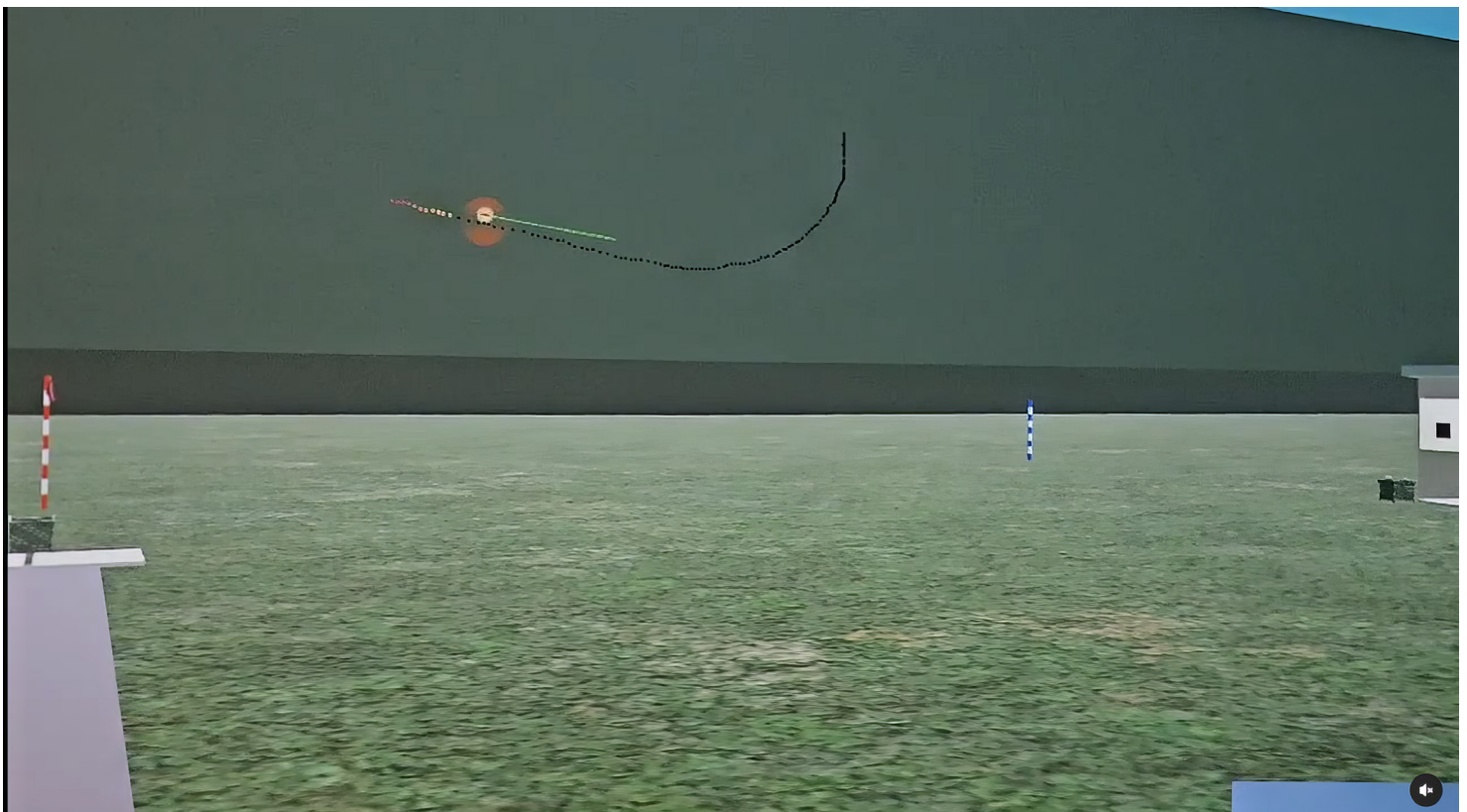


Tracking (Optional)

A barrel tracking module that detects and measures barrel movement can be provided. This requires an additional laser unit to be inserted in the second barrel.

This module utilizes an additional camera mounted on the projector which incorporates a special filter.

This additional functionality allows your shots to be replayed with the precise movement of your barrel indicated by a laser trace on the screen. The immediate visual feedback you receive is the speed of barrel movement, and the relationship of your barrel with respect to the target.





Tripod mount (Optional)

The tripod assembly includes a high rack to which the projector and cameras are attached via a special mount. The tripod installation can be stowed away and still maintain calibration, giving the opportunity to set it back up and practice again within 1-2 minutes.

Laser projector (Optional)

TrueClays have the option to be delivered with a laser projector, it has the same specification as the regular lamp, but has longer lamp life (20.000+ hours) might be preferred in a public setting where the system should be on for a longer duration.

TrueHunt addon



For the serious hunter, TrueHunt is an add-on to the TrueClays system, that uses the same hardware to give you a unique hunting experience.

TrueHunt offers training on driven game – pheasants and partridge, plus duck and rabbit shooting (ferrete hunting), dove, crow, woodcock, boar, deer, and running moose and boar targets.

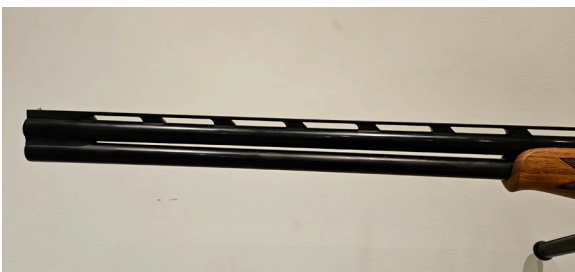


Simulator guns

TrueClays Simulator guns are professionally made replica guns with the electronics modules built in. They have a free-floating barrel design, ideal for a sporting gun and are perfectly balanced so they can be used for any discipline.

The replica gun also has a working safety mechanism, a great training aid for new shooters to learn the importance of gun safety.

Note: The gun we are currently selling has adjustable comb, do note that pictures below does not show that.



Software updates

You will receive complete system updates online.

The first year the updates will be free, for the second year and onwards, there is a subscription to continue getting updates.

When you receive the updates, you will receive any add-ons that we might have released, meaning you will get new backgrounds and new sporting courses automatically.

System Configuration

For TrueClays Basic, Pro & Premium you will need:

A room with no direct sunlight, and the ability to reduce lighting to minimal or none at all.

Projection wall WIDTH: 3.40-5.00m, (11.2-16ft)

Projection wall HEIGHT: 2.40-3.00m, (8-10ft)

Depth of room: 3.00m, (10ft)

A fairly smooth, white or light grey projection wall, best painted with dull (non-reflective) roof paint.

For TrueClays Compact you will need:

A room with no direct sunlight, and the ability to reduce lighting to minimal or none at all.

Projection wall WIDTH: 2.60-2.80m, (8.5-9.2ft)

Projection wall HEIGHT: 2.40-2.60m, (8-8.55ft) or less for shorter shooters.

Depth of room: 2.50m, (8.2ft).

No additional projector mount is needed for TrueClays Compact

The key concept for TrueClays is that the shooter stands very close to the wall or screen. This is

to create an immersive environment where the shooter is able to fully transition from the shooting range into the TrueClays simulation.

The close proximity to the screen creates the correct field of view and perspectives for all aspects of the shooting range.

More videos online

[You can find videos of the system here: trueclays.com/videos](https://trueclays.com/videos)



Scan me!



Get in touch

Thank you for your interest in TrueClays. If you wish to request a quotation please contact us at sales@trueclays.com. Additional information can be provided on request.



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Please follow us at Instagram [@trueclays](https://www.instagram.com/trueclays) and please follow Lisette at [@clayshooter_lisette](https://www.instagram.com/clayshooter_lisette) where you can see more videos of TrueClays.