

Configuration Tool – User Manual

This user manual guides the user through the complete process of configuring setups and cameras for a sports field. At the end of the process, you will get the result of the selected setup as a JSON file.

Arrows with numbers represent the logical order of steps of a segment. If the numbers are red, these steps are mandatory to complete the configuration. When arrows do not have a number there is no necessary order to configure that segment or the action is optional. Lines without arrows provide additional information about the result of an action.

Choosing a setup

1. Click the input field and type a setup name
 2. Click the “Add” button or press enter to add the setup
 3. Click the setup button to start configuration for that setup
- Click the “Rename” button, type a new name in the appeared input field and press enter to rename that setup

TrackBox	Home
<p><u>Home</u></p> <p>Camera</p> <p>Overview</p> <p>Config</p>	<p>Input a setup name and add it to the list. Choose a setup to configure.</p> <div><input type="text" value="waalwijk"/> <input type="button" value="Add"/></div> <div><div>1</div><div>2</div></div>
<p><u>Home</u></p> <p>Camera</p> <p>Overview</p> <p>Config</p>	<p>Input a setup name and add it to the list. Choose a setup to configure.</p> <div><input type="text"/></div> <div><div><div>waalwijk</div><div><input type="button" value="Rename"/></div></div><div>3</div></div>

TrackBox

Home

Home

Camera

Overview

Config

Input a setup name and add it to the list.
Choose a setup to configure.

Add

waalwijk

waalwijk_2

Enter

TrackBox

Home

Home

Camera

Overview

Config

Input a setup name and add it to the list.
Choose a setup to configure.

Add

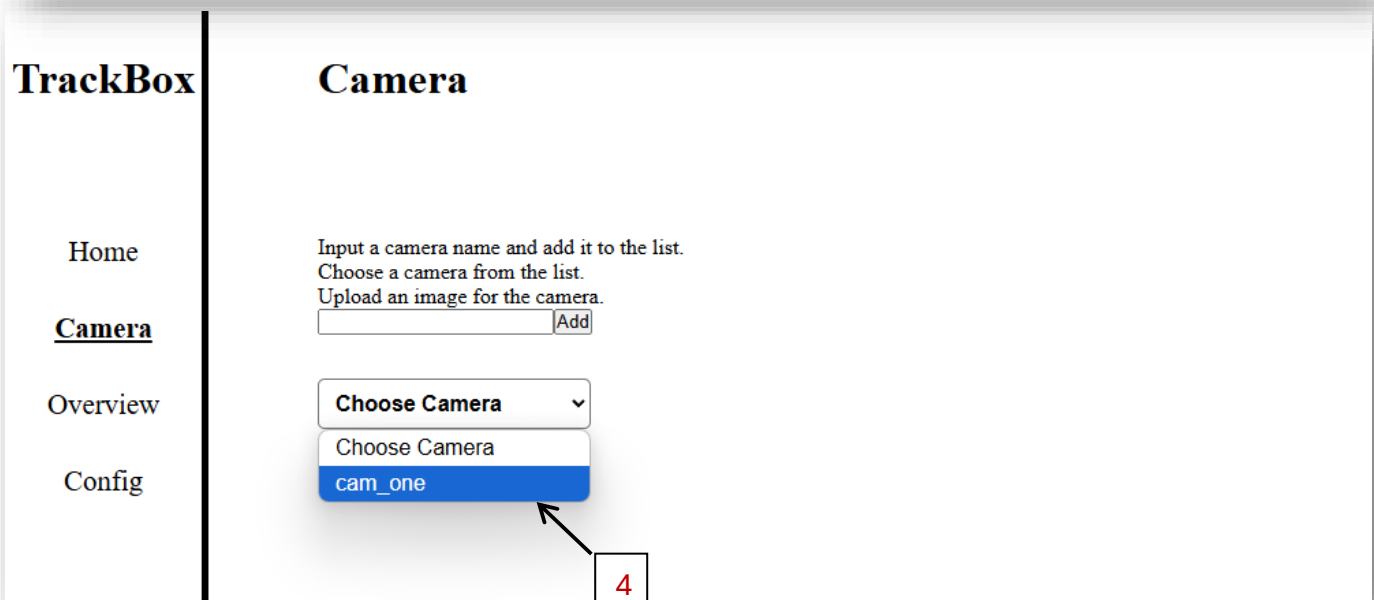
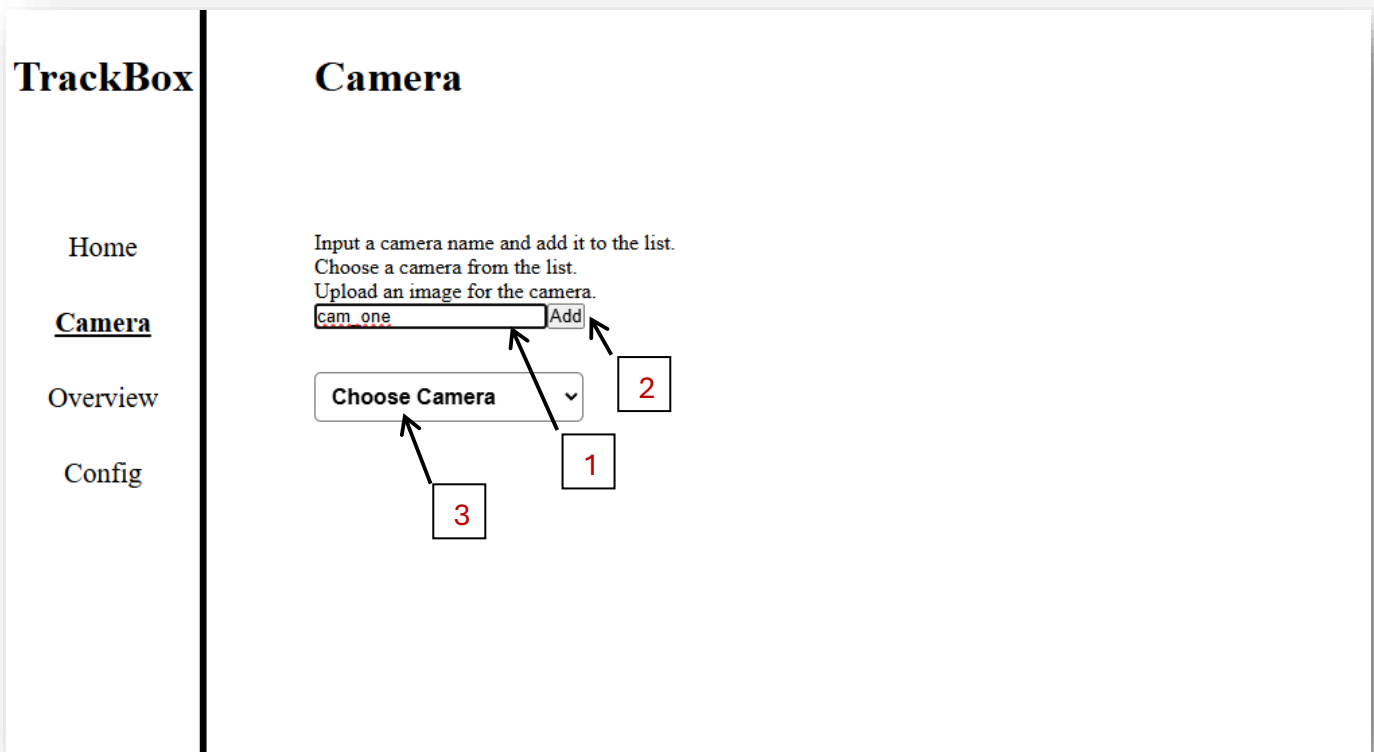
waalwijk_2

Rename

Renamed setup

Choosing a camera

1. Click the input field and type a camera name
2. Click the “Add” button or press enter to add the camera
3. Click the dropdown menu to open the list of cameras
4. Click a camera to start configuring it



- TrackBox

Home

Camera

Overview

Config

Camera

Input a camera name and add it to the list.
Choose a camera from the list.
Upload an image for the camera.

cam_one

▼

Delete

Rename

Choose file

5

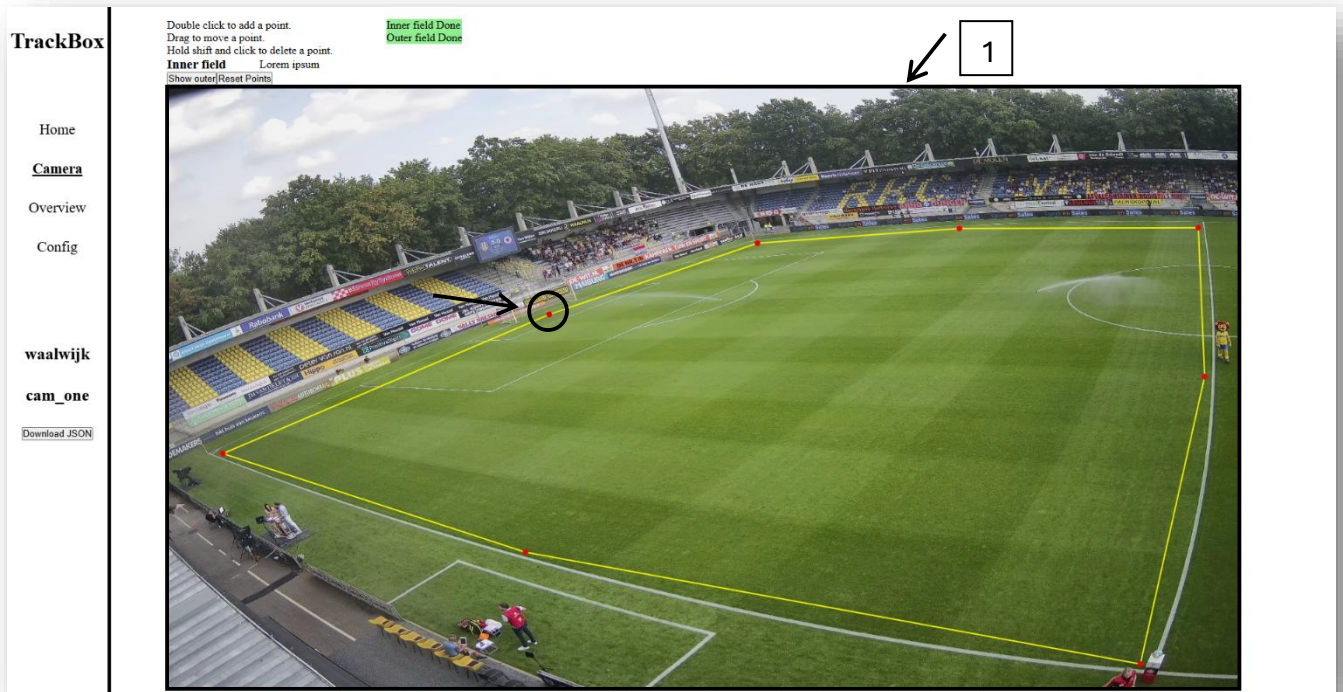
The screenshot displays the 'Configuration - Camera' window. On the left is a sidebar with a 'TrackBox' header and four menu items: 'Home', 'Camera' (which is underlined and bolded), 'Overview', and 'Config'. The main area of the window is titled 'Configuration - Camera' and contains a list of camera settings, each with a label and a corresponding input field:

- Resolution Width:
- Resolution Height:
- Position:
- Cropping Type:
- Time Correction:
- Path:

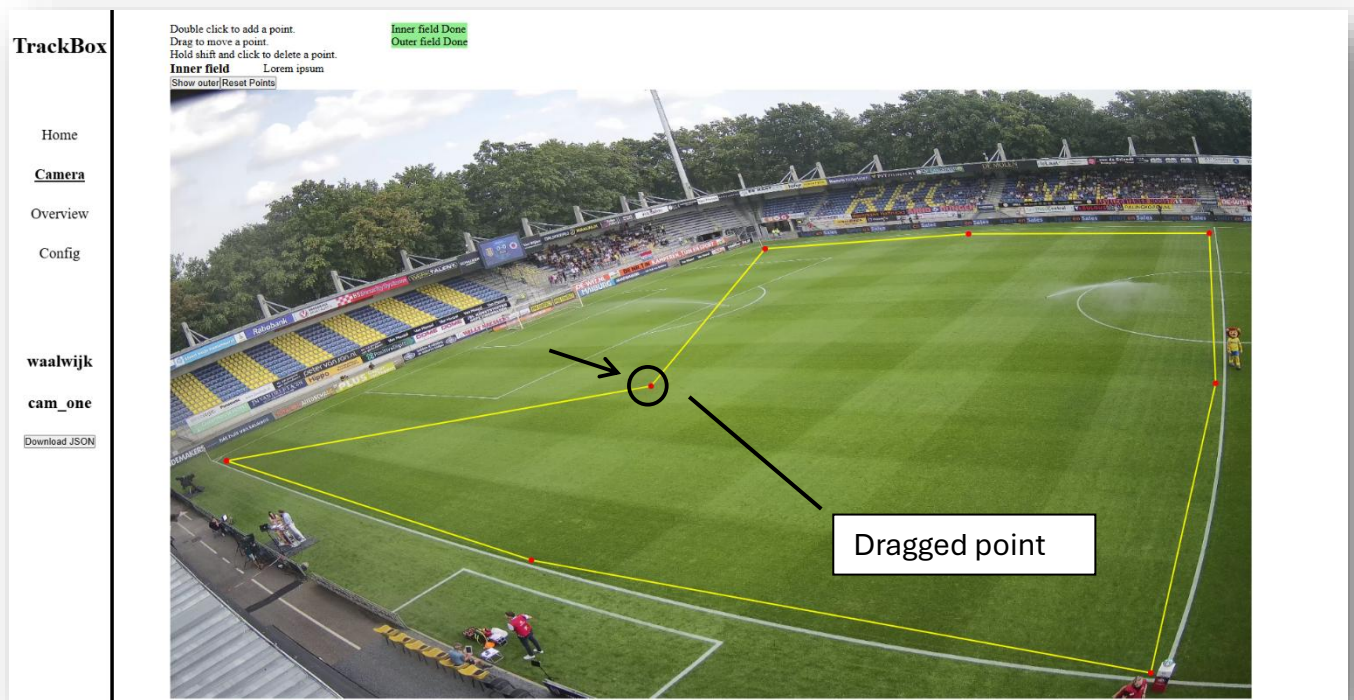
To the right of these input fields is a vertical list of six 'Lorem ipsum' placeholder text blocks. A black arrow points from the top right of the configuration panel towards the first 'Lorem ipsum' block.

Pitch Marking

1. Double click on the image to add a point to the mouse position
- Click and hold to drag a point for repositioning



- Hold shift and click a point to delete it



TrackBox

Home

Camera

Overview

Config

waalwijk

cam_one

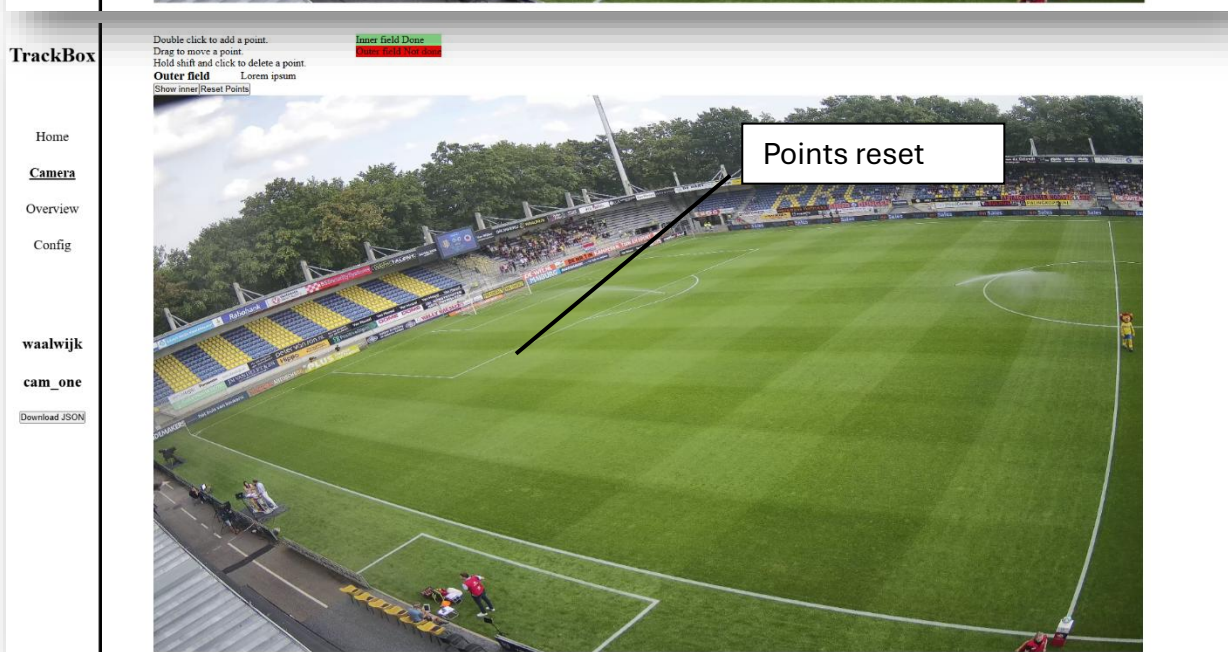
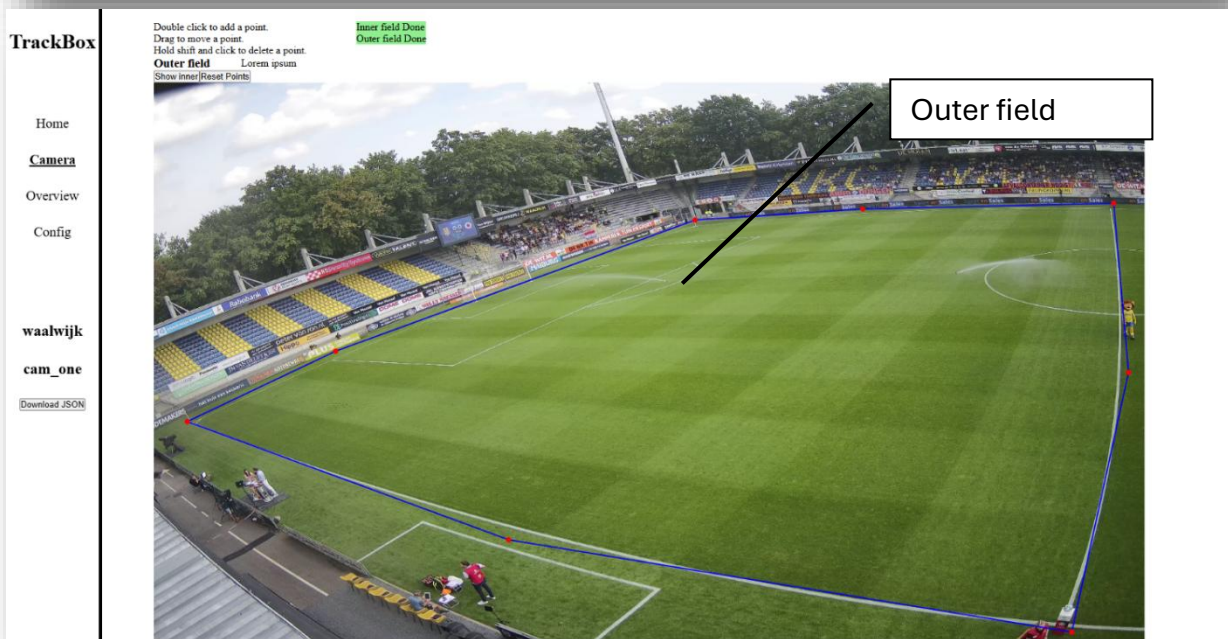
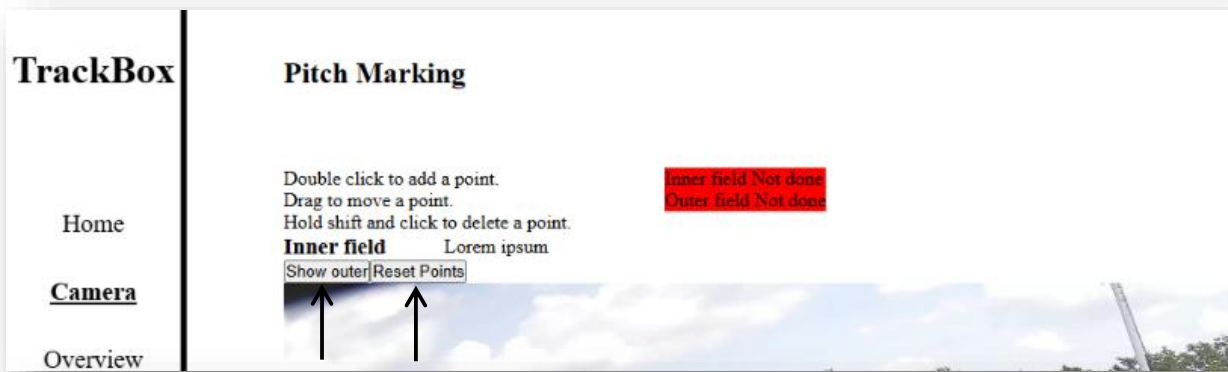
[Download JSON](#)

Double click to add a point.
Drag to move a point.
Hold shift and click to delete a point.
Inner field Lorem ipsum
[Show outer](#) [Reset Points](#)

Inner field Done
Outer field Done

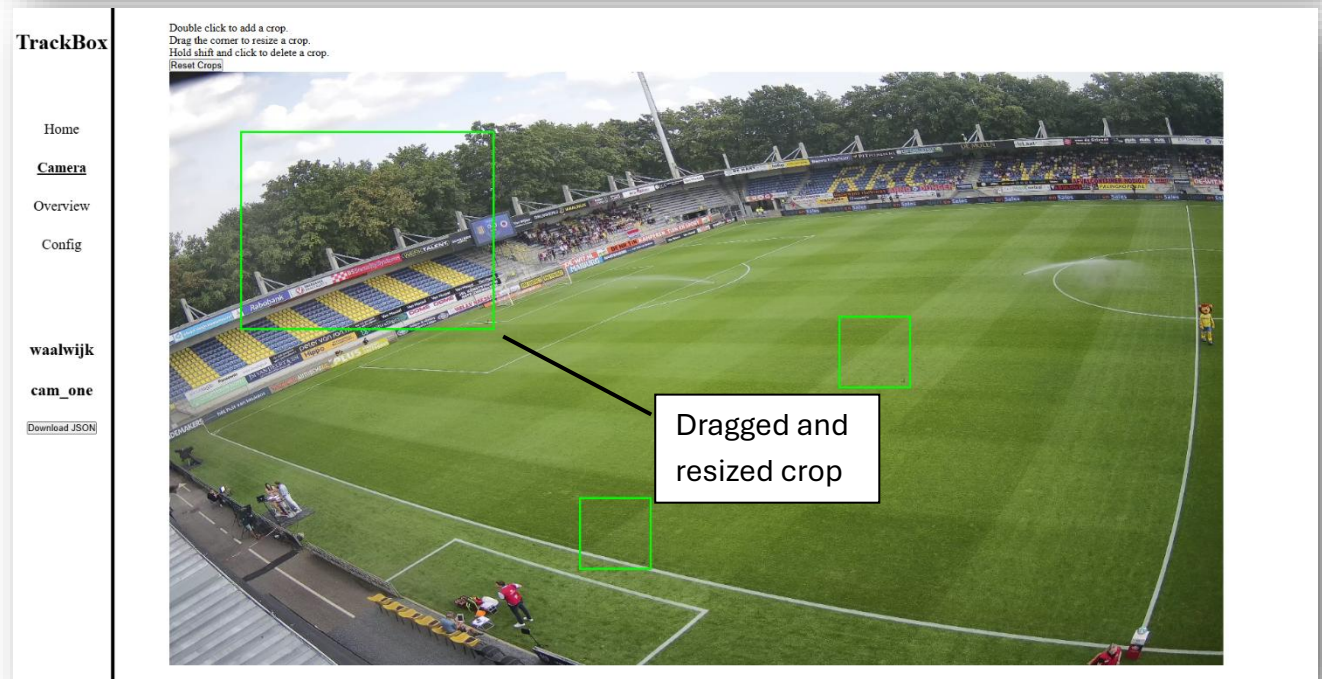


- Click the “Show outer” button to show the outer field (and vice versa)
- Click the “Reset Points” button to delete all points from a field

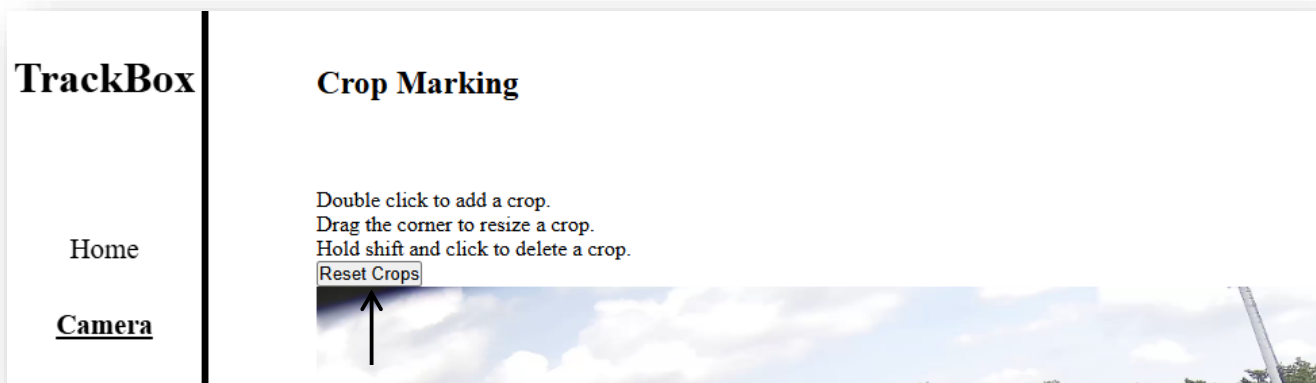


Crop marking

1. Double click on the image to add a point to the mouse position
 - Click and hold to drag a crop for repositioning
 - Click and hold to corner of a crop to resize it



- Click the “Reset Crops” button to delete all crops



Homography

- Click and hold to drag the homography points over the image

4



4



1
0 0

2
0 0

3
0 0

4
0 0

1
0 0

2
0 0

3
0 0

4
0 0

- Type in the coordinate number boxes for more precise adjustments



1
468 127

2
829 112

3
788 494

4
29 310



1
26 23

2
428 24

3
427 486

4
25 486

Undistortion

- Drag the sliders to adjust undistortion parameters
- Type in the number input fields to adjust undistortion parameters
- Click increments in the number input fields to adjust undistortion parameters

TrackBox

Home

Camera

Overview

Config

waalwijk

cam_one

Download JSON

Reset Params

x: Lorem ipsum

55

Min: 0

Max: 100

y: Lorem ipsum

49

Min: 0

Max: 100

w: Lorem ipsum

50

Min: 0

Max: 100

h: Lorem ipsum

70

Min: 0

Max: 100

k1: Lorem ipsum

-0,18

Min: -1

Max: 1

k2: Lorem ipsum

0,03

Min: -1

Max: 1

p1: Lorem ipsum

0

Min: -1

Max: 1

p2: Lorem ipsum

0

Min: -1

Max: 1

k3: Lorem ipsum

0

Min: -1

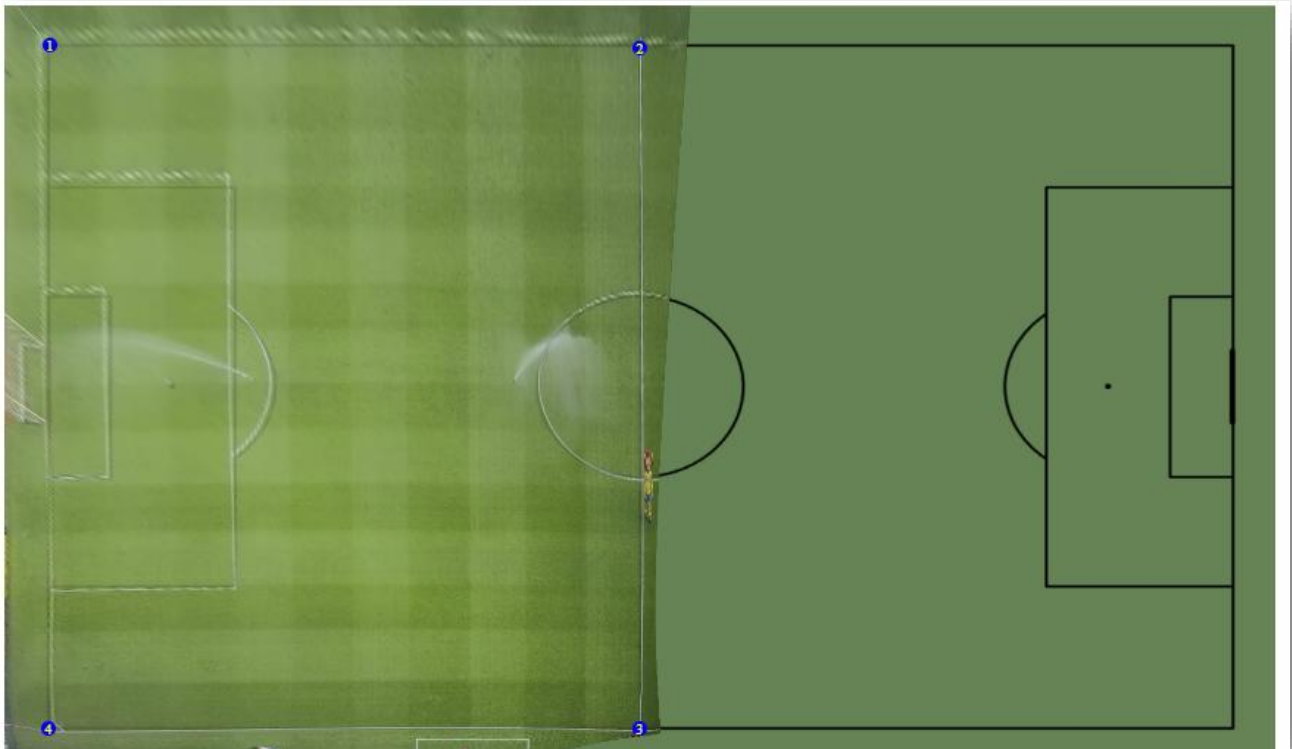
Max: 1

zoom: Lorem ipsum

1

Min: -10

Max: 10



- Type in the max/min number input fields to adjust the range of the undistortion parameters
- Click the reset params button to set all undistortion parameters to default

TrackBox

- Home
- Camera**
- Overview
- Config

Reset Params

Params reset

x: Lorem ipsum 50

Min: -100
Max: 200

y: Lorem ipsum 50

Min: 0
Max: 100

w: Lorem ipsum 50

Min: 0
Max: 100

h: Lorem ipsum 50

Min: 0
Max: 100

k1: Lorem ipsum 0

Min: -1
Max: 1

Min range changed

Manual setup settings

- Click an input field and type a value for the label or check the box

TrackBox

Home

Camera

Overview

Config

waalwijk

cam_one

Download JSON

Configuration - General

Setup Configuration

Device Type:

Lorem ipsum

Timestamp Start:

2025-06-01T00:57:13.07654

Lorem ipsum

Timestamp End:

2025-06-01T00:57:13.07655

Lorem ipsum

Extract Data Path:

Lorem ipsum

Stop Team After:

0

Lorem ipsum

Tracker Type:

Lorem ipsum

Output Fps:

0

Lorem ipsum

Output Path:

Lorem ipsum

Debug Visualize:

☐ Lorem ipsum

Adjusting a configurable

1. Click the “Add” button to add a configurable (team detector/detector/field)
 2. Click the configurable to show its input fields
 3. Click an input field and type a value for the label or check the box
- Click the “Delete” button to delete a configurable
 - Click the “Assign” button to assign a configurable to the current setup

The image consists of three vertically stacked screenshots of a web application interface, illustrating the steps to adjust a configurable. Each screenshot has a left sidebar with a 'cam_one' header and a 'Download JSON' button.

Top Screenshot: Shows the 'Team Detector Configuration' section. An arrow points to the 'Add' button, which is labeled with a box containing the number '1'. Below it are 'Detector Configuration' and 'Field Configuration' sections, each with an 'Add' button.

Middle Screenshot: Shows the 'Team Detector Configuration' section. An arrow points to the 'Delete' button of a configuration item, which is labeled with a box containing the number '2'. The configuration item is a JSON object: `{ "type": "", "model_name": "", "use_hsl": false, "old_dual_head": false }`. Below it are 'Detector Configuration' and 'Field Configuration' sections, each with an 'Add' button.

Bottom Screenshot: Shows the 'Team Detector Configuration' section. An arrow points to the 'Assign' button, which is labeled with a box containing the number '3'. The configuration item is a JSON object: `{ "type": "", "model_name": "", "use_hsl": false, "old_dual_head": false }`. Below it are 'Detector Configuration' and 'Field Configuration' sections, each with an 'Add' button. The 'Assign' button is highlighted with a box.

Downloading configuration

- Click the “Download JSON” button to download all the configured values of the selected setup as a JSON file

TrackBox

Home

Camera

Overview

Config

waalwijk

cam_one

Download JSON

Configuration - General

Setup Configuration

Device Type:

Lorem ipsum

Timestamp Start:

2025-06-01T00:57:13.07654

Lorem ipsum

Timestamp End:

2025-06-01T00:57:13.07655

Lorem ipsum

Extract Data Path:

Lorem ipsum

Stop Team After:

0

Lorem ipsum

Tracker Type:

Lorem ipsum

Output Fps:

0

Lorem ipsum