Calibration

Preparation

Go to `Menu > Layout > Calibrate` to see all necessary calibration tools.

Make sure no reflective objects are visible to the system. Remove all all reflective objects from the space or cover them. Many shoes have actually reflective surfaces, so make sure to either tape them or take them off for the following processes.

Switch between the video modes to identify reflections by `selecting all cameras in the Device` pane and then pressing the `crosshair symbol` on one camera.

Ideally it should look like this:

The only big refelections ara actually the cameras.

Camera Settings

Switch the cameras back the objective (tracking) mode mode by `selecting all cameras in the Device` pane and then pressing the `crosshair symbol` on one camera.

check the Tracking Parameters

Tested settings are:

- FPS: 120
- EXP: 120
- THR: 210
- Gain: Full

adjust this values until the reflections from the floor are acceptable.

LED

Set LED

Exposure

Longer (high) exposure values makes small markers more visible, but high values can introduce false markers. It is best to minimize the exposure setting as much as the markers are clearly visible in the captured images and that there are as less false markes as possible.

Threshold

Keep the threshold as high as possible to remove false reflection but keeping markers still visible.

Calibration with Passive Wand

Once all the reflections are removed, clear the previously set masks by pressing `Clear Mask in the Calibration pane:`

Calibration with Active Wand

then set the masks again (press "Mask visible"). it is important that nobody is inside the space at this moment.

once the masks are set, the space is ready for wanding. make sure you are using the correct wand (500mm)

keep on wanding until each camera has at least 1500 Samples:

press calcualate:

once the result looks like this:

confirm to apply:

and as the last step set the ground plane. The ground plane L has a defect waterbalance, so please do not adjust the leveling screws, it should be ok the way it is now.

Vertical Offset is the distance from the ground to the center of the reflectors.

the ground plane Z-Axis should point towards the computers. there are three markers on the trackingspace that indicate the position. If you plan to use the tracking system with projections, take special care to position the groundplane as precise as possible over the markers.

save the callibration file inside your session folder.