# **Calibration Integration Setup Guide**

### 1. Download Template Resources

- Use the following link to download all necessary resources: https://github.com/PauAmetller/InteractiveSystemsUpdatedTemplate
- Copy all scripts and plugins from the template and add them to your Unity project.

# 2. Add the Tracking Object

- Locate the Tracking object in the template and turn it into a prefab.
- Add this prefab to your project.
- If your project already has a tracking calibration setup, **remove it** to avoid conflicts.

# 3. Replace the Camera Script

- Replace your current camera management script with the DoublescreenCameramanager script from the template.
- Set the **Overlap Save Path** to point to the location of your tracking project's overlap file.
- Alternatively, you can manually enter the overlap value and uncheck the "Use Overlap File" checkbox.

**Note:** This script does not support modifying camera movement, focus, blend parameters, or plane (floor) settings during execution/gameplay. If needed, customize it to support these dynamic features.

### 4. Add the Blending Object

- In the template, the blending object is named "Blend" and is located under the parent object "Planes".
- Add the **Blend** object to your project, along with its related assets:
  - 1. HDRPDefaultResources
  - 2. Materials > Blending
  - 3. Textures > Blending texture

**Note:** For Unity versions 2021 and later, HDRPDefaultResources is incompatible. In that case, you'll need to create a custom Blend object that mimics the one in the template.

### 5. Set Up the Floor Plane

- Locate the **floor plane** in your scene (this is the surface that will be projected).
- If your scene doesn't already have one, create a new plane and position it accordingly.
- Make the plane invisible if it's only used as a reference and not part of the actual scene.
- Assign a reference to this plane in the **DoublescreenCameramanager** script.

# 6. Configure the Tracking Manager

- The **TrackingManager** script is located inside the **Tracking Manager** object, which is a child of the **Tracking** object in the hierarchy.
- Open the **TrackingManager** script in the Inspector and configure it as follows:
  - Enable **Tracking** (only when running with SteamVR).
  - o Add references to all player objects in the **Players** list.
  - Set the correct **Number of Players** based on the number of trackers being used.
  - o Do the same for the **Number of Base Stations**.
  - Set the Calibration File Path to match the location of your tracking project's calibration file.
  - o Enable **Rotation** and **Y Axis** if your project requires them.

#### 7. Set the Virtual World Size

- Select your floor plane and note its X and Z scale values and that of its parents.
- In the **TrackingManager** script, set the **Virtual World Space** as:
  - o **X** → X world scale × 10
  - o Y → 1
  - $\circ$  **Z**  $\rightarrow$  Z world scale  $\times$  10
- Ensure these values take into account the **world scale**, including any parent object scaling.

# 8. Add the Player Movement Script

 For each player object in your scene, add the PlayerMovement script as a component.