Mirevi MotionHub User Documentation









Mirevi **MotionHub** (MMH) is a middleware for merging body tracking data from different systems into one coordinate space in real-time in order to combine and use their individual benefits.

MMH offers support for several body tracking systems and encompasses a game engine plug-in that connects the MMH with Unity by means of a standardized protocol. The plug-in allows for the usage of a single type of skeleton for any body tracking system and, therefore, facilitates the switch between different body tracking systems during app development significantly.

MotionHub is developed at the research lab MIREVI from the University of Applied Sciences Düsseldorf within the scope of the project HIVE.

Acknowledgements

The project HIVE is sponsored by the German Federal Ministry of Education and Research (BMBF) under the project number 16SV8182.

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1. Supported Systems

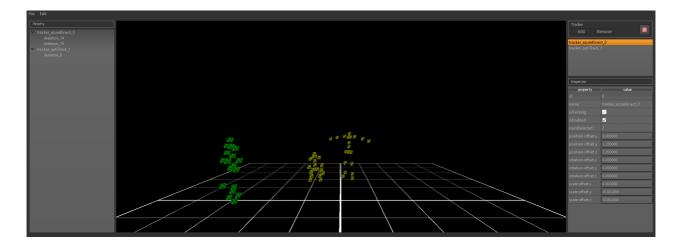
MMH currently supports the listed body tracking systems.

Supported Systems

Azure Kinect

OptiTrack

2. Overview and Navigation



MMH consists of four panels. From left to bottom right:

Name	Usage
tracker and skeleton hirarchy	inspect tracker and detected skeletons
render window	preview transformed tracking data
tracker list	add / remove and start / stop tracker
tracker property inspector	offset tracker

The render window camera can be rotated by holding the left mouse button down in the panel and pulling the mouse left or right.

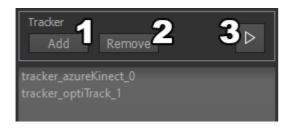
3. Adding and Removing Tracker



Add a new tracker by pressing the "Add"(1) button. A new popup will appear where you can select the type in a dropdown. Click "Create" to add the tracker to the list.

Remove a tracker by clicking on the name in the tracker list and click "Remove" (2). Trackers can only removed while the system is not tracking.

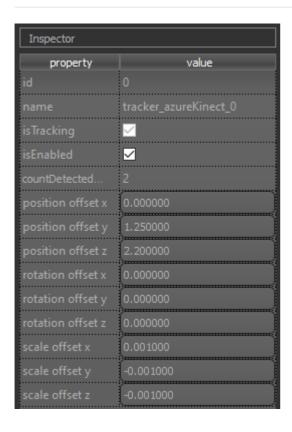
4. Start and Stop Tracking



Start all trackers by pressing the play icon(3). This will start all tracker and the preview in the render window.

Stop all tacker by clicking the same button (now displayed as a stop icon)(3). This will stop all tracker.

5. Offset Tracker



Offset a tracker by selecting one in the tracker list and enter values in the position, rotation and scale fields. This will offset the trackers origin. All values are in meters.