

OpenXR eye-tracking integration – Quick Guide

This is a demo code for XR eye tracking integration to your C++ projects.

Demo can be downloaded in this Discord message or via [this link](#)

This demo assumes that the user has prior experience with the OpenXR API and understands the fundamental process of integrating OpenXR into a project. It also requires familiarity with registering the VR manufacturer's OpenXR driver, as well as a solid understanding of C++ and VR technology.

Demo code can be copied, used and extended as you wish.

Eye Tracking integration steps using OpenXR:

1. **Enumerate available extensions** – Check if XR_EXT_eye_gaze_interaction is supported.
2. **Enable the extension** – Include it in the session creation process.

You may find code for steps 1 and 2 in `CheckAndEnableEyeTrackingExtension()` function in `xr_eye_demo.cpp`

3. **Create an eye Tracker** – Ensure that `XrEyeTrackerEXT` is properly created.

`InitOpenXREyeTracking()` show demo code for initialization of XR eye tracking and also calls the `CheckAndEnableEyeTrackingExtension` function

4. **Retrieve eye tracking data** – Query gaze pose correctly.

`GetEyeGaze()` function demonstrate the tracking data read out

Notes

To get data from Somnium VR1 eye tracker, you need to first calibrate and enable it using Somnium [VR1 tool app](#). You can use fast or advanced more precise calibration. Currently there is not a standard API using OpenXR.

In case of question please contact us in [our Discord](#)