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Revision History

Revision	Date	Description	
0.1	Oct 2023	Alpha release	
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1. Introduction

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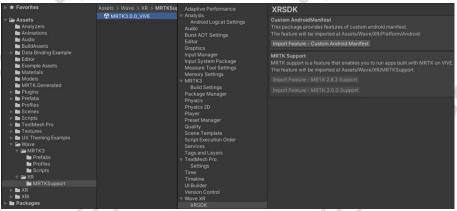
2. Development Environment

2.1. Download Packages

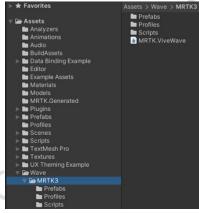
- 1. Download Source code (zip) for MRTK 3.0.0 GA from MRTK GitHub.
- 2. Unzip and open MRTK\UnityProjects\MRTKDevTemplate.
- 3. Import WAVE SDK into your project from menu Window > Package manager > Add package from tarball.



- 4. Import MRTK 3.0.0 Support feature from menu Edit > Project Settings > Wave XR > XRSDK.
- 5. Import MRTK3.0.0_VIVE package from Assets/Wave/XR/MRTKSupport/.

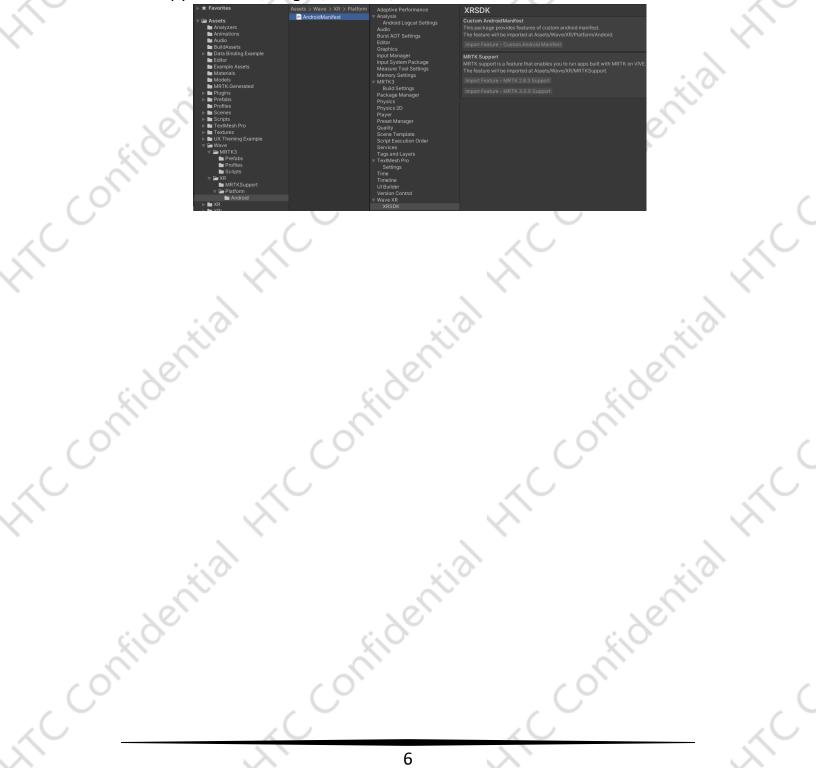


6. Check MRTK3 folder is added to Assets/ Wave/.





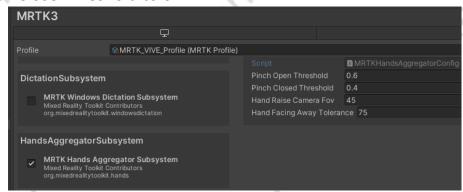
- 7. Import Custom AndroidManifest feature from menu Edit > Project Settings > Wave XR > XRSDK.
- 8. Check AndroidManifest.xml is added to Assets/Wave/XR/Platform/Android/ and copy to Assets/Plugins/Android/



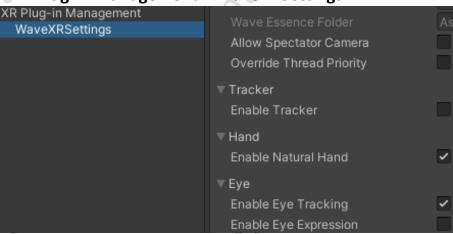


2.2. Project Settings

- Switch to Android platform.
- 2. Set MRTK3 Profile from menu **Edit > Project Settings > MRTK3** and select the profile from Assets/Wave/MRTK3/Profiles/.
- 3. Ensure MRTK Hands Aggregator Subsystem and Subsystem for Vive Wave Hands API are enabled in profile.
- 4. Click MRTK Hands Aggregator Subsystem and set Pinch Open Threshold to 0.6 and Pinch Close Threshold to 0.4.



Enable Natural Hand and Eye Tracking(optional) from menu Edit > Project
 Settings > XR Plug-in Management > WaveXRSettings.



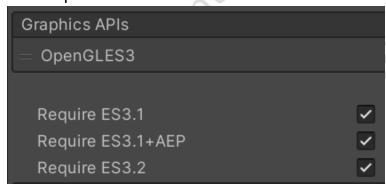
 Only enable WaveXR in XR Plug-in Management from Edit > Project Settings > XR Plug-in Management.



- 7. Check WaveXRPlayerSettingsConfigDialog from menu **Edit > Project Settings** > **Wave XR**.
 - 8. Click Accept All.



Check Graphics APIs from menu Edit > Project Settings > Player > Other
 Settings only select OpenGLES3.





2.3. Hand Interaction Example

You can build an example to verify your environment.

- 1. Open demo scene HandInteractionExamples.unity from Assets/Scenes/.
- 2. Disable MRTK XR Rig and Add VIVE Wave Rig from Assets/Wave/MRTK3/Prefabs/.
- 3. Build and Run from menu File > Build Settings.
- 4. In the example, you can test the functionality of the controller, hand tracking, and eye tracking and also interact with UGUI and objects using hand ray or controller ray.

Controller: Trigger Press(Select)
Hand Tracking: Pinch(Select)

Eye Tracking: If you enable eye tracking, the HMD gaze pointer would follow

your eye gaze.



3. Enable Passthrough

- 1. Import WAVE Native into your project from menu Window > Package manager > Add package from tarball.
- 2. Add script to call passthrough APIs, here listed the passthrough APIs: public static WVR_Result WVR_ShowPassthroughUnderlay(bool show)
- 3. Ensure the clear color of Opaque and Transparent in Camera Settings Manager from VIVE Wave Rig > Main Camera should be set to Color or Solid Color and the background color should be set to (0, 0, 0, 0).

