



VR Capture Plugin

Vive Component

Version 1.1

Created by RockVR

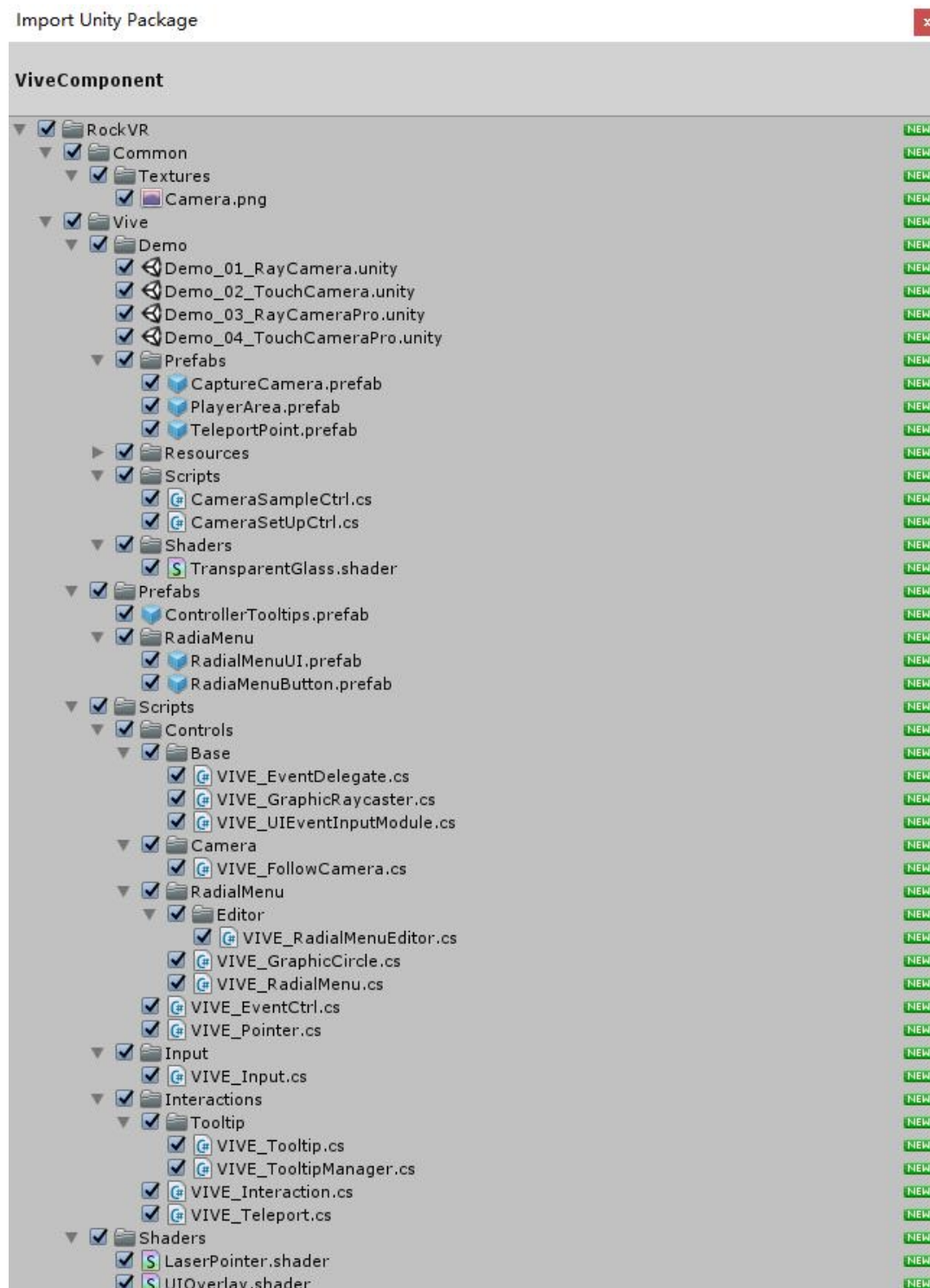
<http://www.rockvr.com/vrcapture>

Contact: dev@rockvr.com

1. Introduction and Overview

Vive Component is a unity package can help you to quickly understand how video capture work in VR scenes with Vive device.

When you import *Vive Component* into your Unity project, the following file will be added:



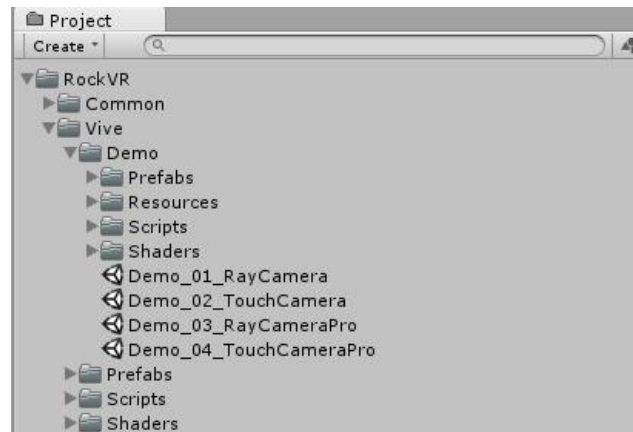
<i>RockVR/Vive/Demo</i>	Contains the scene file and all other assets for a fully functional demonstration of Video Capture with vive interaction.
<i>RockVR/Vive/Prefabs</i>	Contains useful prefabs can be dragged and dropped in to your scene.
<i>RockVR/Vive/Scripts</i>	Contains the core vive interaction logic scripts.
<i>RockVR/Vive/Shaders</i>	Shaders work with materials for vive interaction.

This guide covers integrating VR Capture to your own Unity project with HTC Vive device, and provides a detailed explanation on how the package works under the hood.

If you have any questions, feedback or having issues, please contact us directly at [*dev@rockvr.com*](mailto:dev@rockvr.com). We will respond to you as quickly as possible.

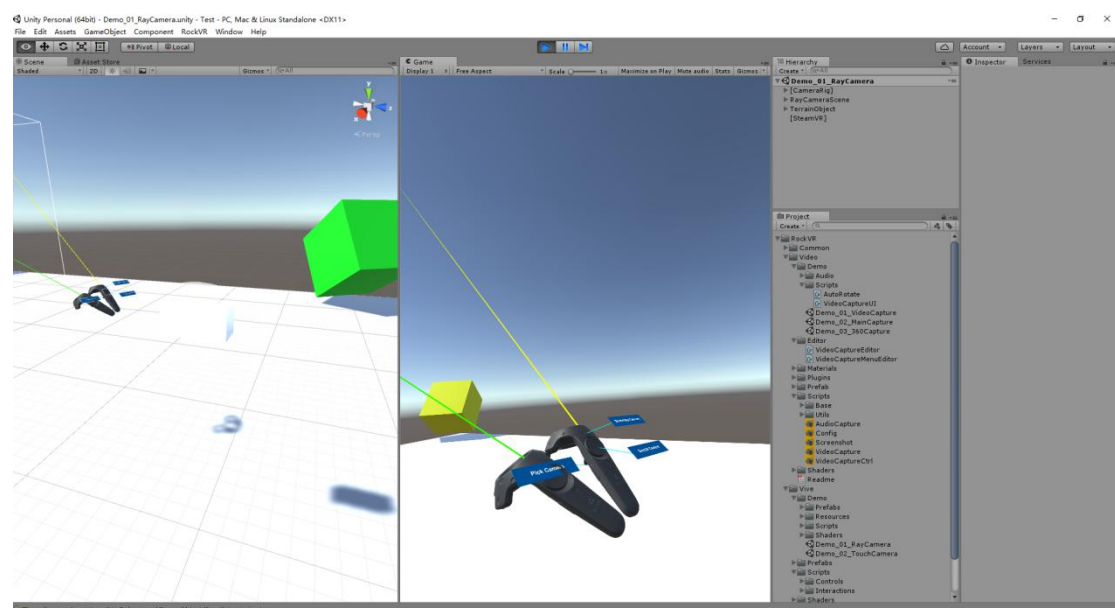
2. Demo Quick Start

VR Capture [ViveComponent](#) come with several demos to help you understanding functionality quickly. Start by importing [SteamVR](#) plugin then importing all [ViveComponent](#) package assets included demo scenes files.

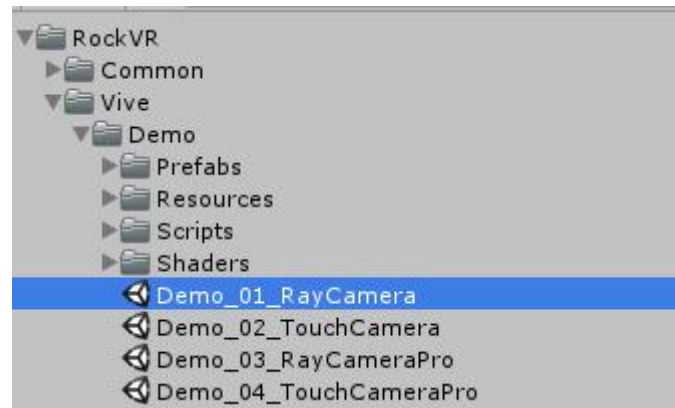


We provide several ways of interaction with recording camera, including touch, laser ray controller, etc.

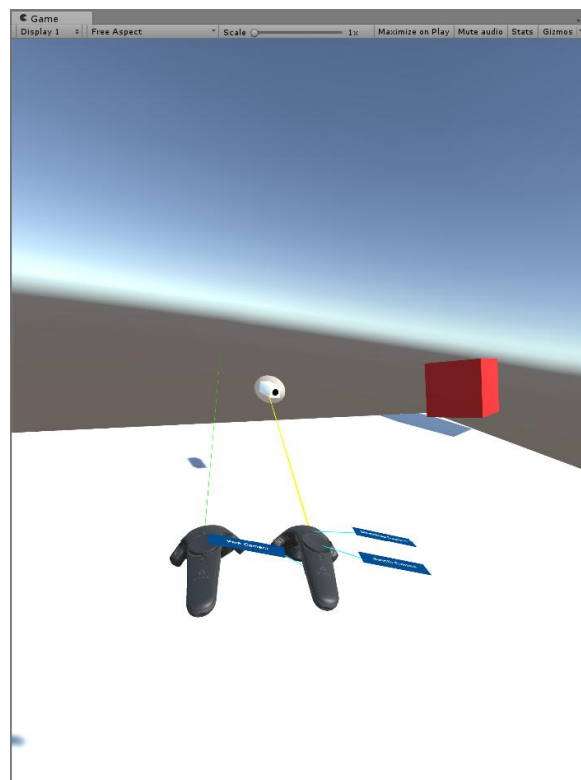
2.1 Laser Ray Controller Demo



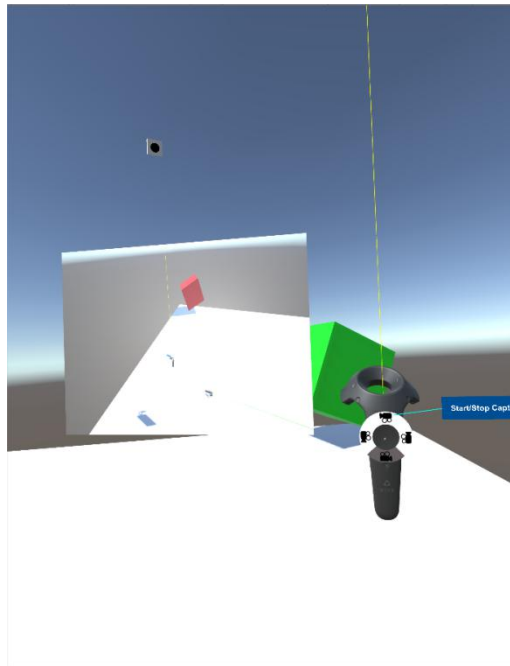
Step 1: Open the demo scene located in [/RockVR/Vive/Demo/Demo_01_RayCamera](#) :



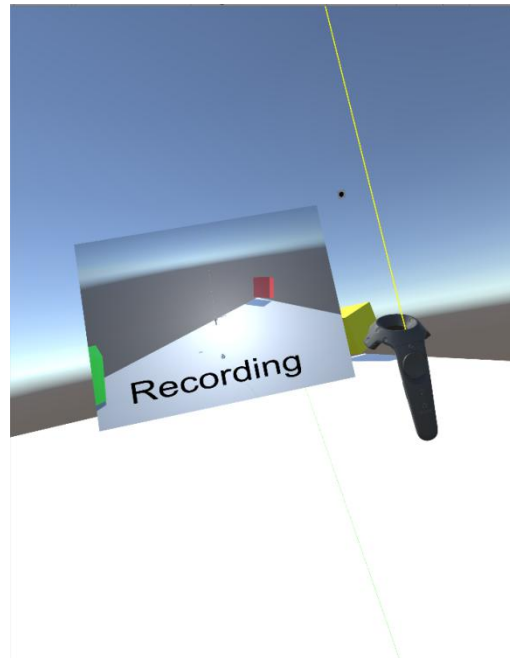
Step 2: Interact with recording camera. You need using laser ray to select the camera:



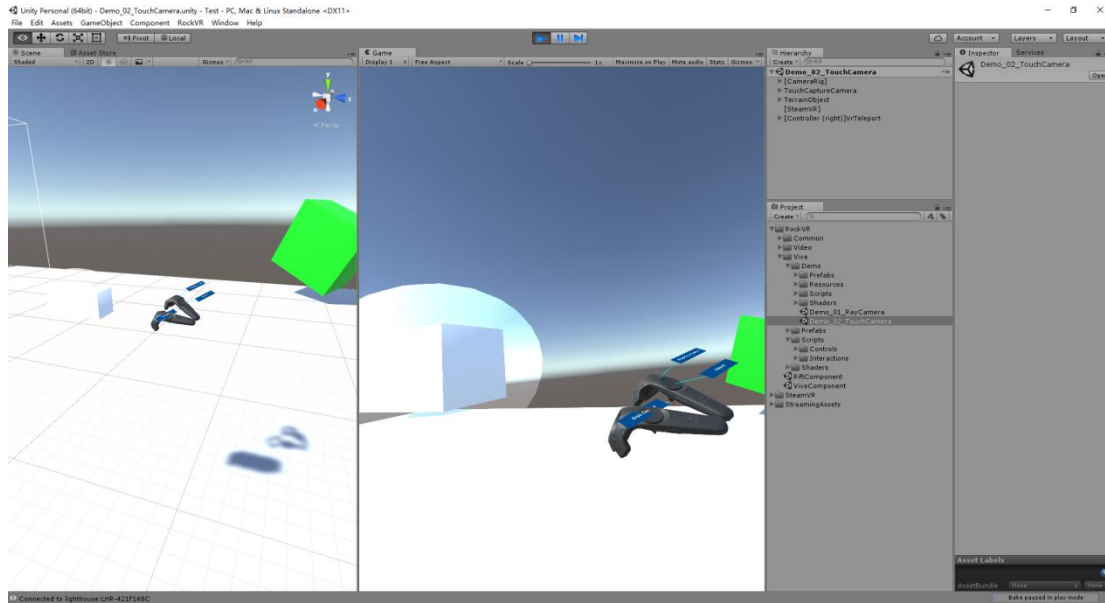
Step 3: Once you grab the camera, you can use radial menu to choose the shooting position with pre-set value:



Step 4: After your perfect camera position set, press trigger to start video recording session:



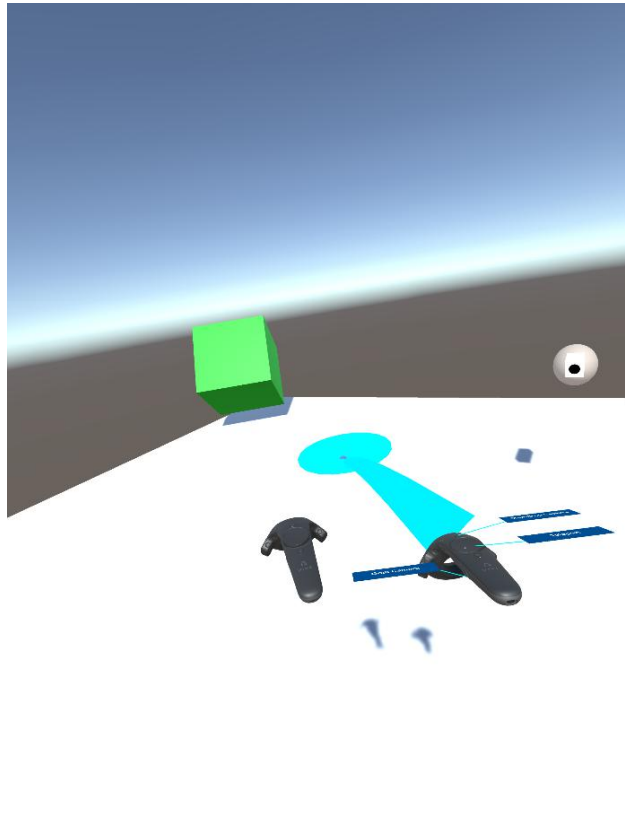
2.1 Touch Controller Demo



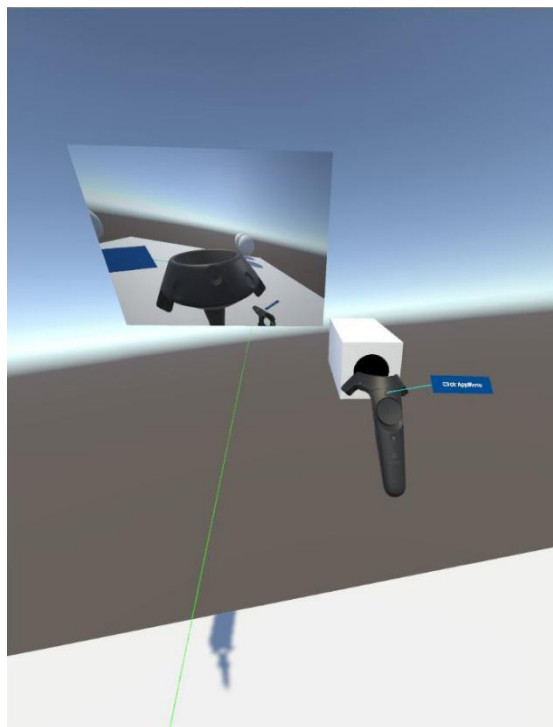
Step 1: Open the demo scene located in */RockVR/Vive/Demo/Demo_02_TouchCamera* :



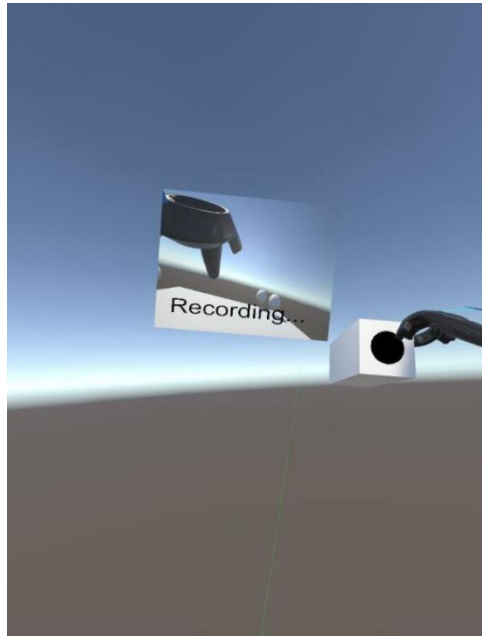
Step 2: Teleport to camera object by interaction with touchpad:



Step 3: Grab the camera and adjust to desired position and angle:



Step 4: Press the trigger to start video recording session, also you can grab camera and move it around while recording:

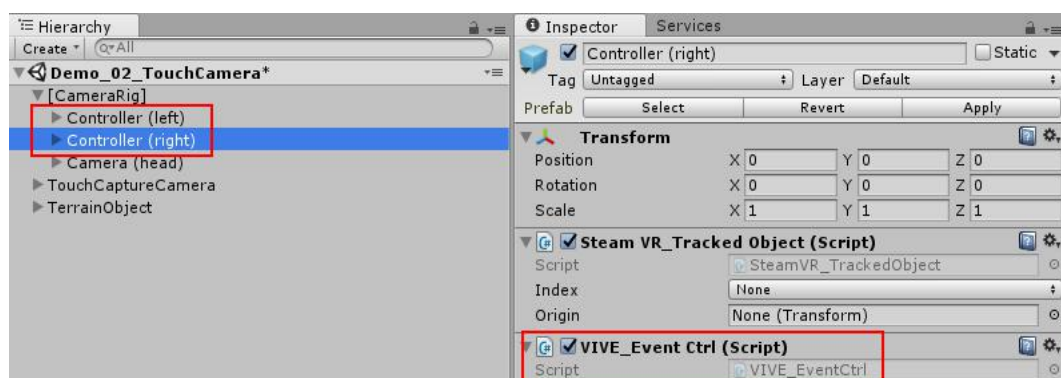


There are a few more demo you can try, [Demo_03_RayCameraPro](#) and [Demo_04_TouchCameraPro](#) both of them is recording by VideoCapturePro. The setup process should be same.

3. Integration Guide

[VIVE_Interation](#) module implemented the core function of VR interaction control.

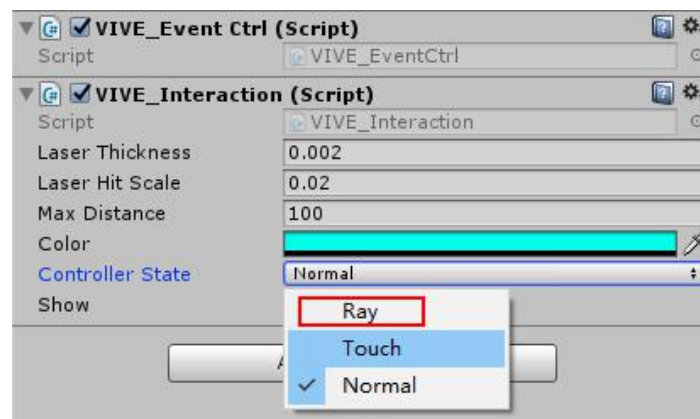
Step 1: Attach [VIVE_EventCtrl](#) script to the Steam VR devices controller you want to control.



Note: [VIVE_EventCtrl](#) is based on the [VIVE_EventDelegate](#) and [SteamVR](#) plugin, it is an event script to control the Vive handle devices.

Step 2: Adding different interactive features of the script to the Steam VR devices after the first step.

[VIVE_Interaction](#)- Set the interaction patterns, choose Ray or touch to interacting.



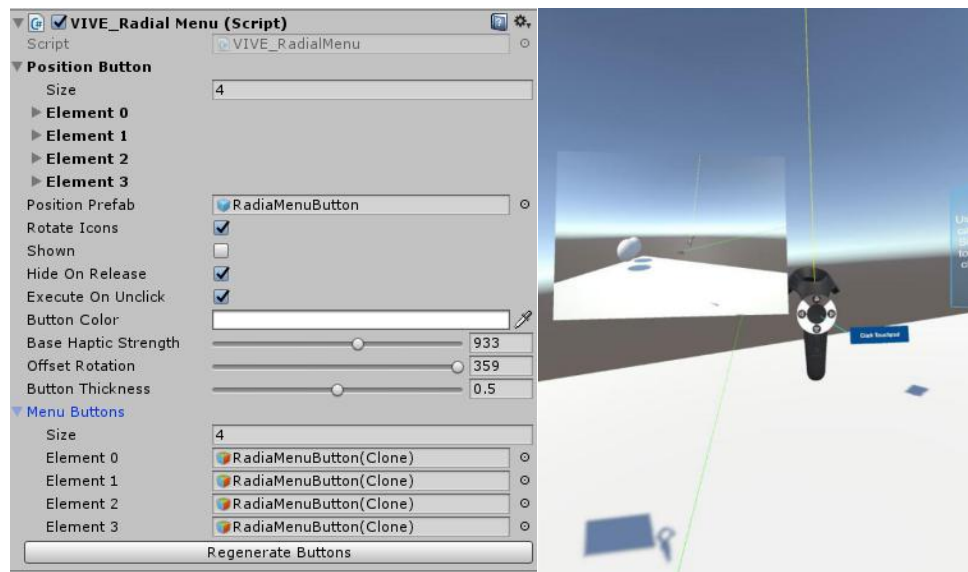
[VIVE_Pointer](#) - This script encapsulates system event to take response for user interaction.

[VIVE_UIEventInputModule](#) is designed to work as you would expect how a Vive controller input to work. Including button presses, dragging, and touch events.

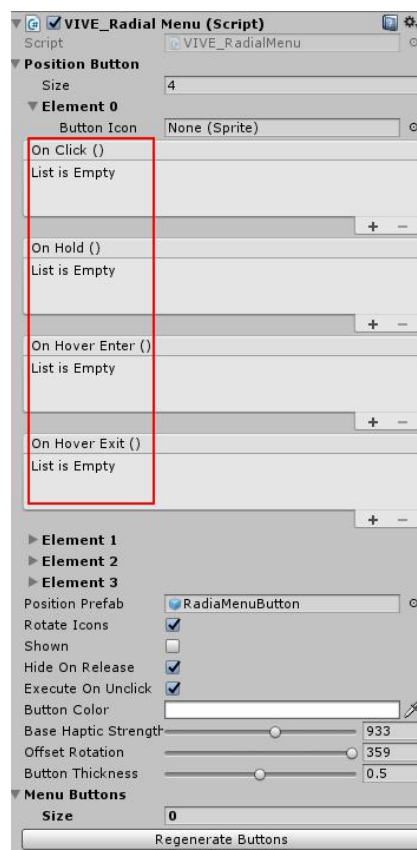
[VIVE_Teleport](#) - Implemented functionality of teleport in VR scene. Enable [SeachDownPoint](#) and [ConfirmDownPoint](#) function to implement teleport.

```
public void SeachDownPoint();  
public void ConfirmDownPoint();
```

VIVE_RadialMenu - Set radial menu attribute, and binding keys to listener events.



Add different events to objects corresponding to *RadialMenuButtons* state.



Step 3: Create a control management script to manage the handle events.

Create [VIVE_EventCtrl](#) object.

```
private VIVE_EventCtrl eventCtrl;
```

Register to create a delegated events.

```
void OnEnable()
{
    if (eventCtrl != null)
    {
        eventCtrl.eventDelegate.OnPressApplicationMenuDown += OnPressApplicationMenuDown;
        eventCtrl.eventDelegate.OnPressTrigger += OnPressTrigger;
        eventCtrl.eventDelegate.OnSwipeLeft += OnSwipeLeft;
        eventCtrl.eventDelegate.OnSwipeRight += OnSwipeRight;
        eventCtrl.eventDelegate.OnPressTriggerUp += OnPressTriggerUp;
        eventCtrl.eventDelegate.OnTouchPadTouch += OnTouchPadTouch;
        eventCtrl.eventDelegate.OnTouchPadTouchUp += OnTouchPadTouchUp;
        eventCtrl.eventDelegate.OnPressTouchpad += OnPressTouchpad;
        eventCtrl.eventDelegate.OnPressTouchpadDown += OnPressTouchpadDown;
        eventCtrl.eventDelegate.OnPressTouchpadUp += OnPressTouchpadUp;
    }
}
```

4. Feedback

If you have any feedback to [VR Capture](#) plugin, please email us directly, your suggestion will be very valuable to us. If you plan integrate a plugin into your game, please contact us by dev@rockvr.com and we will provide more help to let you share your awesome game more efficient.