



# Camera Controller 3D - Gaskellgames

## by Gaskellgames

'Tools / Camera' for Unity 3D game engine

# USER GUIDE

**Release 1.1.0**

*April 2023*

*Copyright (C) 2022 Gaskellgames - All Rights Reserved*



This manual, as well as the software described in it, is furnished under license and may be used or copied only in accordance with the terms of such license. The content of this manual is furnished for informational use only, is subject to change without notice and should not be construed as a commitment by its authors. The author assumes no responsibility or liability for any errors or inaccuracies that may appear in this manual.



## Table of Contents:

### Getting Started

---

Overview.....	4
Installation.....	4
Quick Start.....	4
Support & API documentation.....	4

### Asset Content

---

File structure.....	5
Example scene.....	6
How to use / setup guide.....	7
Camera Brain .....	8
Camera Rig .....	8
Camera Freelook Rig.....	8
Camera Trigger Zones & Multi Target Cam.....	9



## Getting Started:

### Overview

This user guide was created to provide a basic overview of the features functionality of the asset.

### Installation

Once you have downloaded the asset **Camera Controller 3D - Gaskellgames** from the Unity's Asset Store, go to: "Assets > Import Package > Custom Package...". In the Import Asset Window, find and select **Camera Controller 3D - Gaskellgames**. After the 'import package' window appears in Unity, verify that all items to import are selected and then click the import button in the bottom right of the window.

### Quick Start

The content of the asset will be found in the project window, under assets and within a header file with the name **Gaskellgames**.

All content that you as the end user are expected to interact with is under the sub folder with the name **Content**.

An up-to-date copy of this guide can be found under the sub folder with the name **Documentation**.

All back-end files and resources that are required to make the assts work can be found within the sub folder with the name **Resources**.

### Support & API documentation

Should you have any questions or require assistance, please join the official Gaskellgames Discord:

<https://discord.gg/nzRQ87GGbD>

In the event you are unable to find the information you seek on the forums or discord, you can contact Gaskellgames via the weblink:

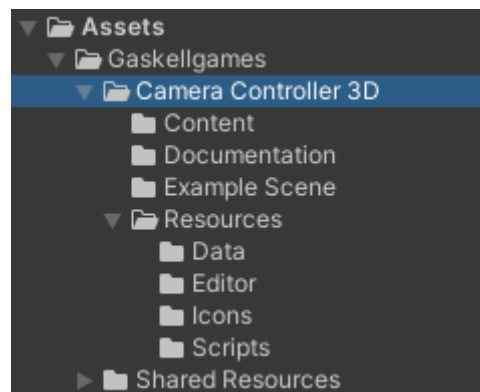
<https://www.gaskellgames.com/contact>



## Asset Content:

### File Structure

The files and content within the asset are laid out in the same way as all Gaskellgames assets. You will find the asset name under the header file of Gaskellgames, with all content that you as the end user are expected to interact with to be found under the sub folder with the name Content. The asset version's up-to-date copy of this guide can be found under the sub folder with the name Documentation, and all back-end files and resources that are required to make the assts work can be found within the sub folder with the name Resources.

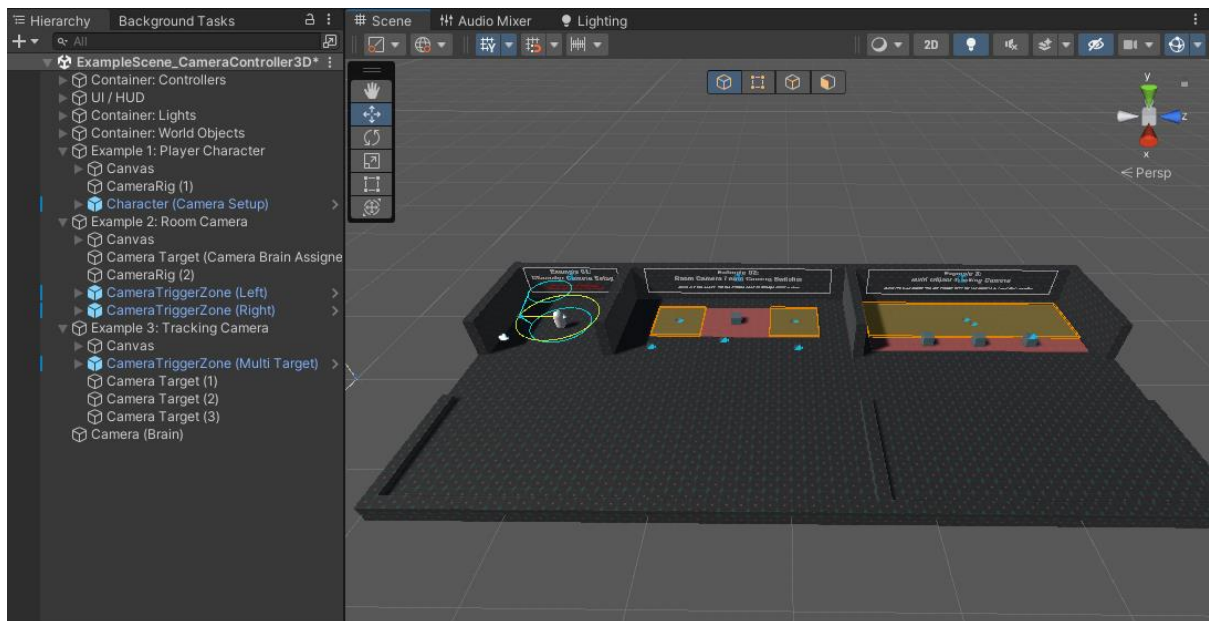


There is also an example scene with a working version of the asset should you need to view an example of the asset.



## Example scene

The example scene, found within the resources folder, can be viewed to see a working version of the asset. For the asset **Camera Controller 3D** it looks as follows:

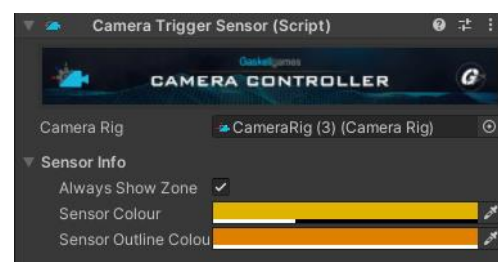
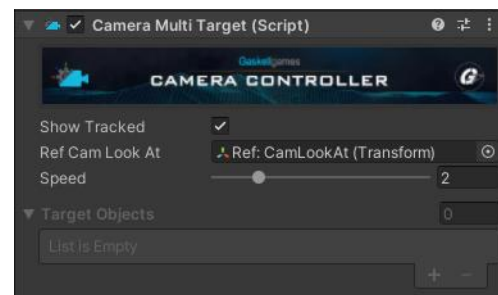
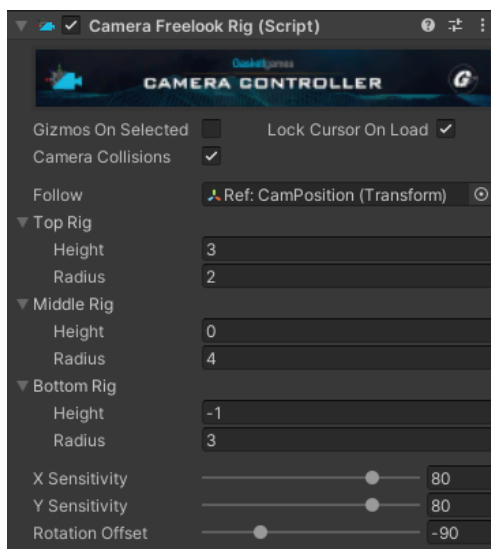
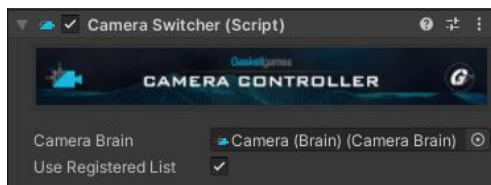
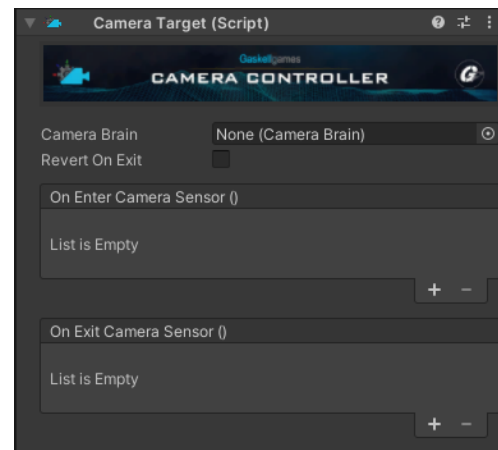
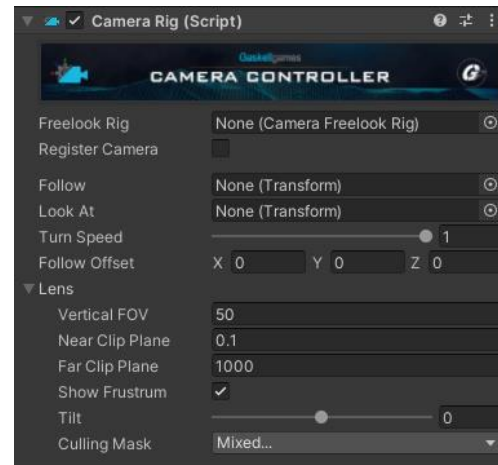


Within the scene, you will find a scene camera and directional light source, along with a working version of each camera controller.

*Note: The character is an example only, and does not have any movement controls, but freelook (third person) camera works*

## How to use / setup guide

The camera controller is split into modular components: The camera brain, the camera rig, and the supporting scripts:



## Camera Brain

The **Camera Brain** script should be added to the camera gameobject that you want the camera controller to control. To preview a camera view, you simply add the chosen 'CameraRig' into the 'Active Camera' inspector slot on the camera brain. This will also be the default camera view when the game is started.

## Camera Rig

The **Camera Rig** script allows you to define a virtual camera position for the 'Camera Brain'. This allows you to use update the main camera's settings and position to match a pre-defined setup. The 'Camera Rig' script can be configured to follow another gameobject, look at another gameobject or be controlled by a 'Freelook Rig'.

Camera Rigs are used in all camera types:

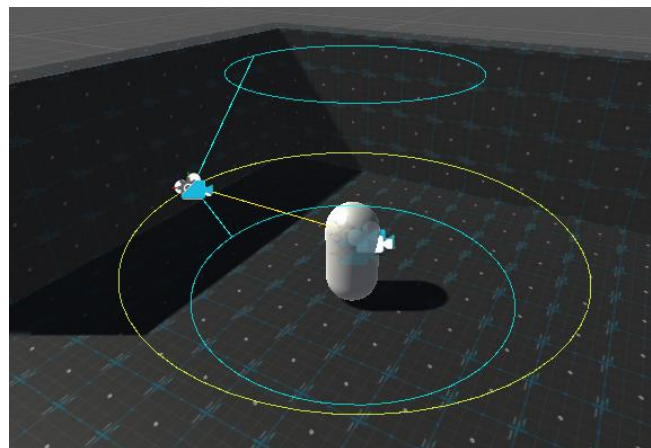
- First person,
- Third person: Follow,
- Third person: Freelook,
- Top-down,
- Room camera,
- Multi-Target Camera.

## Camera Freelook Rig

The **Camera Freelook Rig** script allows the user to define an orbit and position that a Camera Rig will follow. Freelook Rigs allow you to adjust the height and radius of the camera orbit for three locations: Top, Middle and Bottom. The freelook rig will then blend between these orbits to create a dynamic orbit that a third person camera can follow.

Camera Freelook Rigs are used for the following camera types:

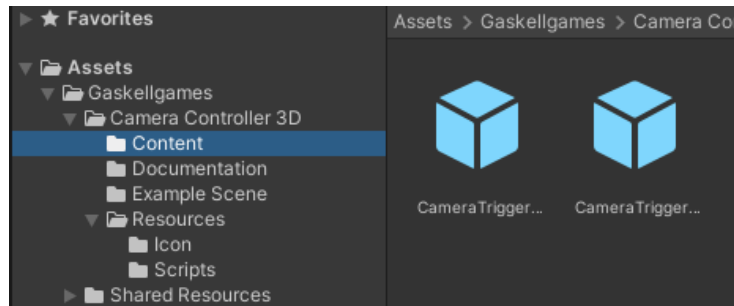
- Third person: Freelook,
- Top-down





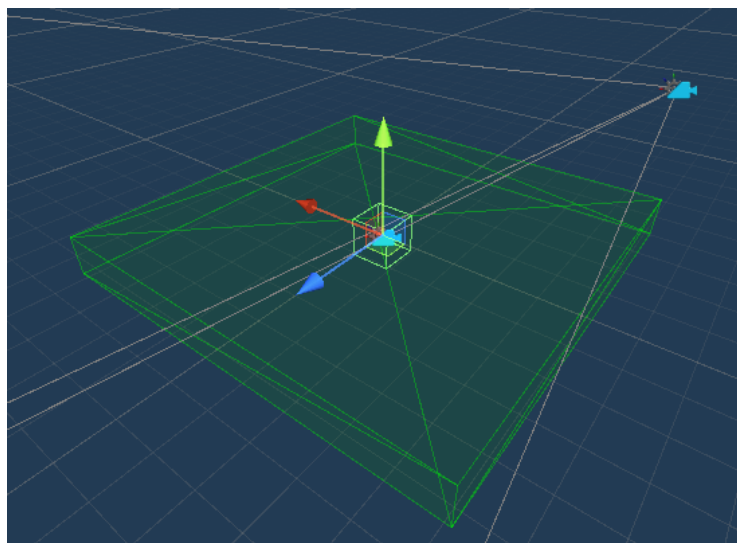
## Camera Trigger Zones & Multi Target Cam

Should you wish to have a specific camera angle (room camera), you will need to add a camera trigger zone. This can be dragged and dropped from the Content file of the asset:



You can adjust the settings for the trigger zone in the inspector panel for the **Camera Trigger Sensor** script. Settings include the sensor type (cube / cylinder), the scale, and the offset.

In order to change the view and camera settings, you will need to change the position of the **Ref: CamLookAt** game object and view the inspector for the **Camera Rig** gameobject.



To create a multi-target cam, you will need to add a **Camera Multi Target** script to the trigger zone gameobject and assign the **Ref: CamLookAt** game object in the inspector.

The target list is read only in the **Camera Multi Target** script and is auto assigned when a suitable game object is within the sensor trigger zone. A suitable object is a gameobject with a collider and a **Camera Target** script.

*Note: The Camera Trigger Sensor gameobject requires the tag 'CameraSensor'*



## Camera Switcher

You can use the **Camera Switcher** to quickly and easily switch between all registered **Camera Rigs**, or a custom list of **Camera Rigs** by pressing *C* on keyboard (*north* action on gamepad)

*Note: Input is using the new input system and Gaskellgames Action Map from Shared Resources.*