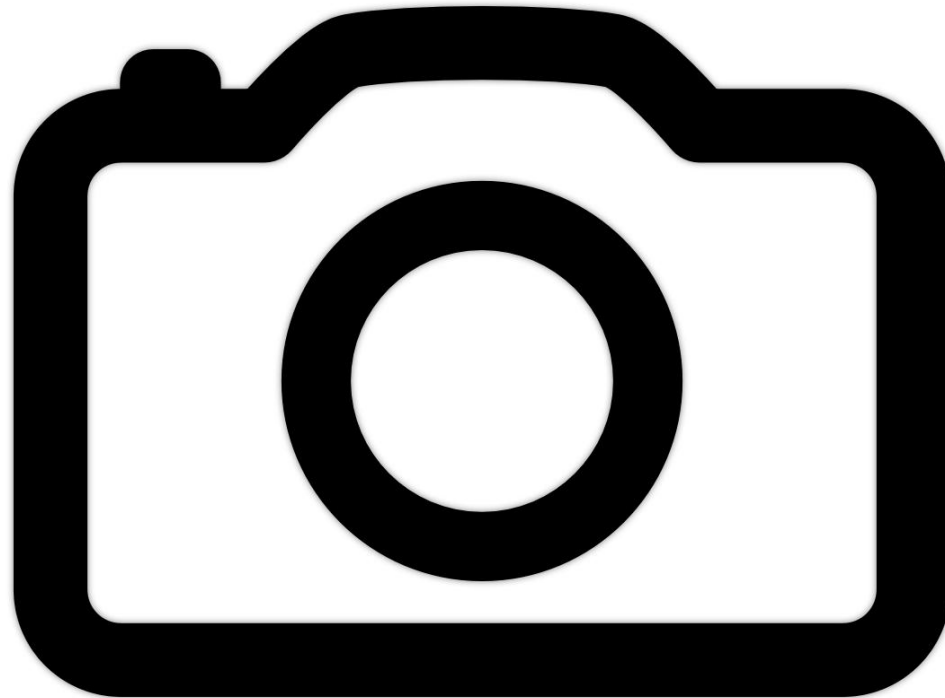


Camera Feed on Background — Unity Asset — by makaka.org



[Camera Feed on Background](#) — Unity Asset that uses Back/Rear Camera on the player's mobile device to display the Live Video Input on the Background of the Scene. **Safety First.**

It doesn't use any Motion Sensor of a Mobile Device (Gyroscope or Accelerometer) to rotate the Game World like in [AR Camera Lite \(docs\)](#) or in [AR + VR: MR Camera \(docs\)](#).

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Features of Camera Feed

Bring the enchanting Power of Camera Feed into your amazing Game or App:

- ★ Cross-platform Camera Feed: iOS, Android.
- ★ Device Orientations: Portrait, Landscape.
- ★ Smartphone Cameras: Rear/Back, Front/Face/Selfie.
- ★ Instant Launch after granting the camera permission.
- ★ Quick Testing in Unity Editor with Web Camera.

Package Contains

- ★ Demo Scene with Camera Feed.
- ★ Menu Scene with Safety Tutorial.
- ★ Permission Scene with Camera Permission Request using free [Native Camera](#).
- ★ Loading Screen to switch scenes seamlessly.

[Check the Map of Unity Assets](#) to choose the product that best suits your needs.

Limitations

Asset doesn't operate with Native Code and relies on [WebCamTexture](#) class.

Any possible Limitations are related to this class.

Use Cases of Camera Feed

With adding rotation of the Game Camera with the Motion Sensor of a Mobile Device (Gyroscope or Accelerometer), [Camera Feed on Background](#) can be used as a "Pseudo AR Camera" to display 2D or 3D objects as though they were in the real world.

This technique was implemented in [AR Camera Lite \(docs\)](#).

With integration of [Google Cardboard XR Plugin](#), the [Camera Feed on Background](#) can be used as a Mixed Reality (MR) Camera. This idea was implemented in [AR + VR: Mixed Reality Camera \(docs\)](#).

[AR Shooter \(docs\)](#).

[AR Basketball \(docs\)](#).

[AR Throw & Score \(docs\)](#).

[AR Throwing \(docs\)](#).

Tutorial



*This tutorial is relevant for [Camera Feed on Background 1.3+](#).
Tutorial for the previous version can be found only in the asset folder.*

Getting Started with Camera Feed on the Background

Folders & Files in the package by default:

★ Makaka Games.

Steps



If you have any issues with the first launch, then just Reach Support with Invoice Number and Get Help.

If you read this tutorial from PDF, first check the latest docs online to get actual information.

1

Create New Unity Project with [Unity 2021.3.21](#) & "3D" Template.

2

File > Build Settings > iOS or Android > Switch Platform.

3

Next Packages must be manually installed with [Git & Unity Package Manager](#):

★ [Native Camera 1.3.8](#).

4

Download and import [Camera Feed on Background](#) into Unity.

5

Window > TextMeshPro > Import TMP Essential Resources.

6

Reopen Unity Project.

7

Open Scene: Makaka Games > Camera > Camera Feed On Background > Scenes > Demo.

8

File > Build Settings > Add Scenes to build:

★ Menu,

★ Permission_Camera (from Makaka Games > Permissions > Camera > Scenes),

★ LoadScreen (from Makaka Games > Publisher > Everyday Tools > SceneControl > Scenes),

★ Demo.

9

File > Build Settings > Player Settings > iOS > Other Settings > Camera Usage Description > Fill it (any notice for your app).

10

Test in the Unity Editor or Build for Mobile.

Useful Article: [How to Test iOS App without Developer Account?](#)

Placing Visible Game Objects

If you need to place visible Non-UI Game Objects over the Device Camera Feed, then just Activate the Game Object called *Game World*, and place Game Objects inside it.

Game World contains a separate Camera for this task: *Main Camera*.

After activating, you will have 2 Game Cameras in the Scene:

- ★ *Background Camera* (UI Layer) for Device Camera Feed and UI.
- ★ *Main Camera* (other Layers) for visible Non-UI Game Objects.



*Game Objects will not move based on Device Movement.
Use [AR Camera Lite \(docs\)](#) or [AR + VR: MR Camera \(docs\)](#) instead.*

Testing

You can test Camera Feed quickly in Unity Editor without a Smartphone through physical Web Camera.

Tested with Devices

★ iOS on iPhone XS Max.

★ Android on Samsung Galaxy A71.

If you need WebGL support, please use a 3rd party asset called [Device Camera WebGL](#).

Known issues

Black screen on iOS

You just need to fill Camera Usage Description in Unity Editor:

File > Build Settings > Player Settings > iOS > Other Settings > Camera Usage Description.

Support

First, [read the latest docs online](#).

If it didn't help, [get the support](#).

Changelog

Check the current version of [Camera Feed on Asset Store](#).

The latest versions will be added as soon as possible.

1.3:

Features:

★ Front Camera Support.

1.2:

Improvements:

★ Unity 2021.3.21.

Fixes:

★ Zoom Effect of Camera Feed in Vertical/Portrait Mode.

1.1:

Features:

★ Horizontal/Landscape Mode support.