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## **Quick Start**

Please note that the code provided in this page is *purely* for learning purposes and is far from perfect. Remember to null-check all responses!

#### **AndroidManifest Setup**

You will have to define the following permissions in your Android Manifest:

```
<uses-permission android:name="android.permission.CAMERA" android:required="true"/>
<uses-permission android:name="horizonos.permission.HEADSET_CAMERA"
android:required="true"/>
```

This package cannot request these permissions for you during runtime, you will have to do that manually.

#### **Project Setup**

Add an instance UCameraManager to the first scene that is loaded in your app. You can do this by right-clicking in the scene Hierarchy -> under Quest Camera -> click on Quest Camera Manager. This will add an instance of UCameraManager with the correct YUV 4:2:0 to RGBA converting compute shader. This is required as the Meta Quest's camera streams in the YUV format. UCameraManager is persistent across scenes, so you do not have to create more instances of it.

## **Example Usage**

The following script will display the camera stream to a RawImage:

```
using System.Collections;
using UnityEngine;
using UnityEngine.UI;
using Uralstech.UXR.QuestCamera;

public class CameraTest : MonoBehaviour
{
    [SerializeField] private RawImage _rawImage;

    private IEnumerator Start()
    {
        // Check if the current device is supported.
        if (!CameraSupport.IsSupported)
        {
            Debug.LogError("Device does not support the Passthrough Camera API!");
            yield break;
```

```
// Get a camera device ID.
        string currentDevice = UCameraManager.Instance.CameraDevices[0];
       // Get the supported resolutions of the camera and choose the highest resolution.
        Resolution highestResolution = default;
        foreach (Resolution resolution in
UCameraManager.Instance.GetSupportedResolutions(currentDevice))
       {
            if (resolution.width * resolution.height > highestResolution.width
* highestResolution.height)
                highestResolution = resolution;
       }
       // Open the camera.
       CameraDevice camera = UCameraManager.Instance.OpenCamera(currentDevice);
       yield return camera.WaitForInitialization();
       // Check if it opened successfully
       if (camera.CurrentState != NativeWrapperState.Opened)
        {
            Debug.LogError("Could not open camera!");
            // Very important, this frees up any resources held by the camera.
            Destroy(camera.gameObject);
            yield break;
        }
        // Create a capture session with the camera, at the chosen resolution.
       CameraDevice.CaptureSessionObject sessionObject =
camera.CreateCaptureSession(highestResolution);
       yield return sessionObject.CaptureSession.WaitForInitialization();
       // Check if it opened successfully
        if (sessionObject.CaptureSession.CurrentState != NativeWrapperState.Opened)
            Debug.LogError("Could not open camera session!");
            // Both of these are important for releasing the camera and session resources.
            Destroy(sessionObject.GameObject);
            Destroy(camera.gameObject);
            yield break;
        }
        // Set the image texture.
```

```
_rawImage.texture = sessionObject.TextureConverter.FrameRenderTexture;
}
```

# **Breaking Changes Notice**

If you've just updated the package, it is recommended to check the *changelogs* for information on breaking changes.