

Agenda for Today

Camera Intro

- ❑ Ricoh Theta V

Cool Usage Examples

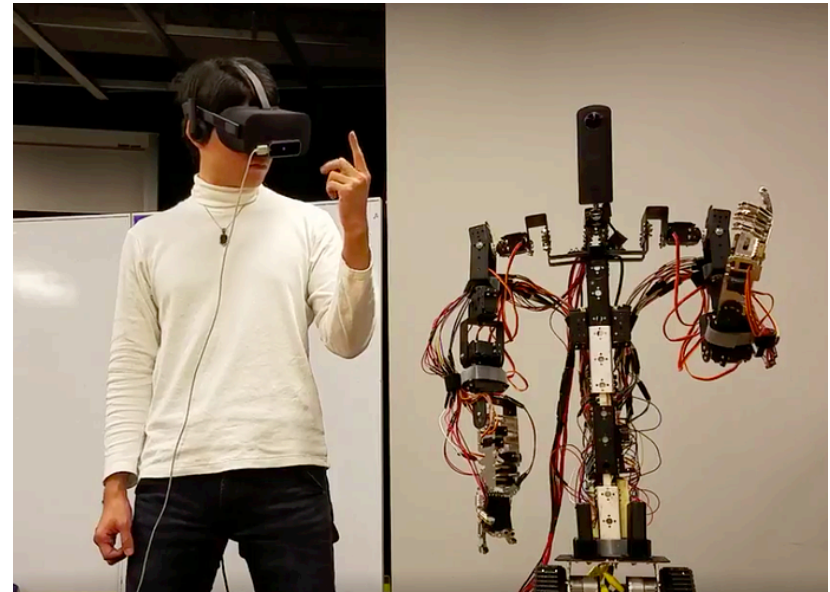
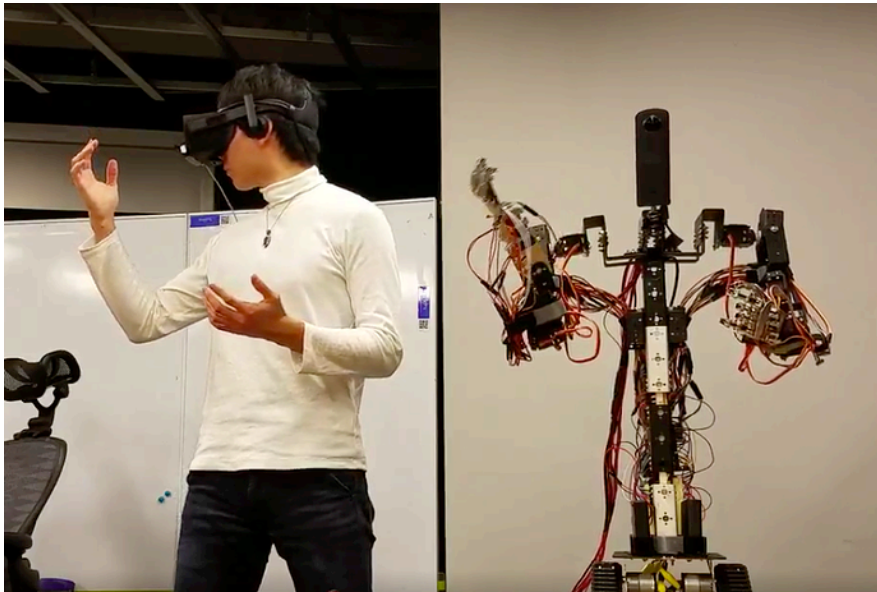
- ❑ Telepresence robot
- ❑ Live streaming to SteamVR headset

Good tools for this weekend

- ❑ 360 video (from file) in Unity
- ❑ 360 VR gallery using JavaScript A-Frame
- ❑ 360 camera control from Raspberry Pi

Example of cool useage

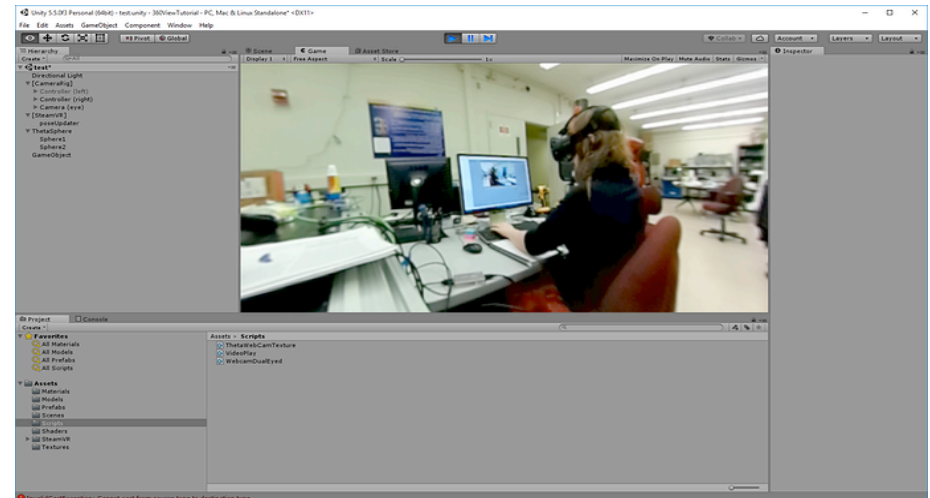
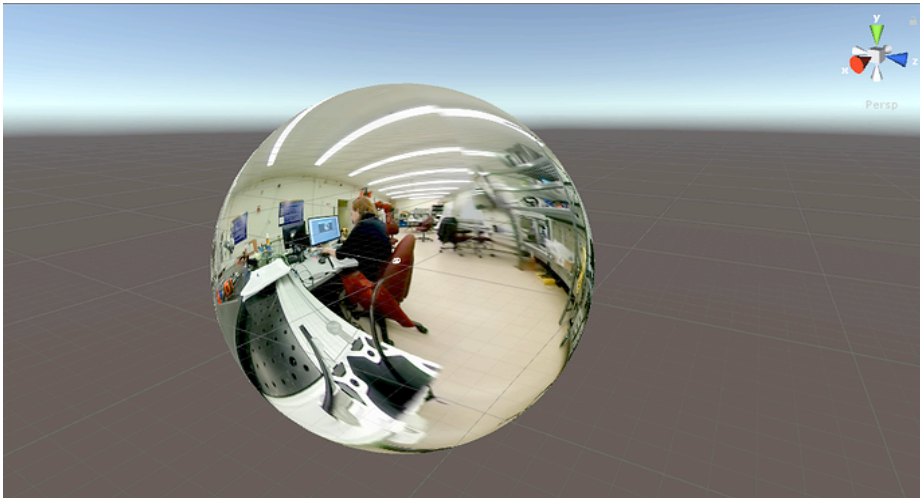
- ❑ [Tutorial : Telepresence Robot Uses RICOH THETA](http://lists.theta360.guide/t/telepresence-robot-uses-ricoh-theta/943)



<http://lists.theta360.guide/t/telepresence-robot-uses-ricoh-theta/943>

Another example of cool useage

❑ [Tutorial: Live Ricoh Theta S Dual Fish Eye for SteamVR in Unity](http://lists.theta360.guide/t/tutorial-live-ricoh-theta-s-dual-fish-eye-for-steamvr-in-unity)



<http://lists.theta360.guide/t/tutorial-live-ricoh-theta-s-dual-fish-eye-for-steamvr-in-unity/938>

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RICOH THETA 360 Video (From File) into Unity

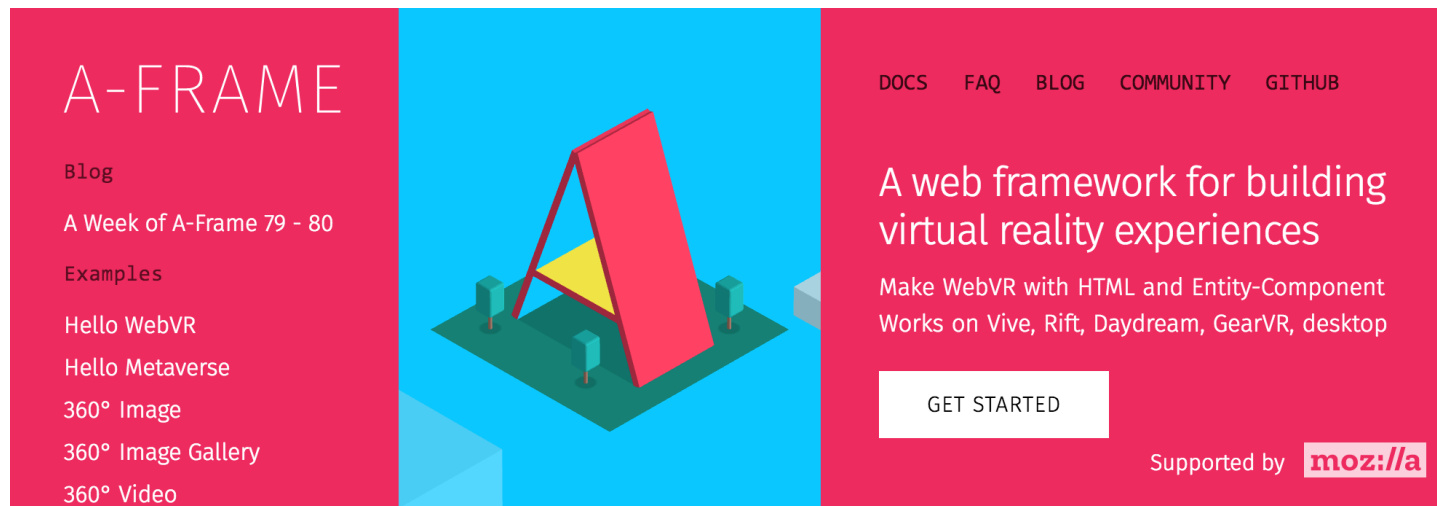
<http://theta360.guide/blog/video,/unity/2016/10/16/video-file-on-unity-sphere.html>

You can wrap a 360 THETA video onto a sphere




Easily Create a 360° Image Gallery For RICOH THETA with A-Frame

<http://lists.theta360.guide/t/easily-create-a-360-gallery-for-ricoh-theta-with-a-frame/456>

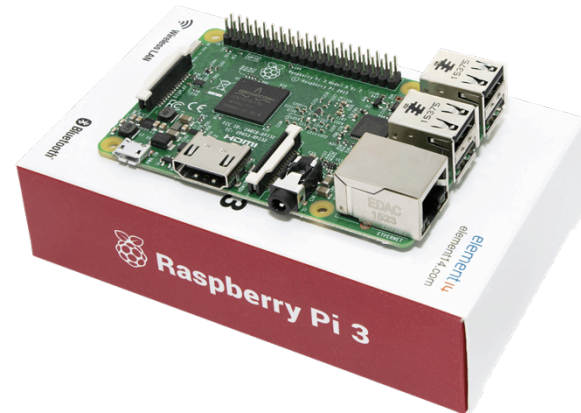


Controlling THETA with Raspberry Pi



	Wifi	USB
Pros	<ul style="list-style-type: none">• OSC API is open source and supported by Google• API Guide, official RICOH THETA API docs and more available• Overall easier to use	<ul style="list-style-type: none">• Much faster transfer rates• No wifi interference issues• Powered through same cable• Possible to reset connection if dropped
Cons	<ul style="list-style-type: none">• Wifi connectivity can be flakey• Wifi range is limited• Can not charge and use wifi at same time	<ul style="list-style-type: none">• PTP API is harder to understand, does not use REST commands• Not as much documentation• PTP specifications, not libraries, are provided• Less tools since not HTTP, can't use a web browser or curl to test

<http://lists.theta360.guide/t/ricoh-theta-api-over-usb-cable-s-v-sc-models/65/54>



Virtual Forest Project

<https://github.com/theta360developers/photosphere>

Little Black Box

<http://lists.theta360.guide/t/the-little-black-box/1292>

Asking Questions This Weekend

bit.ly/thetahack17



Thank you

Prize?

Special Discount Coupon



10% OFF

Visit online store:

<https://us.ricoh-imaging.com/index.php/cameras/theta-v>



Coupon
Code:

THETAVMIT

This code is valid until Oct 31, 2017
Only available for participants of MIT Hackerson Event

Resources

1.1. Official Information

- [RICOH THETA API v2.1 reference](#), compliant with [Open Spherical Camera API level 2](#) from Google.
- [THETA Developers Official Forum](#)
- [Official SDK](#)
- [Windows, Mac, iOS, Android apps](#)

1.2. Unofficial Information

- [Live Streaming Guide](#)
- [Community Discussion](#)
- [New Media Guide](#)

Accessories of *THETA V*

■ 3D Microphone TA-1



<https://us.ricoh-imaging.com/index.php/accessories/theta-22/ta-1>

■ Underwater housing case TW-1



<https://us.ricoh-imaging.com/index.php/accessories/theta-22/tw-1>