

## Using RICOH THETA UVC 4K With OBS

I'm getting excellent results with RICOH THETA UVC 4K. I'm assuming this will be released more widely after the Ricoh team tests it more. I indicated that I would write up my experiences.

Live streaming video quality is excellent, much better than the THETA S. If you do live-streaming, you need to upgrade! This is a massive improvement. It's a game-changer as the THETA S could not really provide an immersive experience for live streaming due to fuzzy details. With the new resolution, telepresence should be great.

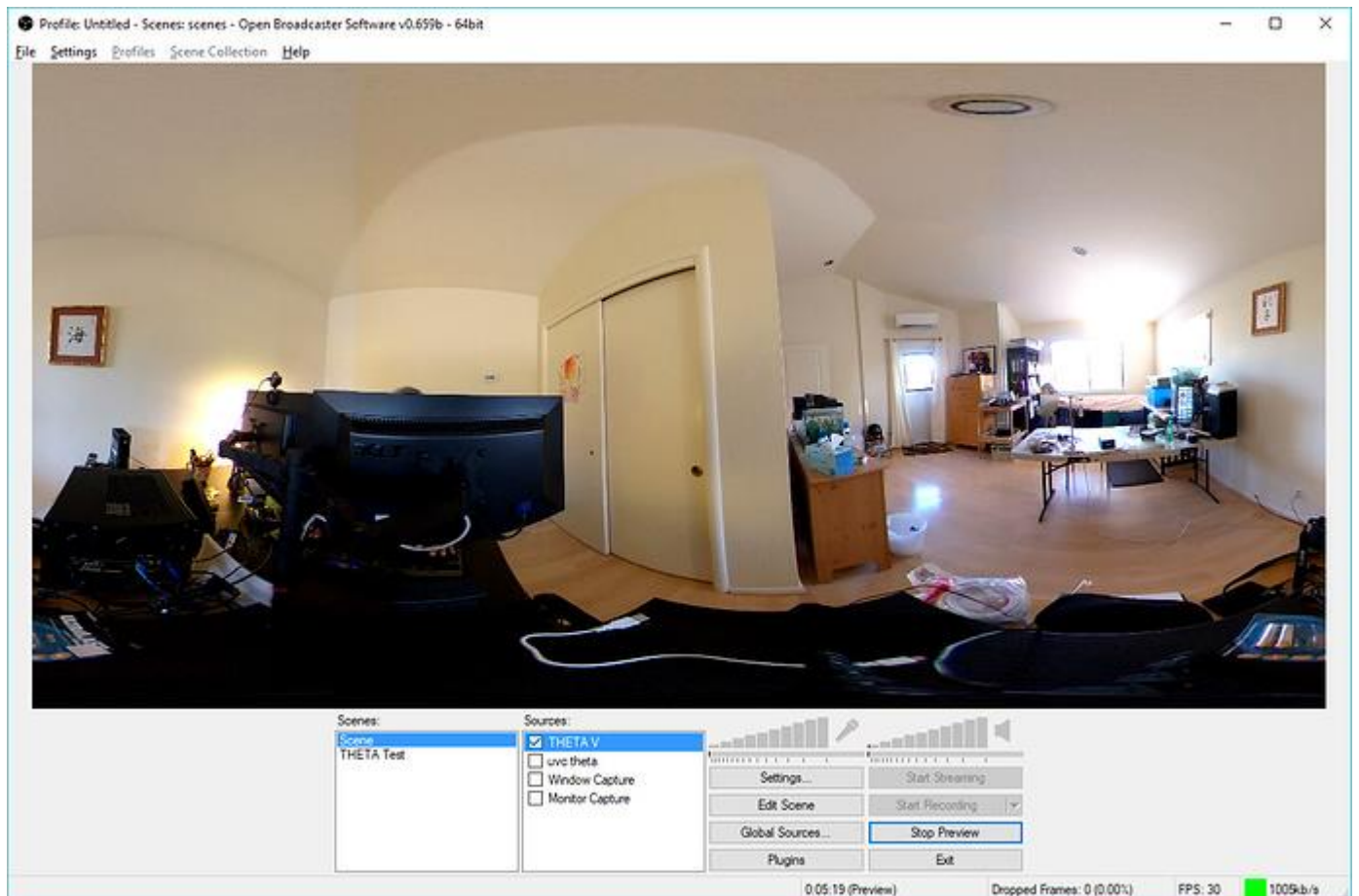
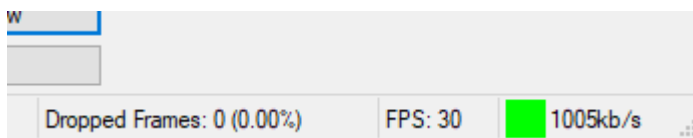


image.jpg1225x815 292 KB

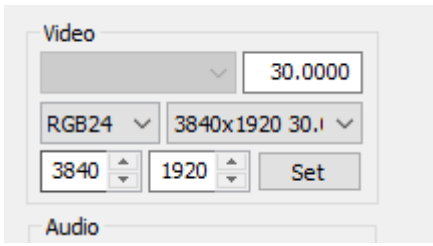


## Using [MPC-HC](#)<sup>92</sup>

Using the pre-release software, I found MPC-HC and OBS to both work great. Live streaming quality and smoothness were excellent.



image.jpg1062x538 174 KB



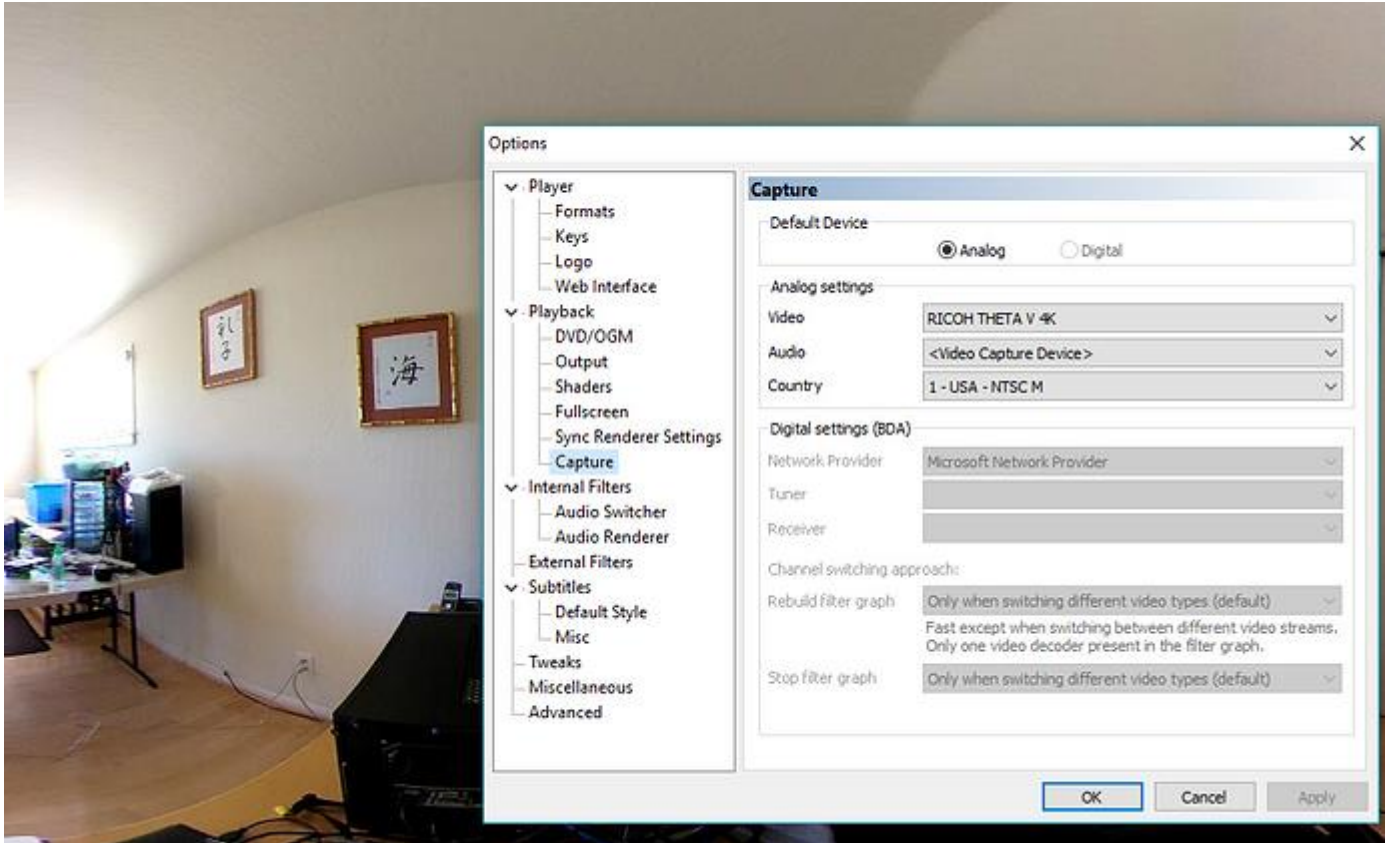


image.jpg995x608 195 KB

Analog  Digital

RICOH THETA V 4K

<Video Capture Device>

1 - USA - NTSC M

1)

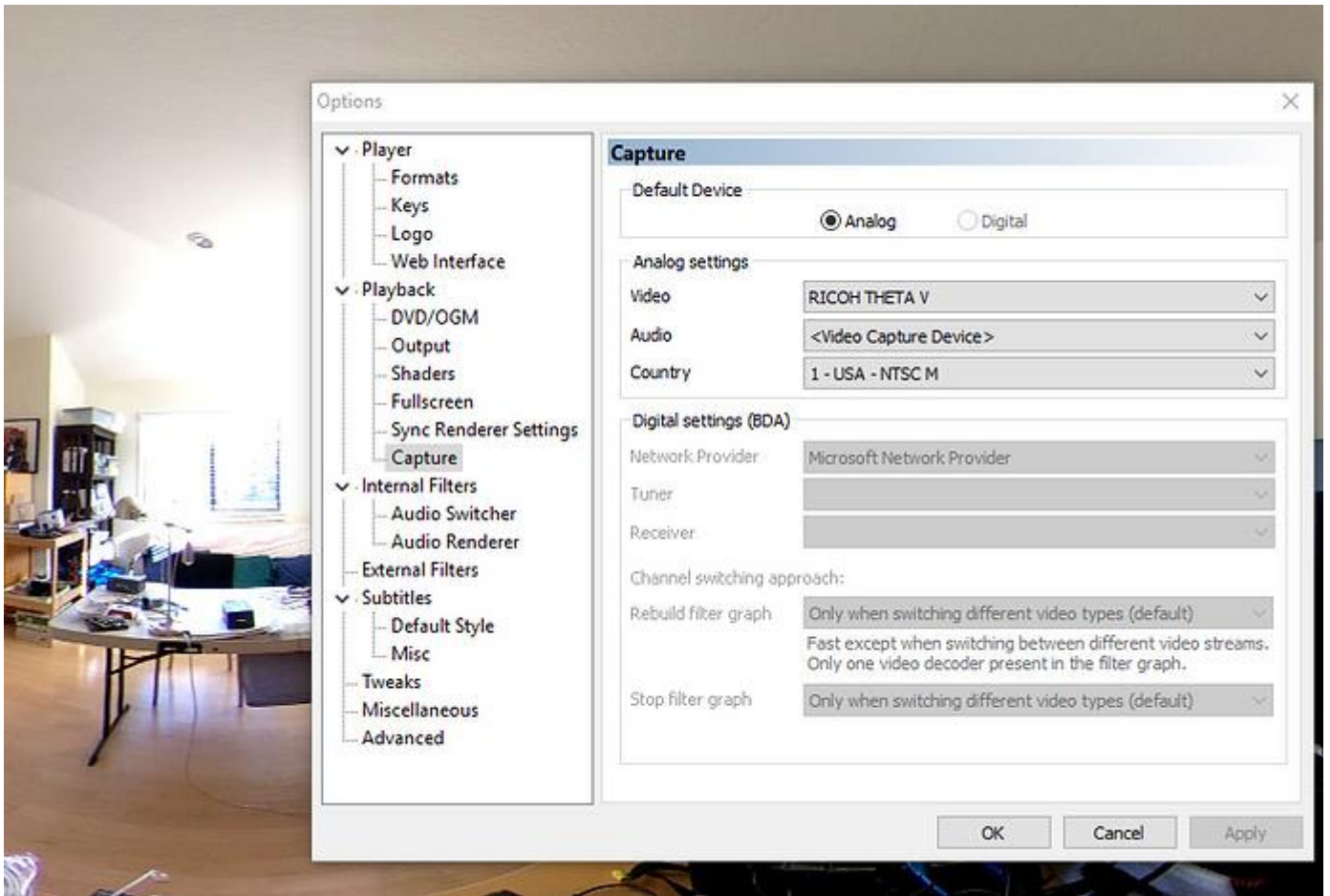


image.jpg848x573 167 KB

▶ || ■ | ◀◀ ▶▶ | ▶▶▶

Frame rate	29.61 (1.00x)
Sync Offset	avg: 0 ms, dev: 0 ms
Frames	drawn: 10183, dropped: 0
Jitter	0 ms

🎬 Playing

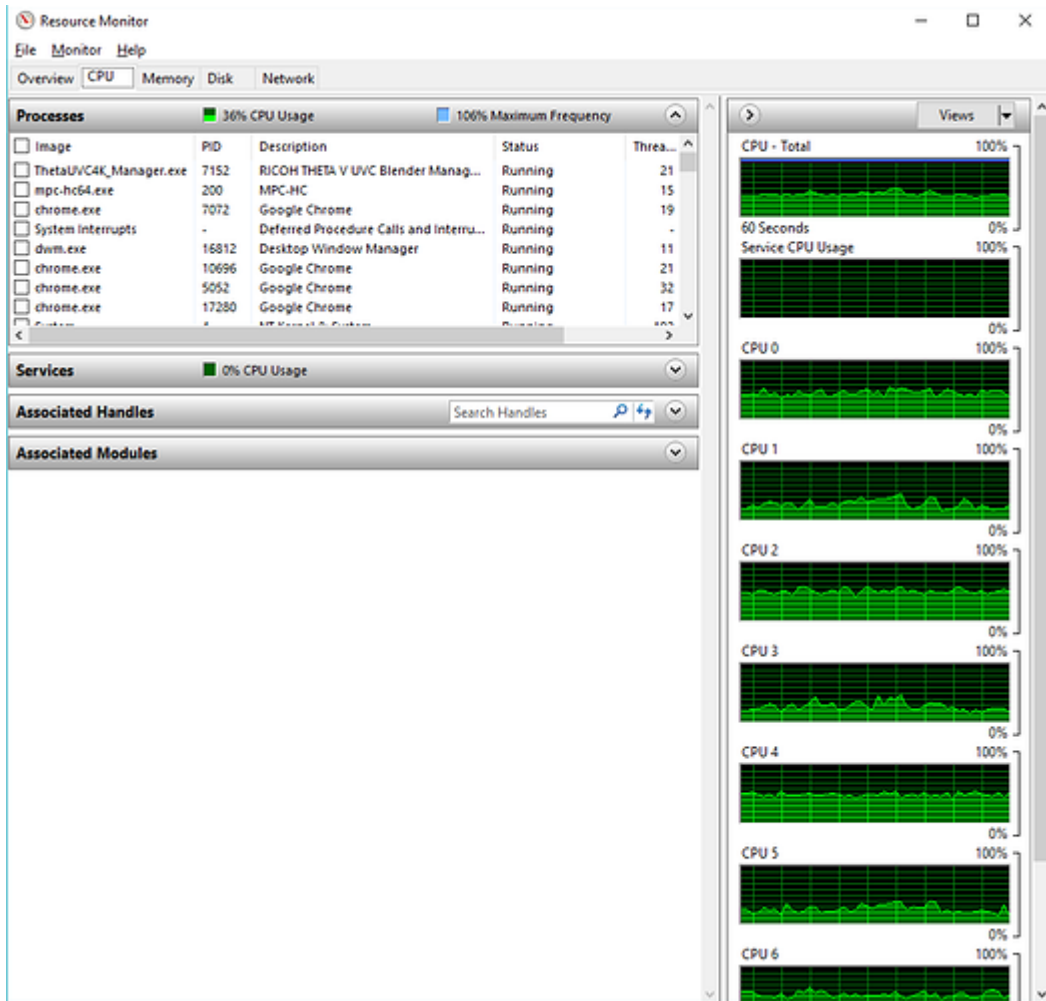
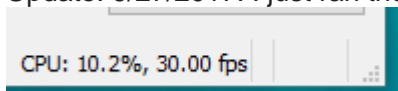


image.png914x873 32.7 KB

## OBS

Update: 9/27/2017. I just ran the test again and am now only seeing 10% system load on OBS 19.0.3.



Note that a previous version of this article showed high load on OBS 0.65, which I mistakenly used for my test. This is old software. I'm running the test again for OBS 19.0.3 now. CPU load is now 10%.

- 16 GB of system RAM
- CPU: Intel i7 4790K (4 core)
- GPU: NVIDIA GeForce GTX 750 Ti

OBS 19.0.3 (64bit, windows) - Profile: Untitled - Scenes: Untitled

File Edit View Profile Scene Collection Tools Help



Scenes

Sources

Mixer

Scene Transitions

- UVC Blender
- JavaScript Lecture
- Right Monitor
- RICOH R Dev Kit
- THETA S
- THETA V

THETA V

+

-

⚙

^

v

THETA V 0.0 dB

Desktop Audio -inf dB

0.0 dB

-inf dB

Fade

+

-

⚙

Duration 300ms

Start Streaming

Start Recording

Studio Mode

Settings

Exit

LIVE: 00:00:00 REC: 00:00:00 CPU: 9.9%, 30.00 fps

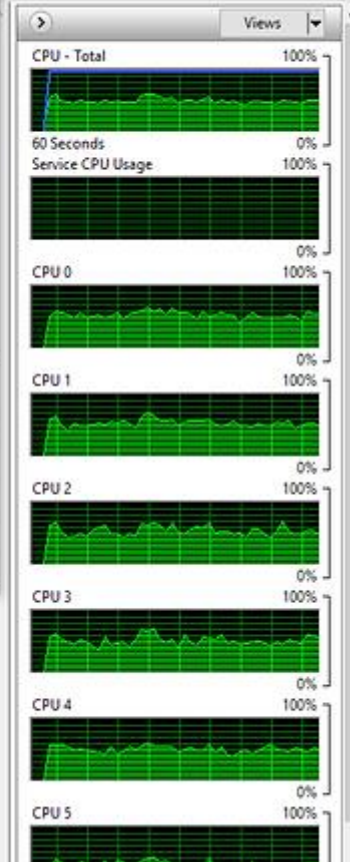
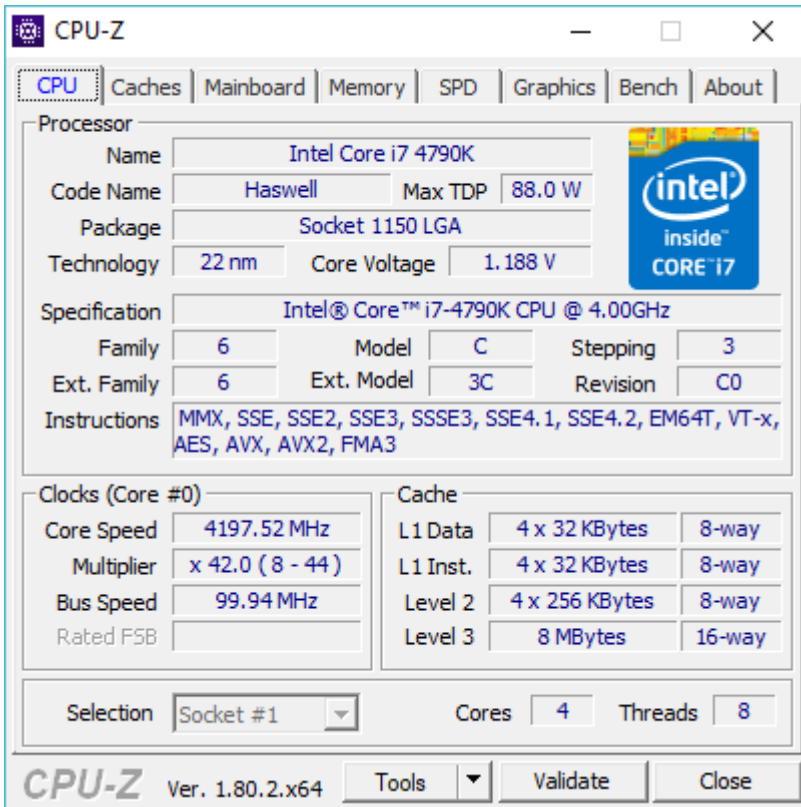
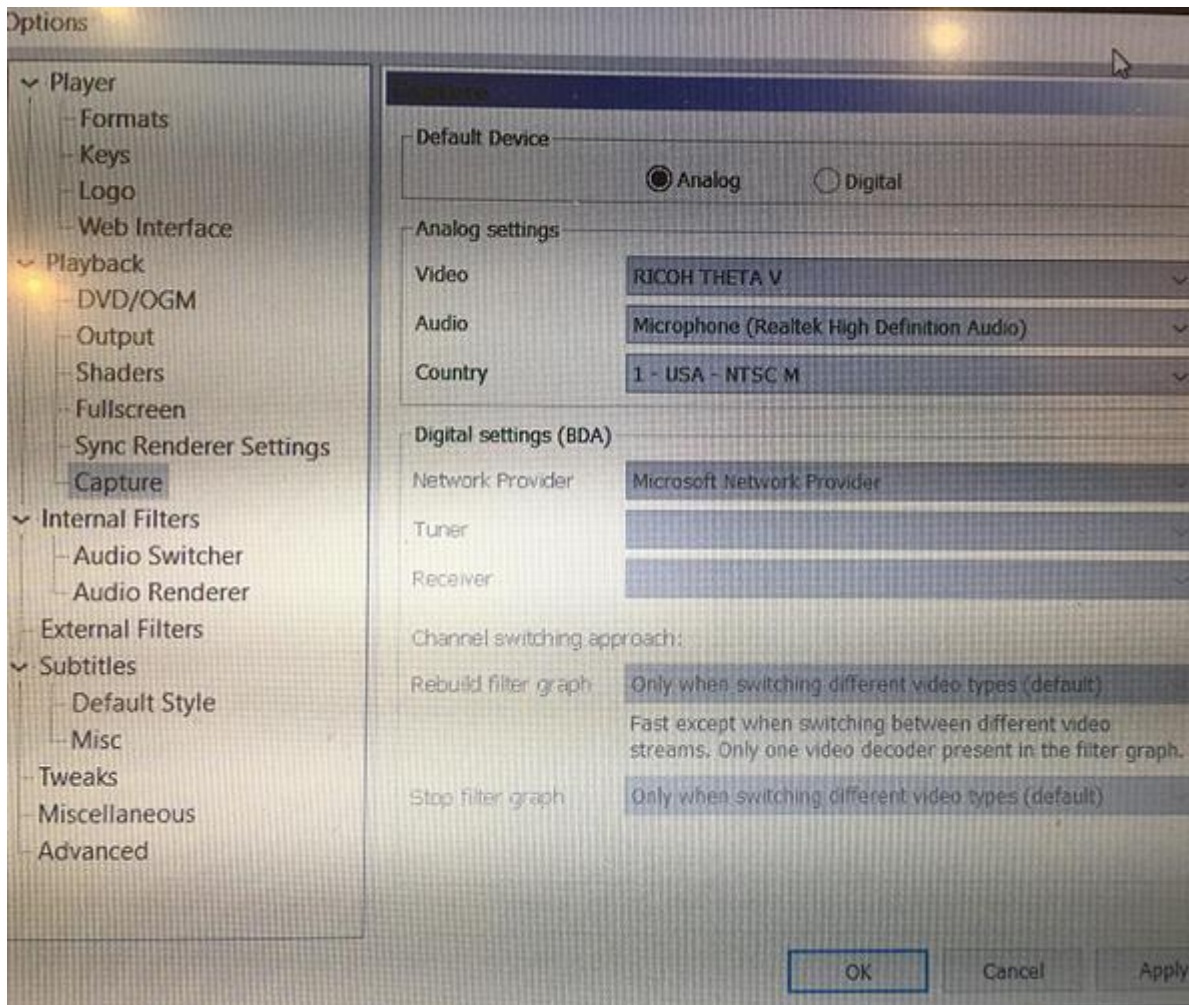


image.png1126x773 260 KB



## Note on Using MPC-HC Without UVC 4K Driver

Don't select Microphone (RICOH THETA V) as Audio. If you set it, MPC-HC does not show the live stream from the RICOH THETA V as a web cam. It's an issue with the Windows USB driver. If you set as the screen below, you can see the live from the RICOH THETA V on the MPC-HC without UVC4K.



mpc-hc.png691x584 722 KB

**Update: 11/7/2017 - tested THETA V driver with MPC-HC**



Live | RICOH THETA V

File View Play Navigate Favorites Help

Video

H264 Default

0 0 Set

Audio

Output

Record Video

Preview

Uncompressed

Record Audio

Preview

Uncompressed

V/A Buffers: 50 50

C:\Users\Craig\Documents ...

AVI

Audio to wav Record

Using THETA V driver not UVC 4K

Frame rate 29.97 (1.00x)

Sync Offset avg: 0 ms, dev: 0 ms

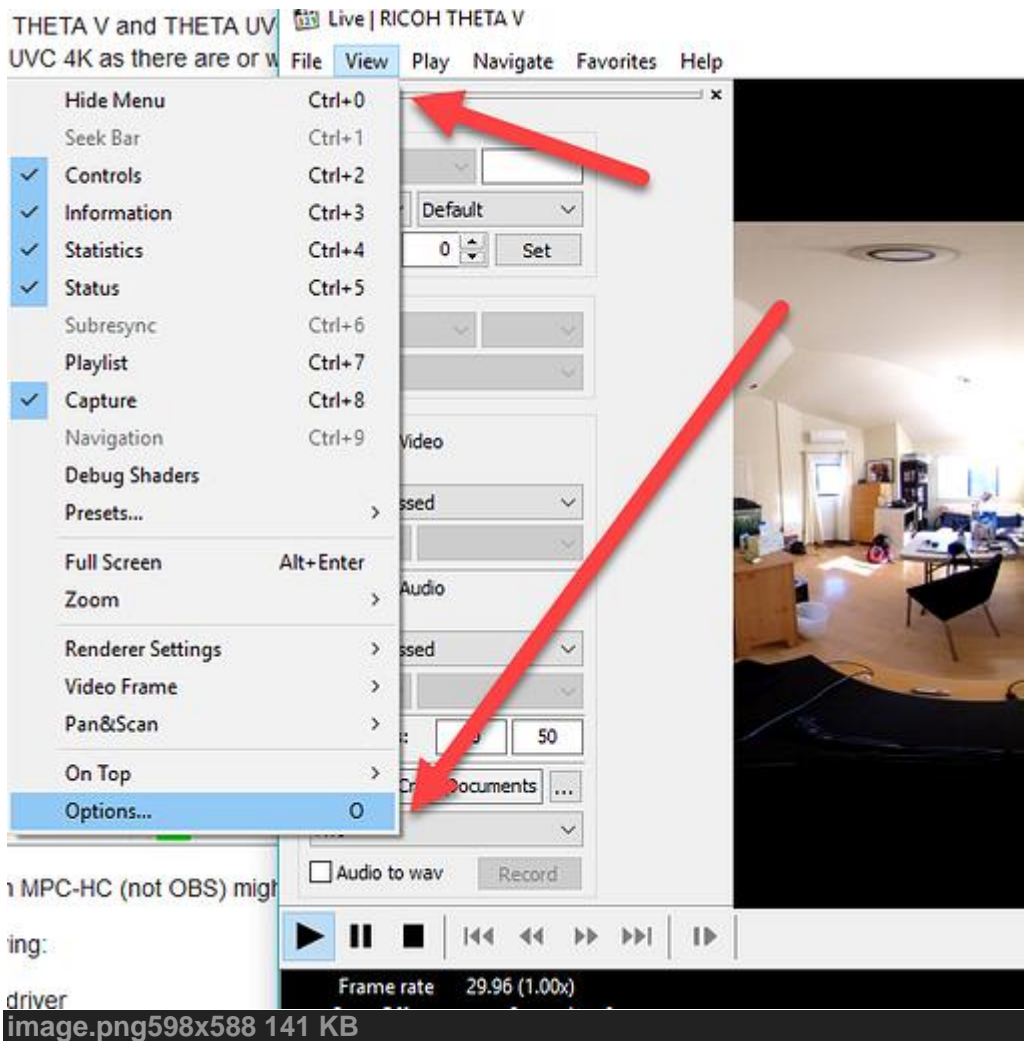
Frames drawn: 1066, dropped: 0

Jitter 0 ms

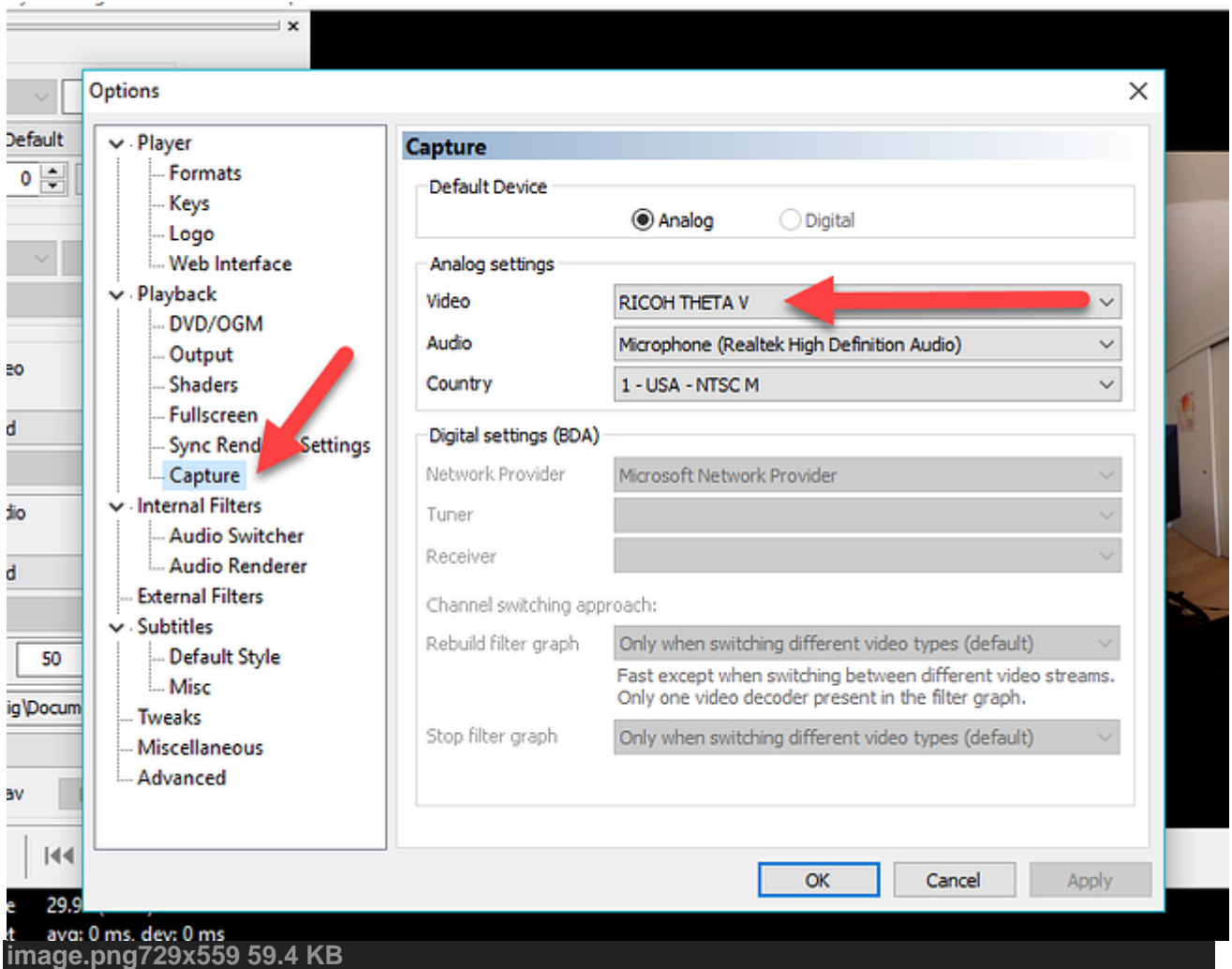
Playing [H/W] Live 4x

image.jpg910x666 170 KB

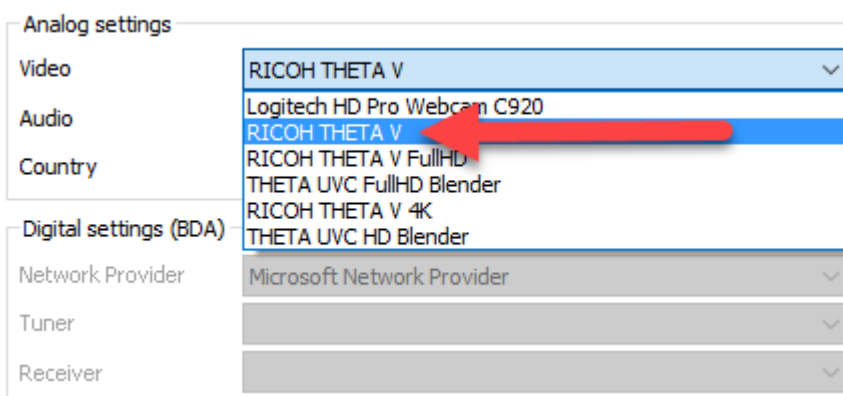
To access the settings, go to View -> Options



Under options, select Capture - > Video



On my system, I have a multiple webcams and multiple drivers. Select RICOH THETA V.



## 2 Hour 4K Stream Test

No problems with heat.

Alarms & Clock


Alarm World Clock Timer **Stopwatch**

**02:19:25.46**

⏸

RICOH THETA V Properties

General


 RICOH THETA V

Model name: RICOH THETA V

Manufacturer: Ricoh Company, Ltd.

Firmware version: 1.00.2


Serial number: 00101082

 Power source: Battery

87%

OBS 19.0.3 (64bit, windows) - Profile: Untitled - Scenes: Untitled

File Edit View Profile Scene Collection Tools Help



Scenes Sources Mixer Scene Transitions

UVC Blender  
JavaScript Lecture  
Right Monitor  
RICOH R Dev Kit  
THETA S  
THETA V

THETA V

THETA V 0.0 dB

Desktop Audio -inf dB

Fade

Duration 300ms

LIVE: 00:00:00 REC: 00:00:00 CPU: 10.7%, 30.00 fps

image.jpg1184x627 219 KB