

Remote Performance Recording Setup

1. Connect Webcam & External Microphone to Your Computer

- The microphone may (or may not) need the adapter(s) provided.
- If using the microphone adapter and extension cable, **the adapter should connect directly to the computer**, then to the extension cable, then to the microphone.

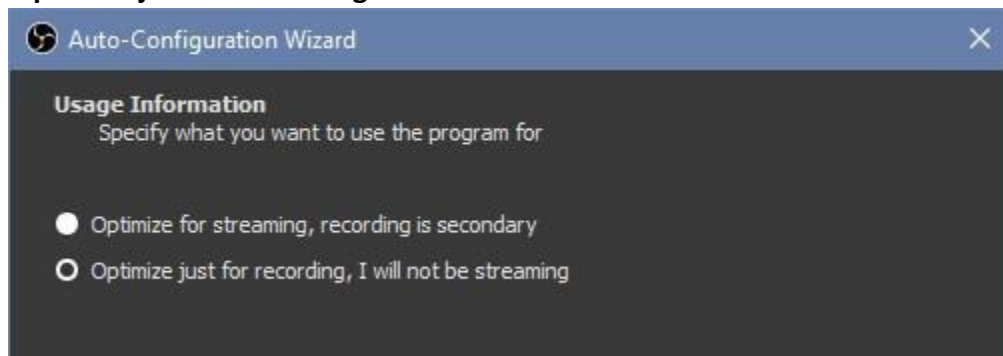
2. Download & Install:

- Latest version of Zoom (<https://zoom.us/download>)
- Open Broadcaster Software (OBS) (<https://obsproject.com/>)
 - Make sure to download **version 26.0 or above**

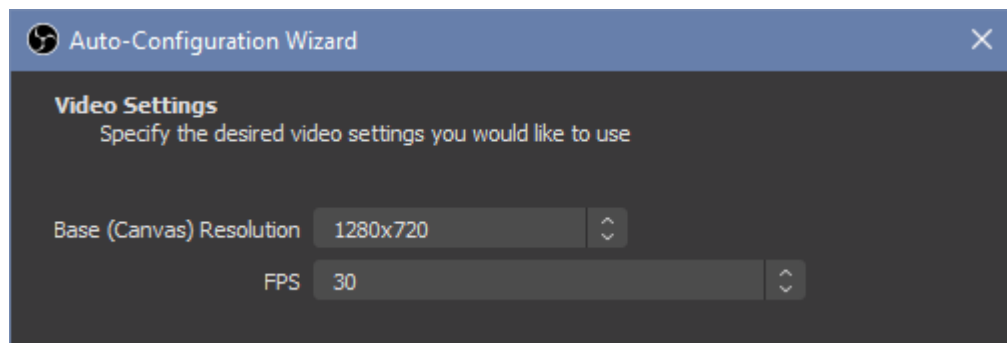
Open Broadcaster Software Setup

3. Open & Setup OBS

- When prompted at first open, start the **Auto-Configuration Wizard**
- Select **“Optimize just for recording...”**

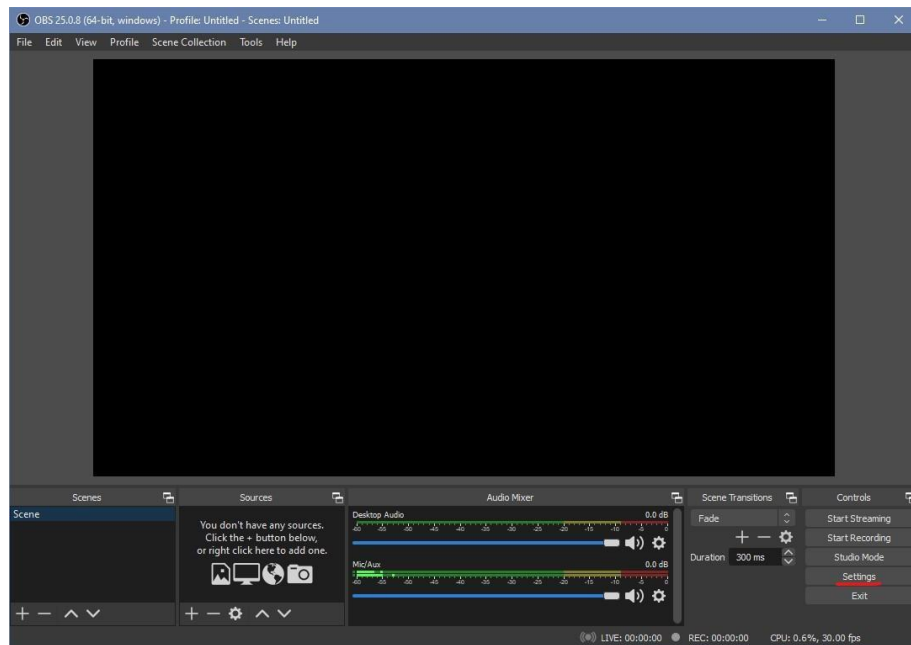


- Set base video resolution to **1280x720** and FPS to **30**

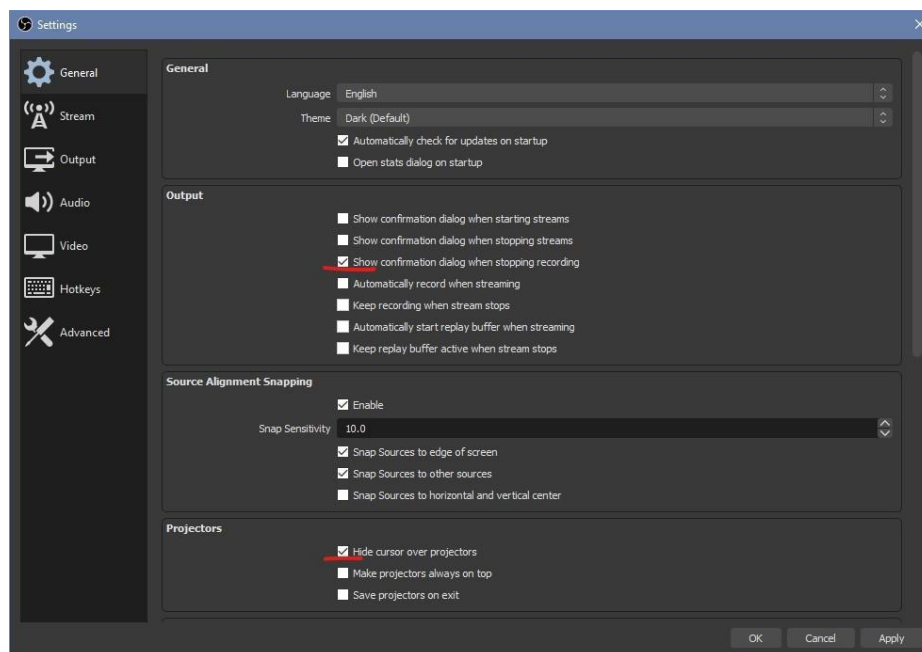


- Apply settings

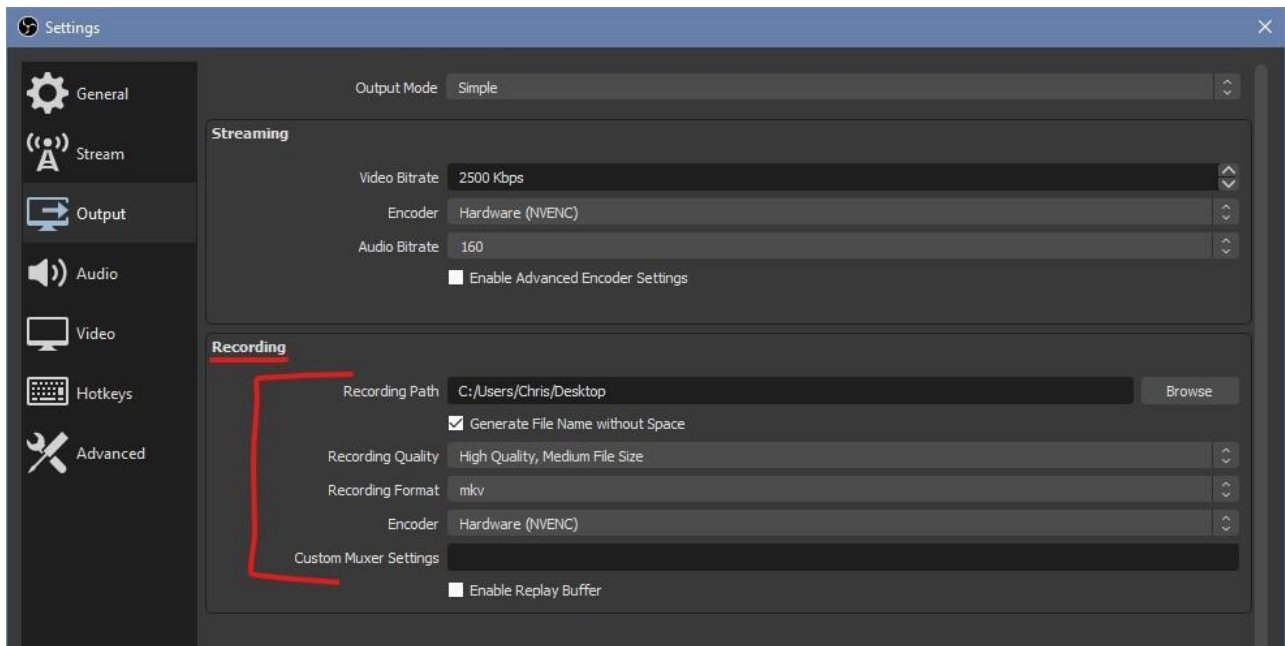
4. Adjust OBS Settings



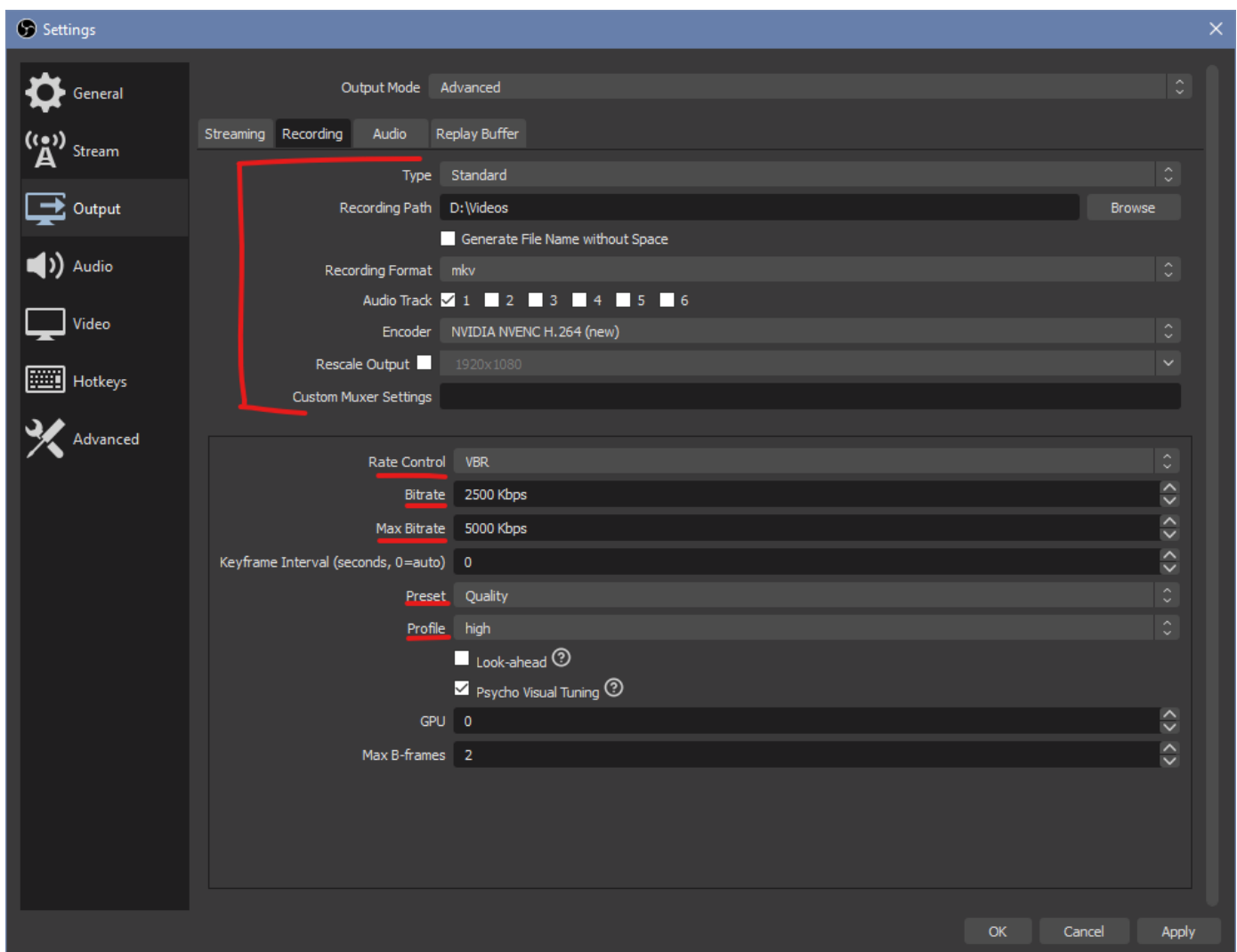
- General Tab
 - Check **“Show confirmation dialog when stopping recording”**
 - Check **“Hide cursor over projectors”**



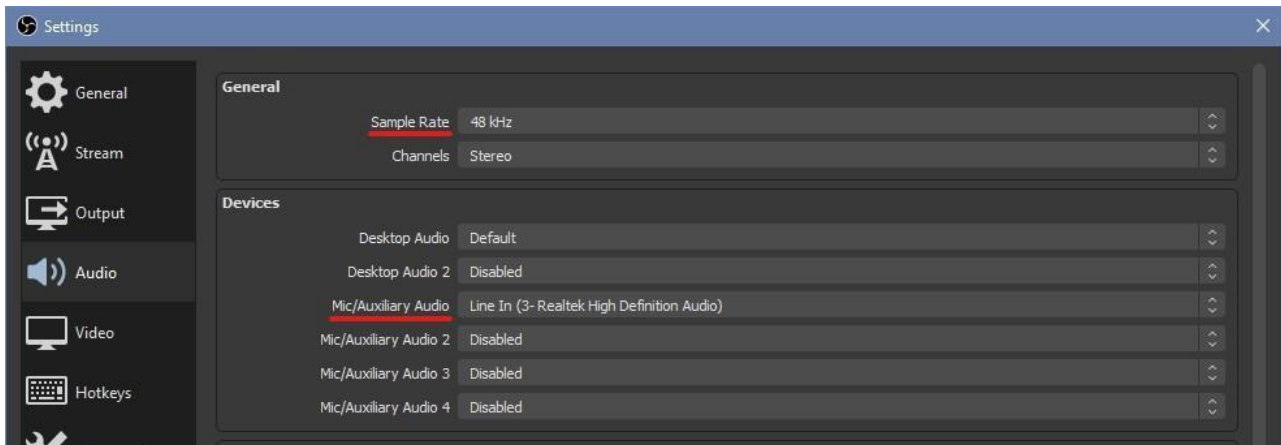
- Output Tab
 - Change record settings to:
 - **Path** = your Desktop (or other easy to find location)
 - Check **“Generate File Name without Space”**
 - **Quality** = **“High Quality, Medium File Size”**
 - **Format** = **“mkv”**
 - **Encoder** = **“Software (x264 low CPU usage preset, increases file size)”**



- If you **do not** see the **Recording** options above:
 - Change **Output Mode** = **"Advanced"**
 - Click on the Recording tab
 - **Path** = your Desktop (or other easy to find location)
 - Check **"Generate File Name without Space"**
 - **Format** = **"mkv"**
 - **Encoder** = **"Software (x264 low CPU usage preset, increases file size)"**
 - **Rate Control** = **"VBR"**
 - **Bitrate** = **2500 Kbps**
 - **Max Bitrate** = **5000 Kbps**
 - **Preset** = **"Quality"**
 - **Profile** = **"High"**



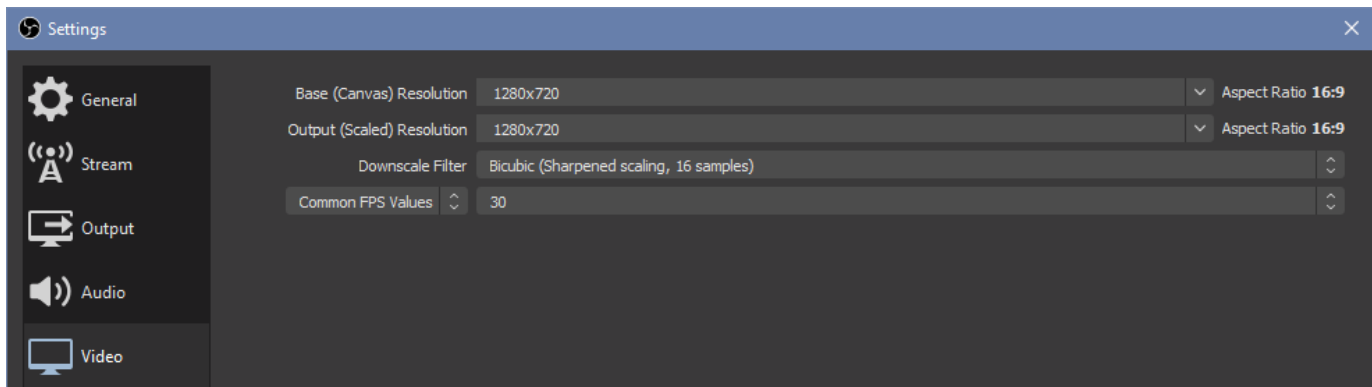
- Audio Tab
 - Set Sample Rate = **48 kHz**
 - Set Mic/Auxiliary Audio = **Line In / External Microphone**



- Video Tab

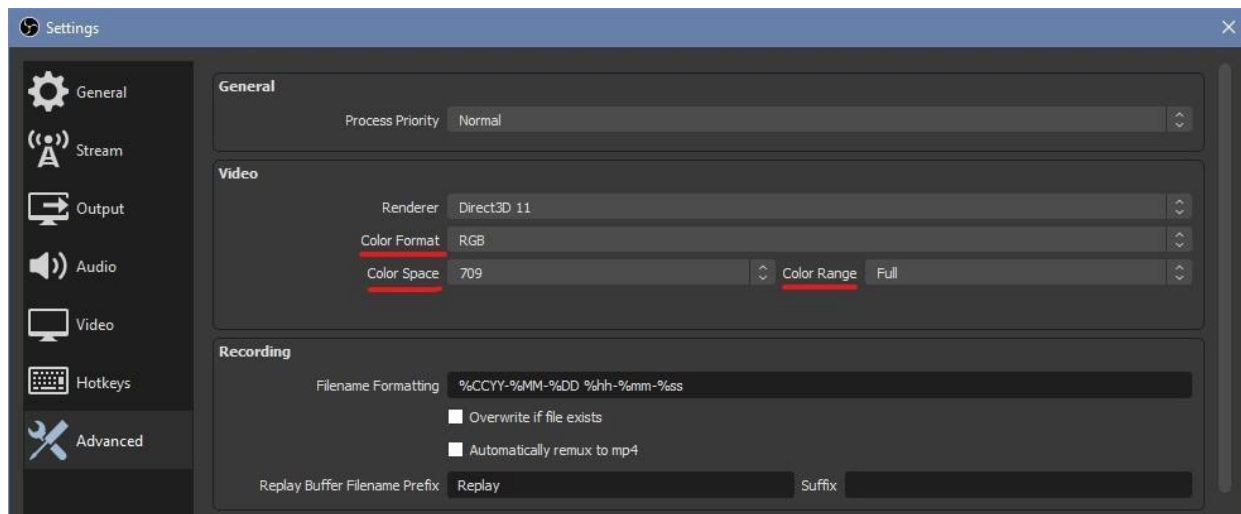
- Confirm settings match image below – especially **Output = 1280x720**. Adjust as needed.

20



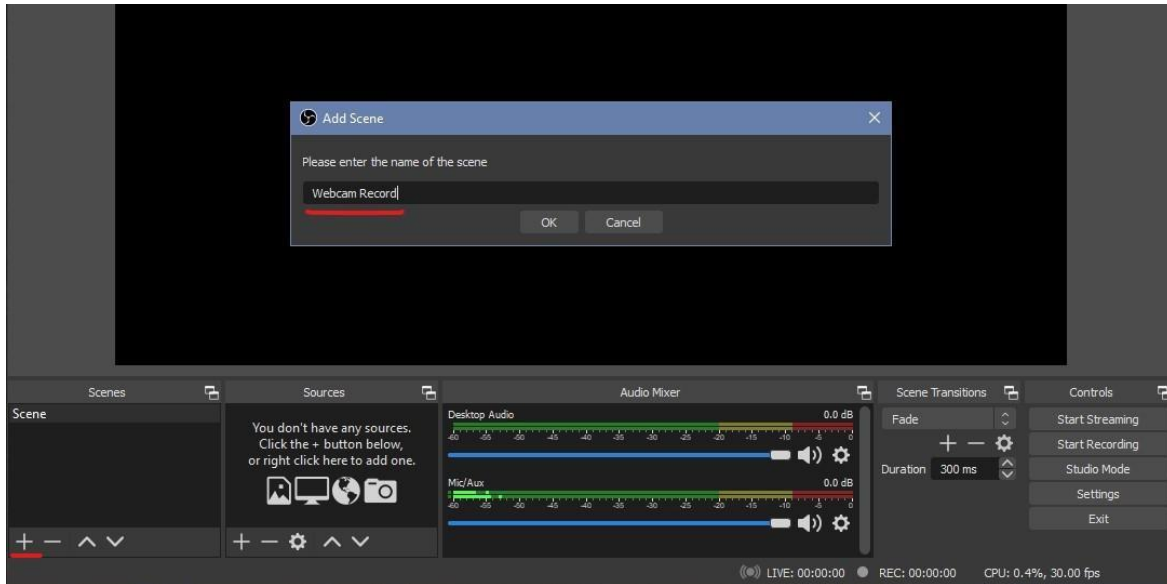
- Advanced Tab

- Do **not** change renderer
- Change these settings:
 - **Color Format = “RGB”**
 - **Color Space = “709”**
 - **Color Range = “Full”**



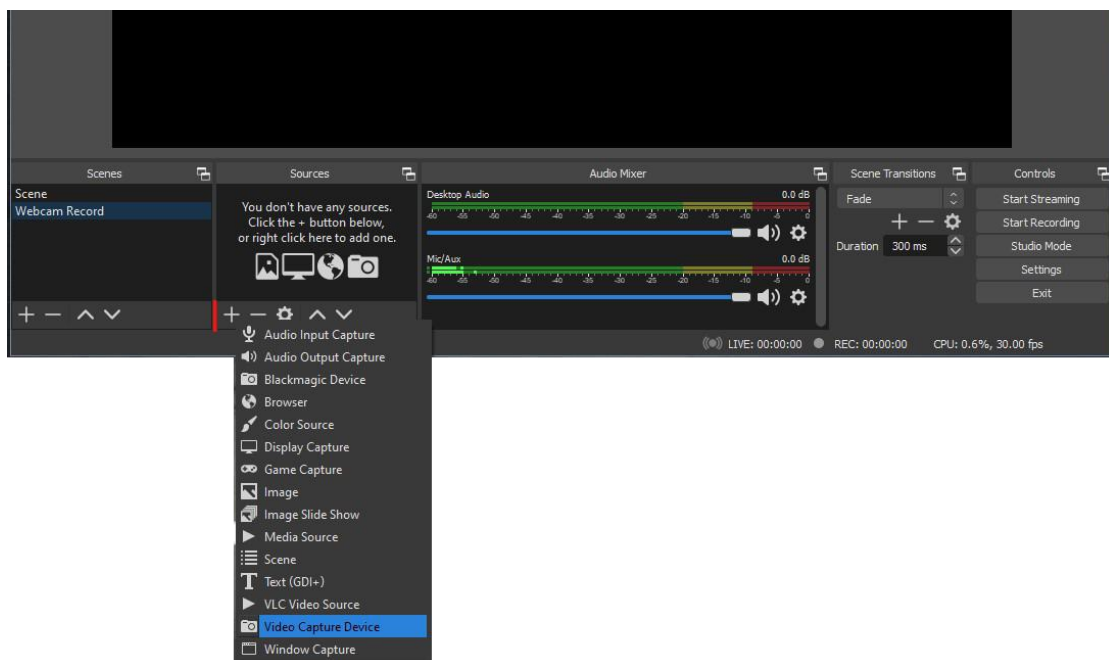
5. Create a New Scene

- In the Scene box, click the plus icon to add a new scene. Name it **“Webcam Record”**

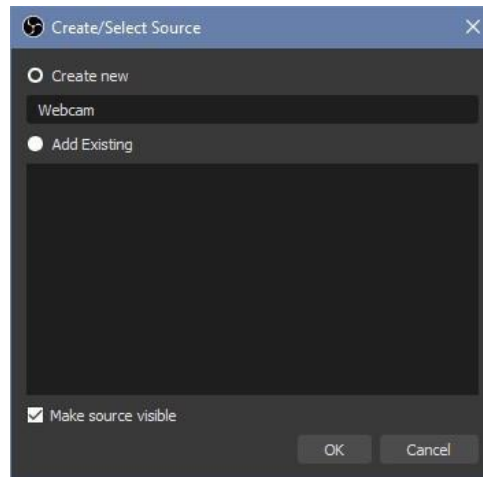


6. Add Video Source to the “Webcam Record” Scene

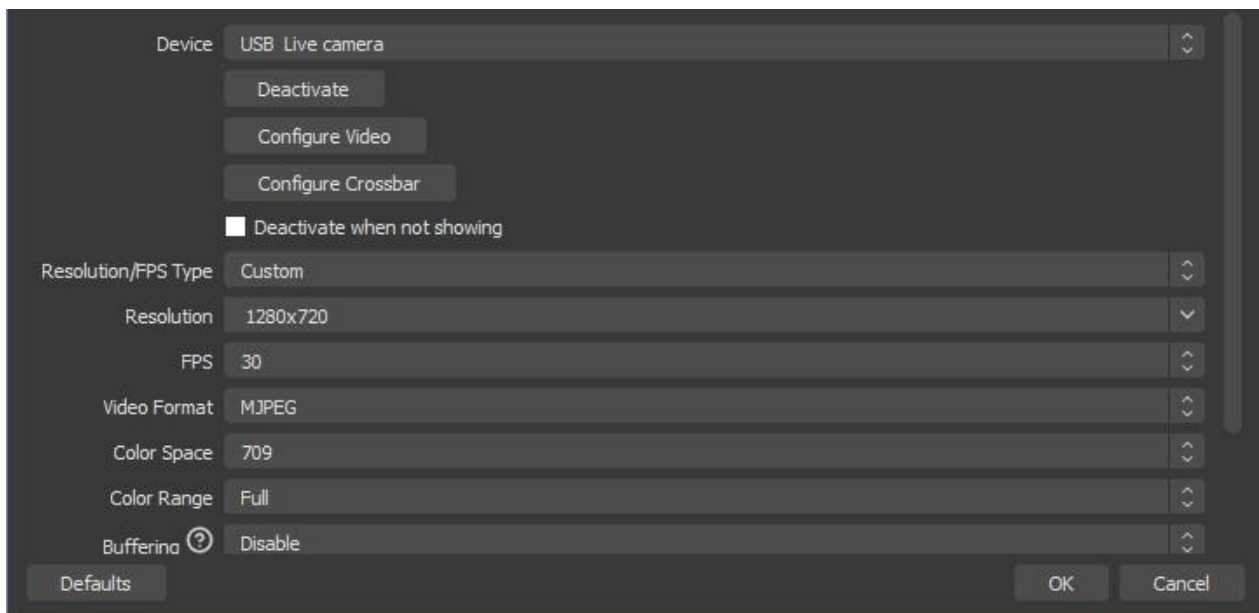
- With “Webcam Record” selected in the Scene’s box, click the plus icon in the Sources box
 - Select **“Video Capture Device”**



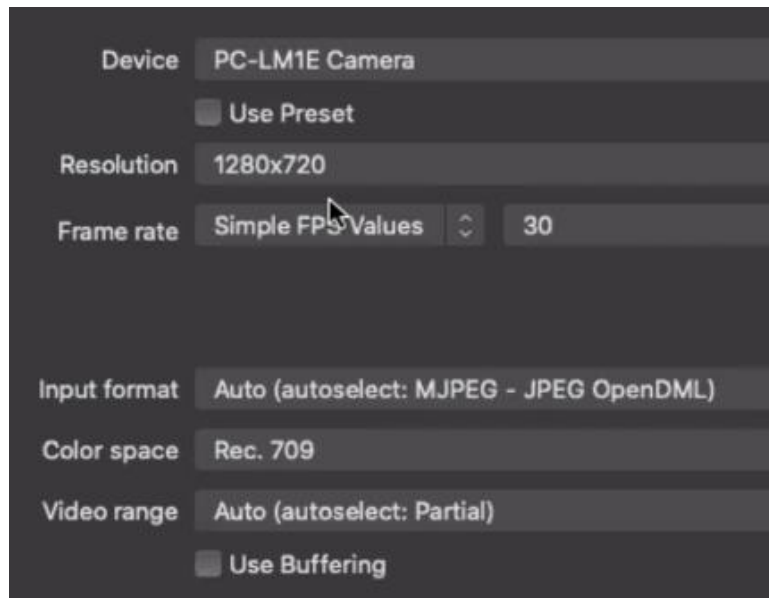
- In the Create/Select Source box that appears
 - Choose **“Create”**
 - Name the source **“Webcam”**



- **Ignore** any webcam warnings that may pop up
- By “Device”, select the external webcam (ex. "PC-LM1E Camera")
 - Do **not** select built-in laptop webcam
- Change settings:
 - **Resolution/FPS Type = “Custom”**
 - **Resolution = “1280x720”**
 - **FPS = “30”**
 - **Format = “MJPEG”**
 - **Color Space = “709”**
 - **Color Range = “Full”**



- PC-LM1E Camera specific settings, if different from above:



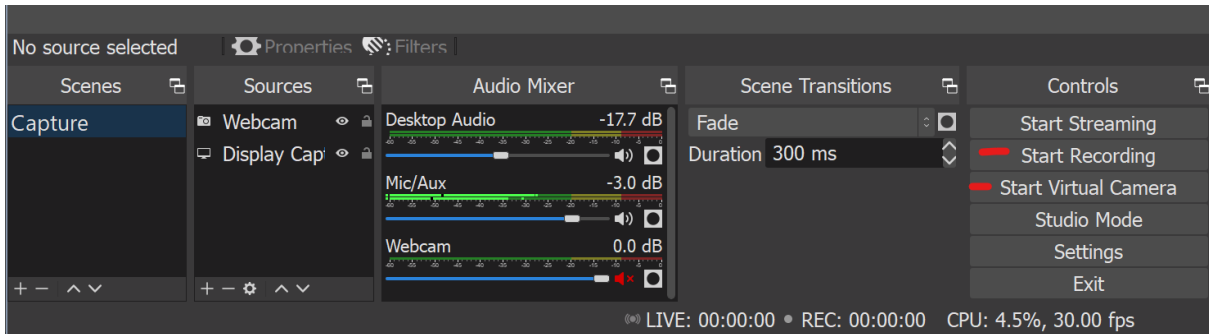
- Set Audio Levels – With the “Webcam” source selected, adjust audio levels:
 - **Desktop Audio** = Move the slider down to about half or roughly **-17dB**.
 - **Mic/Aux** = While speaking into the external microphone at a normal to moderately loud volume, adjust the volume slider for so the bouncing bars barely touch the yellow range.
 - **Audio should never touch the red range (-10+)**
 - **Other Audio** = Any other available audio sources should be **disabled**. Do so by clicking the speaker icon on the right side of each source. When disabled, the speaker will turn **red with an “x”**



7. Close and Re-Open OBS

8. Record Video

- Windows Users click **“Start Virtual Camera”**
- Select **“Webcam Record”** Scene
- Click **“Start Recording”**

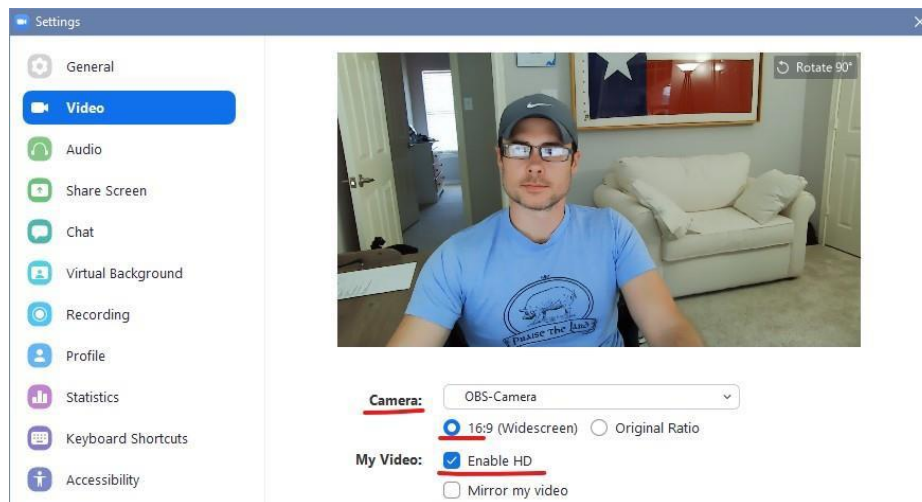


- When finished, click **“Stop Recording”** and then **“Yes”** to confirm you want to stop.
- The file will be saved to the **Desktop** or other location previously chosen in **Settings**.

Zoom Setup

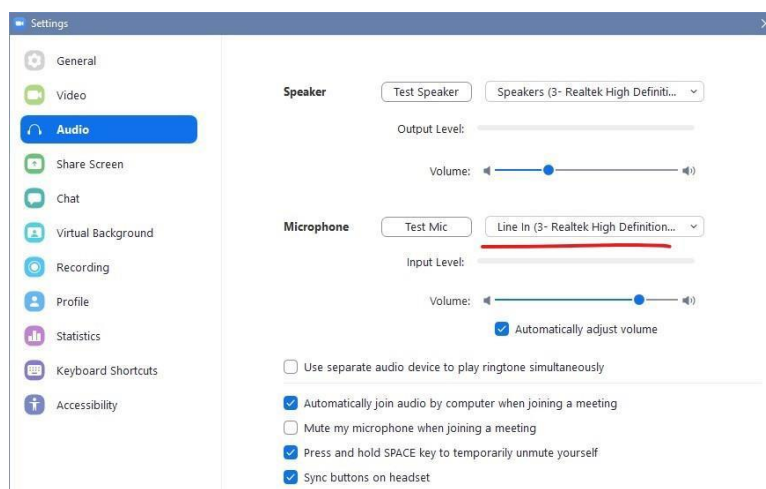
1. Open Zoom and Change Zoom Video Settings

- **Camera**
 - Windows Users: **"OBS-Camera"**
 - Mac Users: **External Webcam** (ex. "PC-LM1E Camera")
- Check **"16:9 (Widescreen)"**
- Check **"Enable HD"**

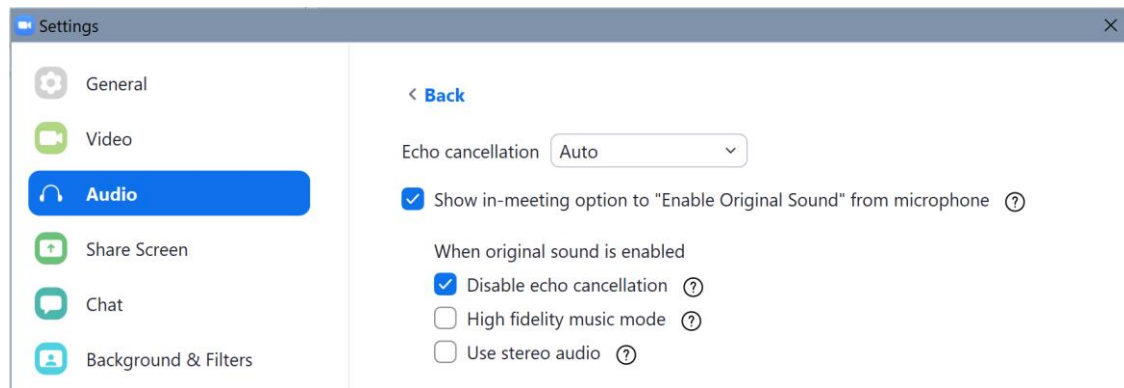


2. Change Zoom Audio Settings

- **Speaker**
 - Move slide down so that you can still hear audio from your speakers, but keep it from being too loud.
- **Microphone**
 - Change microphone to **Line In / External / etc.**
 - Should be the same external microphone from OBS setup
 - "Automatically adjust volume" is fine



- At the bottom of the Audio Settings page, click **“Advanced”** and on the page that opens, match the settings below.



- Close out of Zoom settings

Need Help?

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