

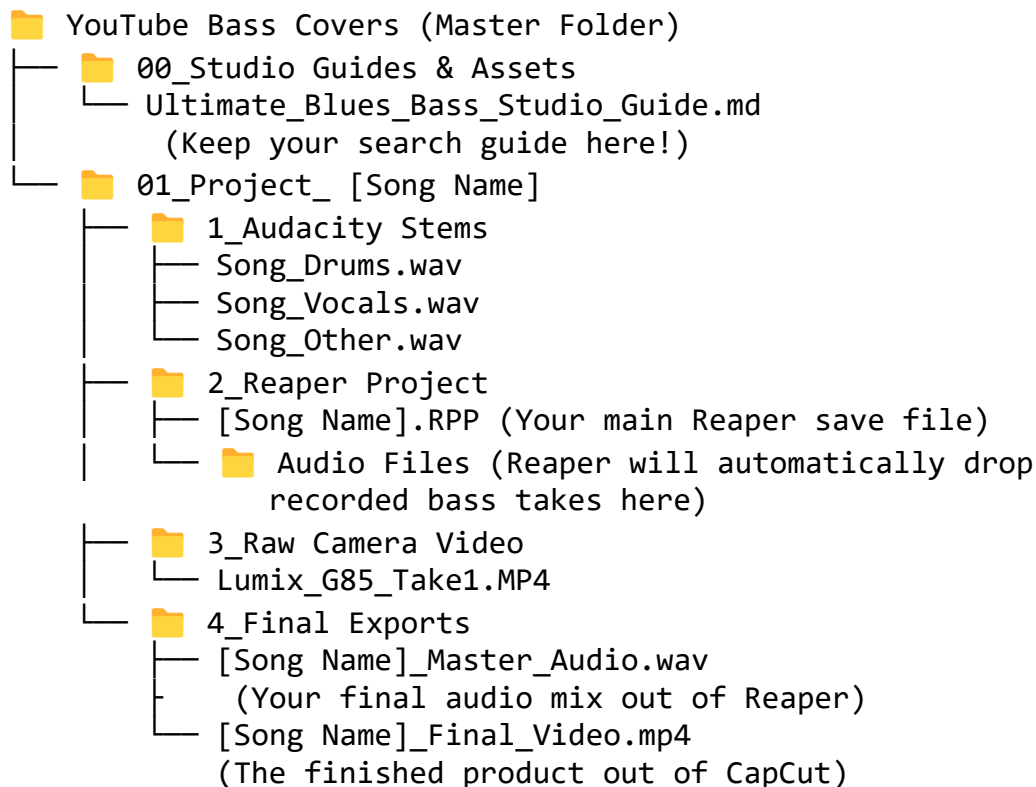
A Bass Cover Recording Log

Creation Process on a Budget

Created by Bukbass

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1. Downloaded and installed Audacity 4.xx
2. Downloaded and installed Openvino V2026.4
3. Discovered Openvino is not compatible with Audacity 4. Estimated compatible update release - end of 2026.
4. Uninstalled Audacity 4 - downloaded and installed Audacity V3.79
5. Stem separation Audacity plugin - Openvino V2026.4 installed and was recognized by Audacity v3.79
6. To open MP4 files FFmpeg library needed to be installed. Audacity recognized the library once installed.
7. At this point I recommend considering setting up a directory structure to organize the files that will be generated. Here is what I used.



8. Stem separation successful in audacity. Stems are explicitly identified so it's not necessary to mute but it's good to test the stem separation by muting each stem.
9. Save the audacity project
10. X the bass stem and save as a new name the audacity project
11. Export the file to WAV (Microsoft), 48000 hz (to be consistent with Behringer UMC202HD driver freq), 24bit PCM, multiple files based on tracks.
12. Plug Behringer UMC202 HD in to usb on laptop
13. Open Reaper. Drag multiple stems to Reaper (exluding bass) and indicate they all need to start at the same time on separate tracks
14. Play this file over and over again to practice, practice, practice. Audacity can also be used to practice but not record.

Hardware Setup

- HP Envy 17m-ae111dx With an Intel Core i7-8550U processor, 16GB of RAM, 2TB SSD, Windows 11. (To reduce potential resource issues, I disconnected from the internet, stopped my malware software and closed every program not relevant to recording.)
- Reasonable quality headphones – did not break the bank. Plugged into UMC202HD (bass heard in one side in phones) or laptop (mono heard in both sides)
- Lumix G85 camera with fisheye lens (limited studio space).
- G85 video settings:

Sync sound spike test

I've read and heard lots about the sync spike (clap or clapper board, etc). I did not quite understand why it was such a big deal until I realized 2 separate files would need to be synced in CapCut (Using free version).

1. The Reaper wav file
2. The MP4 file from the G85

I believe there are many applications that do this automatically, but for now I'm going with physical noise spike just to keep the learning curve less steep.

Since the phones won't hear a clap and my G85 mic will, I chose to use the E string. Lifting with my thumb and letting it slap down on the pickups so the sound would be sufficient to record on the Reaper PC and picked up by the G85 mic. Works pretty well.

I first added 15 seconds of silence before the track in Reaper to allow me time to start the G85 recording, sit down, strap up my TRBX304, and lift the E string.

G85 SETTINGS

Mic level: -12db unless spike isn't clear enough then increase to upto -6db. letting the mic hit closer to -6 dB will make the transient spike taller on your video track. Just make sure it doesn't slam into 0 dB

Mic Level Limiter: On - Crucial for the pluck: The built-in hardware limiter acts like an automatic safety net. When snapping the heavy E-string, it will prevent the sudden burst of air from digitally clipping or distorting the camera's internal preamp.

Wind Noise Canceller: Off - Wind cut filters aggressively chop out low-end bass frequencies to stop wind noise. Since heavily plucking an E string, I want the camera to capture the deep low-frequency thump.

CapCut is a different animal. Some infrequent popups to upgrade. The free version is quite capable for what I'm doing. CapCut interface is not intuitive (It may be for anyone familiar with video editors but I haven't used one for 30 years) I recommend using your favorite AI agent to help with the CapCut functionality.

It took a while for me to figure out why the CapCut window was being reduced before I gave up and worked with it in about a ⅓ full screen. I believe it was trying to preserve my PC resources to stop crashing. It did crash at full screen but not at ⅓ screen.

The vertical size of the tracks are small (maybe that's a user issue) but I found that it was easy to expand both the audio and video tracks to magnify the sync spike. The E string pluck needs to be very abrupt. The bass signal was a little extended but I found that aligning each track with the left most part of the spike worked great.

Everything went well. Very satisfied with the AV output. Just a C+ on the performance which is not ready to publish yet.

I uploaded to YouTube. While the copyright check in CapCut cleared it, YouTube indicated it was under review.

“This video has a potential limitation -Claimed content was found in this video. This doesn’t affect the video right now, but if you start earning from YouTube, it can have an impact on your earnings.”

So far so good. Lots of file cleanup and backup needed. Fortunately I have two 4TB usb drives.

The Reaper render and Capcut export options are pasted below.
(Gemini recommendations for YouTube quality)

The final AV cover is 3min 43 sec 313MB

All unpaid applications except \$60 for Reaper.

