

Please follow the steps below to use the disc drive. **If it doesn't work, you can check the troubleshooting guide or contact us for technical support.** If the device is defective, we will arrange a new device for you for free (arrive within 2–4 days) or a full refund.

Troubleshooting Guide: [Click here](#)

How to contact us?

Method 1: Visit Amazon seller page ([click here](#)) -- click "Ask a question" button

Method 2: Send email to support@roofull.com

Please tell us this information when you contact us:

1. Your computer system (Windows or Mac or Linux?)
2. Does the computer recognize the CD/DVD drive?

* Due to time difference, we strive to reply to you within 6 hours

Disc Drive Installation and Usage Steps

Step 1. If you need to play music CDs, watch video DVDs, or burn/rip CDs and DVDs, please make sure your computer has the corresponding software. We recommend some software for you as below (click the software name to download - Apple Music or iTune is built-in app, no need to download):

Play Audio/Music CD	Apple Music (macOS 10.15 & later)	iTunes (macOS 10.14 & older)	VLC Player ↓	
Play Video/Movie DVD	VLC Player ↓		IINA ↓	MPV Player ↓
Burn Audio CD	Burn ↓	Apple Music (macOS 10.15 & later)	iTunes (macOS 10.14 & older)	
Burn Video DVD	Burn ↓		DVDStyler ↓	
Rip/Import Audio CD	Apple Music (macOS 10.15 & later)	iTunes (macOS 10.14 & older)	XLD ↓	Fre:ac ↓
Rip Video DVD	HandBrake (macOS version) ↓		MakeMKV (macOS version) ↓	

Step 2. Open **Finder > Settings** (or **Preferences**, depending on your macOS version) > Ensure "**CDs, DVDs, and iOS Devices**" is checked in **General Tab** and **Sidebar Tab** if available.

Step 3. For **MacBook Pro** and **MacBook Air**, please connect to an external power source to ensure stable power supply.

Step 4. It's better to plug the data cable into your Mac computer's USB port **directly** instead of a USB hub (unless it's a **self-powered hub**).

** Note: For some models, the data cable is located under the device.*

Step 5. Connect the separate power supply cord to a USB power adapter or power bank to ensure sufficient power supply.

** If the drive model you purchased does not have a separate power cable, please ignore this step.*

** If the optical drive works fine with a single data cable, you can remove the power supply cable.*

Step 6. Fasten your CDs or DVDS on rotating shaft in the middle of the tray with slight pressure, and then close the tray. Wait a few seconds, you should see a drive icon on the desktop.

* macOS cannot detect this drive **unless there is a disc in it.**

* If macOS does not recognize the disc, please try these first:

1. Ensure you are connecting is the **data cable** instead of the power cable.
2. Try using a different USB port on your MAC.
3. Test with a different disc.

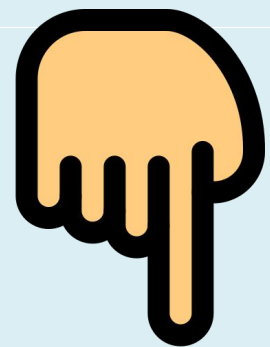
Step 7. If your Mac successfully recognizes the disc and drives it, you can **follow the steps below to play, burn, or rip the disc.** After the playback stops, to eject a disc, please **right-click on the icon** on the desktop and select **"eject"**, or choose **"File" > "Eject"** button. Due to macOS limitations, the tray cannot be opened via the button after playing or burning a disc.

If your Mac doesn't display the drive icon, how to get the disc out?

1. Use a **toothpick** or **paperclip** to press the **force-eject button** in the **hole on the front panel** to open the tray and retrieve your disc.
2. Try unplugging and reconnecting it. Then, quickly press the button on the front panel several times to open the tray.

Step 8. Scroll down to view **further steps** below, including:

- * Play Audio CDs with Apple Music (Built-In - for 10.15 and later macOS)
- * Play Audio CDs with iTunes (Built-In - for 10.14 and earlier macOS)
- * Play Audio CDs with VideoLAN VLC Player
- * Play Video or Movie DVDs with VideoLAN VLC Player
- * Play Video or Movie DVDs with IINA
- * Play Video or Movie DVDs with MPV Player
- * Burn Audio CDs with Burn App
- * Burn Audio CDs with Built-in Apple Music (for 10.15 & later macOS)
- * Burn Audio CDs with Built-in iTunes (for 10.14 & old macOS)
- * Burn Video DVDs with Burn App
- * Burn Video DVDs with DVDStyler
- * Rip(Import) Audio CDs with Apple Music (for 10.15 & later macOS)
- * Rip (Import) Audio CDs with Built-in iTunes (for 10.14 & old macOS)
- * Rip (Import) Audio CDs with XLD
- * Rip (Import) Audio CDs with Fre:ac
- * Rip Video DVDs with HandBrake
- * Rip Video DVDs with MakeMKV



Play Audio CDs with Apple Music (Built-In - for 10.15 and later macOS)

Step 1. Insert the Audio CD into your ROOFULL external CD/DVD drive.

Step 2. Open Apple Music:

If **Apple Music** doesn't open automatically, go to the **Applications** folder or use **Spotlight** to search for and open it.

Step 3. Locate the CD in Apple Music:

In the **Apple Music** sidebar, you should see your CD listed under **Devices** on the left side. If not, you may need to wait a few seconds for it to appear.

Step 4. Play the CD:

Click on the **CD name** to view its tracklist.

To start playing, simply click on any track you want to listen to. It will begin playing automatically.

Step 4. Eject the CD:

Once you're finished, you can either drag the CD icon to the trash (which will eject it) or right-click the **CD icon** on the **desktop** and choose **Eject**.

Additional Tips: By default, Apple Music may prompt you to play the CD automatically once inserted. If it doesn't, simply open the program and click on the CD icon.

Play Audio CDs with iTunes (Built-In - for 10.14 and earlier macOS)

Step 1. Insert the Audio CD into your ROOFULL external CD/DVD drive.

Step 2. Open iTunes:

If **iTunes** doesn't open automatically, go to the **Applications** folder or use **Spotlight** to search for and open it.

Step 3. Locate the CD in iTunes:

In the **iTunes** window, you should see the CD appear in the **Devices** section on the left sidebar.

Step 4. Play the CD:

Click on the **CD icon** in iTunes to view the tracklist.

Select the tracks you want to play and click on them to start playing.

Step 5. Eject the CD:

Once done, right-click the **CD icon** on the **desktop** and select **Eject**.

Alternatively, you can click the eject button next to the CD icon in iTunes.

Additional Tips: By default, iTunes may prompt you to play the CD automatically once inserted. If it doesn't, simply open the program and click on the CD icon.

Play Audio CDs with VideoLAN VLC Player

Step 1: Install VLC Media Player

1. Download VLC from the official website: <https://www.videolan.org/vlc/>.

2. Open the downloaded file and drag the **VLC icon** into the **Applications** folder.
3. Launch VLC from the **Applications** folder or use **Spotlight** to find it.

Step 2: Insert the Audio CD

1. Insert your **audio CD** into ROOFULL external CD/DVD drive.
2. Wait a few moments for the CD to be recognized.

Step 3: Open VLC and Play the Audio CD

1. Launch **VLC**.
2. Go to **File** in the menu bar, then select **Open Disc** (or press **Cmd + D**).
3. In the **Open Media** dialog, select the **Disc** tab.
4. Ensure the **Audio CD** option is selected and the correct **Drive** is chosen.
5. Click **Play** to start playing the audio CD.

Step 4: Control Playback

1. Use the standard **VLC controls** to play, pause, stop, or skip tracks.
2. To skip to a specific track, click the **Track List** in VLC and choose the track you want.

Step 5: Eject the CD

1. Right-click the **CD icon** on the desktop and select **Eject**.
2. Alternatively, click **File** in the VLC menu and choose **Eject**.

Play Video or Movie DVDs with VideoLAN VLC Player

Step 1: Install VLC Media Player (if not already installed)

1. **Download VLC** from the official website: <https://www.videolan.org/vlc/>.
2. Open the downloaded file and drag the **VLC icon** into the Applications folder to install it.
3. Open **VLC** from the **Applications** folder or use **Spotlight** to search for it.

Step 2: Insert the DVD

1. Insert the **DVD** into ROOFULL external CD/DVD drive.
2. Wait a few moments for the DVD to be recognized by macOS.

Step 3: Open VLC and Play the DVD

1. **Launch VLC**.
2. In the **VLC menu** bar, go to **File > Open Disc** (or press **Cmd + D**).
3. In the **Open Media** dialog, select the **Disc** tab.
4. Make sure the **DVD** option is selected under **Disc Selection**.
5. Choose the correct **Drive** if you have multiple drives.
6. Click **Play** to start playing the DVD.

Step 4: Control Playback

1. Use the **VLC controls** (Play, Pause, Stop, Skip, Volume) to manage the playback of the DVD.
2. You can use the **menu** to navigate through chapters, audio tracks, or subtitles if available on the DVD.

Step 5: Eject the DVD

1. To eject the DVD when you're finished, right-click the **DVD icon** on the **desktop** and select **Eject**.

2. Alternatively, you can click **File** in the VLC menu and select **Eject**.

Troubleshooting:

- * If VLC doesn't automatically detect the DVD, ensure the **DVD drive** is properly connected to the Mac.
 - * Make sure VLC is up-to-date for better compatibility with DVD formats.
 - * If the DVD has copy protection or is region-locked, you might encounter issues with playback.
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Play Video or Movie DVDs with IINA

Step 1: Install IINA Media Player

1. Download **IINA** from the official website: <https://iina.io/>.
2. Open the downloaded file and drag the **IINA icon** into the **Applications** folder to install it.
3. Open **IINA** from the **Applications** folder or use **Spotlight** to search for it.

Step 2: Insert the DVD

1. Insert the **DVD** into your ROOFULL external CD/DVD drive.
2. Wait a few moments for macOS to recognize the DVD.

Step 3: Open IINA and Play the DVD

1. Launch **IINA**.
2. In the **IINA menu bar**, go to **File > Open Disc** (or use the shortcut **Cmd + D**).
3. In the **Open Disc** dialog, select the **DVD** option.
4. Make sure the correct **Drive** is selected if you have multiple drives.
5. Click **Open** to start playing the DVD.

Step 4: Control Playback

1. Use the standard **IINA controls** (Play, Pause, Stop, Skip, Volume) to manage playback.
2. Navigate through chapters, subtitles, and audio tracks (if available) using the **Chapter**, **Audio**, and **Subtitle** menus in IINA.

Step 5: Eject the DVD

1. Once finished, right-click on the **DVD icon** on the **desktop** and select **Eject**.
 2. Alternatively, you can click **File** in the IINA menu and select **Eject**.
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Play Video or Movie DVDs with MPV Player

Step 1. Install MPV Player

1. Download **MPV** from the official website: <https://mpv.io/>.
2. Open the downloaded file and drag the **MPV icon** into the **Applications** folder to install it.
3. Open **MPV** from the **Applications** folder or use **Spotlight** to search for it.

Step 2. Insert the DVD

1. Insert the **DVD** into your ROOFULL external CD/DVD drive.
2. Wait for macOS to recognize the DVD.

Step 3. Open MPV and Play the DVD

1. Launch **MPV**.
2. To play the DVD, you can either:
3. **Drag and drop** the DVD icon from the desktop into the **MPV window**.

Step 4. Control Playback

1. Use the standard **MPV controls** (Play, Pause, Stop, Skip, Volume) to manage playback.
2. MPV supports **keyboard shortcuts** for navigation and controlling playback (e.g., arrow keys for seeking, spacebar to pause/play).

Step 5. Eject the DVD

1. Right-click the **DVD icon** on the **desktop** and select **Eject**.
 2. Alternatively, you can eject the DVD through **MPV's menu** or close the program.
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Burn Audio CDs with Burn App

Step 1: Download and Install Burn

1. Download Burn from its official website: <https://burn-osx.sourceforge.io/>
2. Open the downloaded **.dmg** file and drag the Burn app to your **Applications** folder.

Step 2: Launch Burn

1. Open the **Burn** application.
2. Click the **Audio** tab at the top.

Step 3: Create an Audio CD

1. In the **Audio** tab, ensure the "**Audio CD**" option is selected (this ensures compatibility with most CD players).
2. Drag and drop your audio files into the Burn window.
 - Burn supports **MP3, AAC, WAV, AIFF, and FLAC** formats.
 - If needed, Burn will convert the files to the correct format automatically.
3. Rename the disc by clicking on the text field at the top.

Step 4: Insert a Blank CD

1. Insert a **blank CD-R** into your ROOFULL external CD/DVD drive.

Step 5: Burn the CD

1. Click the **Burn** button.
2. Choose the **burning speed** (slower speeds like **8x** or **16x** can improve compatibility).
3. Click **Burn** again to start the process.
4. Wait for the burning process to complete.

Step 6: Eject and Test

1. Once the process is finished, Burn will eject the CD.
 2. Insert it into a CD player or another computer to test if it plays correctly.
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Burn Audio CDs with Built-in Apple Music (for 10.15 & later macOS)

Step 1: Create a Playlist

1. Open **Apple Music** on your Mac.
2. Click **File > New > Playlist** (or press **Command + N**).
3. Rename the playlist (e.g., "My Audio CD").
4. Drag and drop the songs you want to burn into the playlist.
 - Ensure all songs are **downloaded** and in a **CD-compatible format (MP3, AAC, AIFF, WAV)**.

Step 2: Arrange Songs

1. Click and drag songs to set the playback order.
2. Make sure the total duration does not exceed **80 minutes** (standard CD limit).

Step 3: Insert a Blank CD

1. Insert a **blank CD-R** into your ROOFULL external CD/DVD drive.

Step 4: Start Burning

1. Select the playlist you created.
2. Click **File > Burn Playlist to Disc**.
3. In the pop-up window, choose:
 - **Disc Format**: Select **Audio CD** (for standard CD players).
 - **Burn Speed**: Choose a slower speed (**8x** or **16x**) for better compatibility.
 - **Gap Between Songs**: Choose **None** for continuous playback.
4. Click **Burn** to start the process.

Step 5: Wait and Test

1. The burning process may take a few minutes.
2. Once done, Apple Music will eject the CD automatically. If not, right-click the desktop icon and select "Eject," or go to "File" > "Eject" from the menu.
3. Insert the CD into a CD player or another computer to test playback.

Important Notes:

Apple Music streaming songs (DRM-protected) cannot be burned to a CD. Only purchased or imported songs in compatible formats can be used.

Burn Audio CDs with Built-in iTunes (for 10.14 & old macOS)

Step 1: Create a Playlist

1. Open **iTunes** on your Mac.
2. Click **File > New Playlist** (or press **Command + N**).
3. Rename the playlist (e.g., "My Audio CD").
4. Drag and drop the songs you want to burn into the playlist.
 - Ensure all songs are **downloaded** and in a **CD-compatible format (MP3, AAC, AIFF, WAV)**.

Step 2: Arrange Songs

1. Click and drag songs to set the playback order.
2. Ensure the total duration **does not exceed 80 minutes** (standard CD limit).

Step 3: Insert a Blank CD

1. Insert a **blank CD-R** into your ROOFULL external CD/DVD drive.

Step 4: Start Burning

1. Select the playlist you created.
2. Click **File > Burn Playlist to Disc**.
3. In the pop-up window, choose:
 - **Disc Format**: Select **Audio CD** (for standard CD players).
 - **Burn Speed**: Choose a slower speed (**8x** or **16x**) for better compatibility.
 - **Gap Between Songs**: Choose **None** for continuous playback.
4. Click **Burn** to start the process.

Step 5: Wait and Test

1. The burning process may take a few minutes.
2. Once done, iTunes will eject the CD automatically.
3. Insert the CD into a CD player or another computer to test playback.

Important Notes:

1. iTunes Store purchases with DRM (before 2009) cannot be burned. You need to convert them to DRM-free versions.
 2. Apple Music streaming songs (DRM-protected) cannot be burned.
-

Burn Video DVDs with Burn App

Step 1: Download and Install Burn

1. Download **Burn** from its official website: <https://burn-osx.sourceforge.io/>
2. Open the downloaded **.dmg** file and drag the **Burn** app into the **Applications** folder.

Step 2: Open Burn and Select the Video Tab

1. Launch the **Burn** application.
2. Click the **Video** tab at the top.
3. In the format dropdown menu, choose **DVD-Video**.

Step 3: Add Video Files

1. Drag and drop your **video files** into the Burn window.
 - Burn supports various formats (**MP4, MOV, AVI, MKV**), but it will need to convert them to the correct DVD format.
2. If prompted, click **Convert** to change the file format to **MPEG-2** (standard DVD format).
 - You may need to install **ffmpeg** if you haven't already (Burn will prompt you).

Step 4: Insert a Blank DVD

1. Insert a **blank DVD-R** or **DVD+R** into your external DVD drive.
2. Ensure the total video size does not exceed the DVD capacity:

- 4.7GB for a standard DVD (Single-layer)

- 8.5GB for a Dual-layer DVD

Step 5: Start Burning

1. Click the **Burn** button at the bottom.
2. Choose the burning speed (**4x or 8x is recommended** for better compatibility).
3. Click **Burn** again to begin the process.
4. Wait for the burning process to complete (it may take some time depending on video length and conversion).

Step 6: Test Your DVD

1. Once done, Burn will eject the DVD automatically.
2. Insert it into a **DVD player or computer** to check if it plays correctly.

Important Notes:

1. Burn requires video files to be converted into DVD format (MPEG-2). The app will handle this, but conversion takes time.
2. If Burn asks to install missing tools (like ffmpeg), allow it.
3. Use DVD-R for better compatibility with DVD players.

Burn Video DVDs with DVDStyler



Step 1: Download and Install DVDStyler

1. Download DVDStyler from its official website: <https://www.dvdstyler.org/en/>
2. Open the downloaded **.dmg** file and drag **DVDStyler** into your **Applications** folder.

Step 2: Launch DVDStyler and Create a New Project

1. Open **DVDStyler** from your Applications folder.
2. Click **Create a New Project** and configure:
 - **Disc capacity:** Select **4.7 GB (Single-layer)** or **8.5 GB (Dual-layer)**.
 - **Video format:** Choose **NTSC** (for North America, Japan) or **PAL** (for Europe, China).
 - **Aspect ratio:** Choose **16:9** (widescreen) or **4:3** (standard).
 - Click **OK** to proceed.

Step 3: Design Your DVD Menu (Optional)

1. Select a **menu template**, or choose **No Menu** if you don't need one.
2. Customize the menu by adding text, buttons, and backgrounds.

Step 4: Add Video Files

1. Drag and drop **video files** into the DVDStyler project window.
 - Supported formats: **MP4, AVI, MOV, MKV, MPEG**, etc.
2. Arrange the files in the order you want them to play.

Step 5: Insert a Blank DVD

1. Insert a **blank DVD-R** or **DVD+R** into your external DVD drive.
2. Ensure the total file size does not exceed the DVD capacity (**4.7GB for single-layer, 8.5GB for dual-layer**).

Step 6: Burn the DVD

1. Click the **Burn DVD** button (red disc icon).
2. Choose **Burn to Disc** and select your DVD drive.
3. Set **Burn Speed** (4x or 8x is recommended for better compatibility).
4. Click **Start** to begin the burning process.
5. Wait for the process to complete (this may take time depending on the file size).

Step 7: Test Your DVD

1. Once the burning process is complete, DVDStyler will eject the DVD.
2. Insert the DVD into a **DVD player or computer** to check if it plays correctly.

Important Notes:

1. DVDStyler converts videos into DVD format (MPEG-2). This process takes time.
 2. If prompted to install additional codecs, allow it.
 3. Use DVD-R for better compatibility with DVD players.
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Rip(Import) Audio CDs with Apple Music (for 10.15 & later macOS)

Step 1: Insert the Audio CD

1. Insert the **audio CD** into your ROOFULL external CD/DVD drive.
2. Apple Music should automatically open and display the CD contents.
 - If it doesn't, open **Apple Music**, then click on the **CD icon** in the sidebar.

Step 2: Choose Import Settings

1. Click **Music > Settings** (or press **Command + ,**).
2. Go to the **Files** tab and click **Import Settings**.
3. Choose an **import format**:
 - **AAC Encoder** (Apple's default, good quality, smaller file size)
 - **MP3 Encoder** (widely compatible)
 - **Apple Lossless** (high-quality, larger files)
 - **AIFF or WAV** (uncompressed, very large files)
4. Click **OK** to save the settings.

Step 3: Import the CD

1. Click the **Import CD** button at the top right.
2. Choose your preferred **import quality** (higher bitrates offer better sound quality but larger file sizes).
3. Click **OK** to start ripping the CD.

Step 4: Wait for the Import to Complete

- Apple Music will rip each track and add it to your **Library**.
- If you're online, it will automatically fetch **album artwork and song metadata**.

Step 5: Eject and Access Your Music

1. Once the import is complete, click the **Eject** button next to the CD icon.
2. Find the imported songs in your **Music Library** under **Recently Added** or search for them by name.

Important Notes:

1. DRM-protected CDs may not rip properly.
 2. Apple Music streaming songs cannot be downloaded this way. This only works for physical CDs.
 3. For best quality, use Apple Lossless (ALAC) instead of MP3/AAC.
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Rip (Import) Audio CDs with Built-in iTunes (for 10.14 & old macOS)

Step 1: Insert the Audio CD

1. Insert the **audio CD** into your ROOFULL external CD/DVD drive.
2. iTunes should automatically detect the CD and display its track list.
 - If it doesn't open automatically, launch **iTunes**, then click on the **CD icon** in the left sidebar.

Step 2: Choose Import Settings

1. In iTunes, click **iTunes > Preferences** (or press **Command + ,**).
2. Go to the **General** tab and click **Import Settings**.
3. Choose your preferred **import format**:
 - **AAC Encoder** (default Apple format, good balance of quality and file size)
 - **MP3 Encoder** (widely compatible format)
 - **Apple Lossless Encoder (ALAC)** (high-quality, larger files)
 - **AIFF or WAV** (uncompressed, very large files)
4. Adjust the **bitrate/quality settings** if needed.
5. Click **OK** to save the settings.

Step 3: Start Importing the CD

1. Click the **Import CD** button at the top right.
2. Select the desired **import quality** (higher bitrates offer better sound quality but larger file sizes).
3. Click **OK** to start ripping the CD.

Step 4: Wait for the Import to Complete

1. iTunes will rip each track and automatically add it to your **Library**.
2. If you're connected to the internet, iTunes will try to fetch **album artwork and song metadata**.

Step 5: Eject and Access Your Music

1. Once the import is complete, click the **Eject** button next to the CD icon.
2. Find the imported songs in your **iTunes Library** under **Recently Added** or search by song/album name.

Important Notes:

1. Some commercial CDs may have DRM protection, preventing ripping.
 2. Older versions of iTunes might not support all metadata fetching features.
 3. For best quality, use Apple Lossless (ALAC) instead of MP3/AAC.
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Rip (Import) Audio CDs with XLD

XLD (X Lossless Decoder) is a powerful tool for ripping audio CDs with high-quality output. Follow these steps to rip (import) audio CDs on your Mac using XLD.

Step 1: Download and Install XLD

1. Download **XLD** from its official site: https://tmkk.undo.jp/xld/index_e.html
2. Open the downloaded **.zip** file and drag XLD into your **Applications** folder.

Step 2: Insert the Audio CD

1. Insert the **audio CD** into your ROOFULL external CD/DVD drive.
2. Launch **XLD**. It should automatically detect the CD and display its track list.

Step 3: Choose Output Format

1. In XLD, go to **XLD > Preferences**.
2. Under the **General** tab, choose an output format:
 - **FLAC** (lossless, widely supported)
 - **Apple Lossless (ALAC)** (best for macOS & iTunes)
 - **WAV or AIFF** (uncompressed, large file size)
 - **MP3** (widely compatible, but lossy)
3. Click **Options** to adjust bitrate or quality settings if needed.

Step 4: Select Metadata & Folder Settings

1. In Preferences, go to the **CDDB** tab and enable **Use CDDB (freedb) to retrieve metadata** to get album details automatically.
2. Under **Output Directory**, choose where you want to save the ripped files.

Step 5: Start Ripping the CD

1. In the main XLD window, select all tracks or choose specific ones.
2. Click **Start** to begin ripping.
3. XLD will extract audio with **bit-perfect quality**, depending on your settings.

Step 6: Verify and Access Your Files

1. Once ripping is complete, check the output folder for your audio files.
2. You can now add them to **Apple Music, iTunes, or any other music player**.

Important Notes:

1. XLD supports bit-perfect audio extraction, making it ideal for audiophiles.
2. If ripping to MP3, consider using a high bitrate (e.g., 320kbps) for better quality.
3. Use FLAC or Apple Lossless (ALAC) for maximum quality and future compatibility.

Rip (Import) Audio CDs with Fre:ac

Fre:ac (free audio converter) is a free and open-source tool for ripping audio CDs. Follow these steps to rip (import) audio CDs on your Mac using **Fre:ac**.

Step 1: Download and Install Fre:ac

1. Download **Fre:ac** from the official website: <https://www.freac.org/>
2. Open the downloaded **.dmg** file and drag **Fre:ac** into your **Applications** folder.

Step 2: Insert the Audio CD

1. Insert the **audio CD** into ROOFULL external CD/DVD drive.
2. Launch **Fre:ac**. It should automatically detect the CD and show the track list.
 - If not, click on the **CD icon** on the left to manually select the CD.

Step 3: Choose Output Format

1. In the main Fre:ac window, click the **Options** button (gear icon) on the bottom left.
2. Under **Encoder**, choose the format you want to rip the audio to, such as:
 - **MP3** (widely compatible, lossy compression)
 - **AAC** (Apple's default, lossy compression)
 - **FLAC** (lossless, high-quality)
 - **WAV or AIFF** (uncompressed, large file size)
3. Choose your preferred **bitrate** and **quality settings**. Higher bitrates provide better audio quality.

Step 4: Select Output Directory

1. Under the **Destination Folder** section, choose where you want the ripped files to be saved.
2. Optionally, enable "**Use CDDB**" to automatically fetch metadata (album name, artist, track titles, etc.) from online databases.

Step 5: Start Ripping the CD

1. Select the tracks you want to rip (or select all).
2. Click the **Start** button (green triangle) to begin the ripping process.
3. Fre:ac will begin extracting the audio from the CD and convert it into the chosen format.

Step 6: Verify and Access Your Files

1. Once the process is complete, go to your **destination folder** to find the ripped audio files.
2. You can now add them to **Apple Music, iTunes**, or any other media player.

Important Notes:

1. Fre:ac supports multiple formats, including lossless formats like FLAC.
2. Make sure you have an active internet connection if you want to fetch album metadata from CDDB.
3. Use FLAC or AAC for better compatibility with modern devices and audio quality.

Rip Video DVDs with HandBrake

Step 1: Install HandBrake and libdvdcss

1. Download and install **HandBrake** from the official site: <https://handbrake.fr>.
2. **(For encrypted DVDs) Install libdvdcss** to bypass basic encryption:
 - Open **Terminal** and run the following command:

```
brew install libdvdcss
```

- If you don't have **Homebrew** installed, install it first:

```
/bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"
```

- **Note: libdvdcss only works for basic encryption.** If the DVD has advanced protection (e.g., Disney movies), you may need **MakeMKV** or other tools.

Step 2: Insert the DVD

1. Insert your video **DVD** into your ROOFULL external DVD drive.
2. If macOS asks to open **DVD Player**, close it.

Step 3: Open HandBrake and Select the DVD

1. Launch HandBrake.
2. In the **Source Selection** window, choose your **DVD drive**.
3. HandBrake will **scan the DVD** to detect available titles. This may take a few minutes.

Step 4: Choose the Title and Preset

1. Under **Title**, choose the **main movie** (usually the longest duration).
2. Select a Preset (e.g., Fast 1080p30 for general use).
 - **Fast 1080p30** (Good balance of quality & speed)
 - **H.265 (HEVC)** (Smaller file size, but not all devices support it)
 - **HQ 1080p30 Surround** (For high-quality output with surround sound)

Step 5: Adjust Output Settings (Optional)

1. **Format: MP4** (widely compatible) or **MKV** (better for subtitles and multiple audio tracks).
2. **Video Codec:**
 - **H.264** (Recommended for compatibility)
 - **H.265 (HEVC)** (Smaller size, requires newer hardware for playback)
2. **Subtitles:**
 - **Burned In** (Always visible, best for foreign-language films)
 - **Soft Subtitles** (Can be turned on/off in video players)
3. **Audio:**
 - Ensure the correct **language track** is selected.
 - If needed, choose **Passthrough** to preserve original surround sound.
4. **Chapters:** Keep if you want chapter selection in your final video.

Step 6: Start the Ripping Process

1. Click **Browse** to choose a destination folder.
2. Click **Start Encode** to begin ripping.
3. The process can take **from minutes to hours**, depending on the DVD and your settings.

Step 7: Verify the Output

1. Open the saved video file and check for:
 - **Correct video playback**
 - **Proper subtitles and audio**
 - **Good quality without excessive file size**
2. If the output isn't as expected, adjust the settings and re-rip.

Step 9: Legal Considerations

- Ripping DVDs may be **illegal** in some regions, even for personal use. Make sure to comply with **local copyright**

Rip Video DVDs with MakeMKV

Step 1: Install MakeMKV

1. Download **MakeMKV** from the official site: <https://www.makemkv.com/download/>
2. Install it like any other Mac application.
3. Open MakeMKV. If prompted for a **beta key**, get the latest one from the MakeMKV forum: <https://www.makemkv.com/forum/>.

Step 2: Insert the DVD and Check Compatibility

1. Insert your **DVD** into your external DVD drive.
2. If macOS opens **DVD Player**, close it.
3. Ensure your DVD drive is properly connected. **External drives may have trouble with certain copy-protected discs.**

Step 3: Open MakeMKV and Select the DVD Source

1. Launch **MakeMKV**.
2. Wait for it to detect your DVD drive.
3. Click the **big disc drive icon** to scan the DVD.
4. The program will list all available **titles (videos)** found on the disc.

Step 4: Choose the Correct Title and Tracks

1. Identify the **main movie title** (usually the longest duration).
2. Expand the title to select:
 - **Audio Tracks**: Choose the preferred language and surround sound format (if needed).
 - **Subtitles**: Select or deselect subtitles as needed.
3. Uncheck **unnecessary titles** (e.g., trailers, bonus features) to save space.

Step 5: Set the Output Folder

1. Click "**Make MKV**" to start the ripping process.
2. The output folder will be displayed at the top. Change it if needed.
3. Click **OK**, and the ripping process will begin.

Step 6: Wait for the Rip to Complete

1. The process can take **15~45 minutes**, depending on the disc size and your Mac's speed.
2. MakeMKV **does not compress** video, so files may be large (5~30GB)

Step 7: Verify the Output and Convert (Optional)

1. Open the **MKV file** using VLC Player or another media player.
2. If the file size is too large, you can use **HandBrake** to compress it:
 - Open **HandBrake**, load the MKV file, and choose an **H.264 or H.265 preset**.
 - This will significantly reduce file size while keeping good quality.

Step 8: Legal Considerations

- **Ripping DVDs may be illegal** in some regions, even for personal use. Check your local copyright laws before

proceeding.

Tips: If you need to **convert MKV files to MP4** for better compatibility after ripping your DVD with MakeMKV, check the further steps below:

Step 9: Install and Open HandBrake

1. **Download HandBrake** from <https://handbrake.fr>.
2. Install and open the application.

Step 10: Load the MKV File into HandBrake

1. Click "**Open Source**" and select the **MKV file** you ripped with MakeMKV.
2. HandBrake will scan the file and display video details.

Step 11: Choose an Output Preset

1. **For general use:** Select **Fast 1080p30** (H.264) for good quality and compatibility.
2. **For smaller file size:** Use **H.265 (HEVC)**, but note that some devices may not support it.
3. **For Apple devices:** Choose **Apple 1080p30 Surround**.
4. **For minimal quality loss:** Choose **HQ 1080p30 Surround**.

Step 12: Adjust Settings (Optional)

- **Format:** Set to **MP4** (default).
- **Video Codec:** H.264 (widely supported) or H.265 (smaller file size).
- **Audio:** Make sure the correct **audio track** is selected.
- **Subtitles:**
 - * **Burned In** if you want them always visible.
 - * **Soft Subtitles** if you want them toggleable.

Step 13: Set Destination Folder

1. Click "**Browse**" and choose where to save the final MP4 file.
2. Rename the file if needed.

Step 14: Start the Conversion

1. Click "**Start Encode**" to begin the conversion.
2. The process may take **a few minutes to an hour**, depending on your settings and Mac's speed.

Step 15: Verify the MP4 File

1. Open the MP4 file with **QuickTime, VLC, or another media player** to check quality.
2. If everything looks good, you can delete the original **MKV file** to save space.
3. Now you have a compatible MP4 file that works on most devices!