

## Generating Cue Sheets with Foobar2000

Foobar2000 can be used to convert multiple music tracks into single wave files with accompanying cue-sheets.

A cue sheet is simply a text file which contains information on the album (title, genre, date...) and the list of the album's tracks. Refer to this page for more details:

[https://en.wikipedia.org/wiki/Cue\\_sheet\\_\(computing\)](https://en.wikipedia.org/wiki/Cue_sheet_(computing))

The UPLPlayer will display these single wave files with the corresponding track details and allow playing them individually (and gaplessly).

The use of single-track wav files have the following limitations:

- A single track cannot be larger than 4 Gigabytes (FAT32 limitation)
- A single track cannot have a duration of more than 9999 seconds (UPL limitation) – which corresponds roughly to 2 hours and 45 minutes

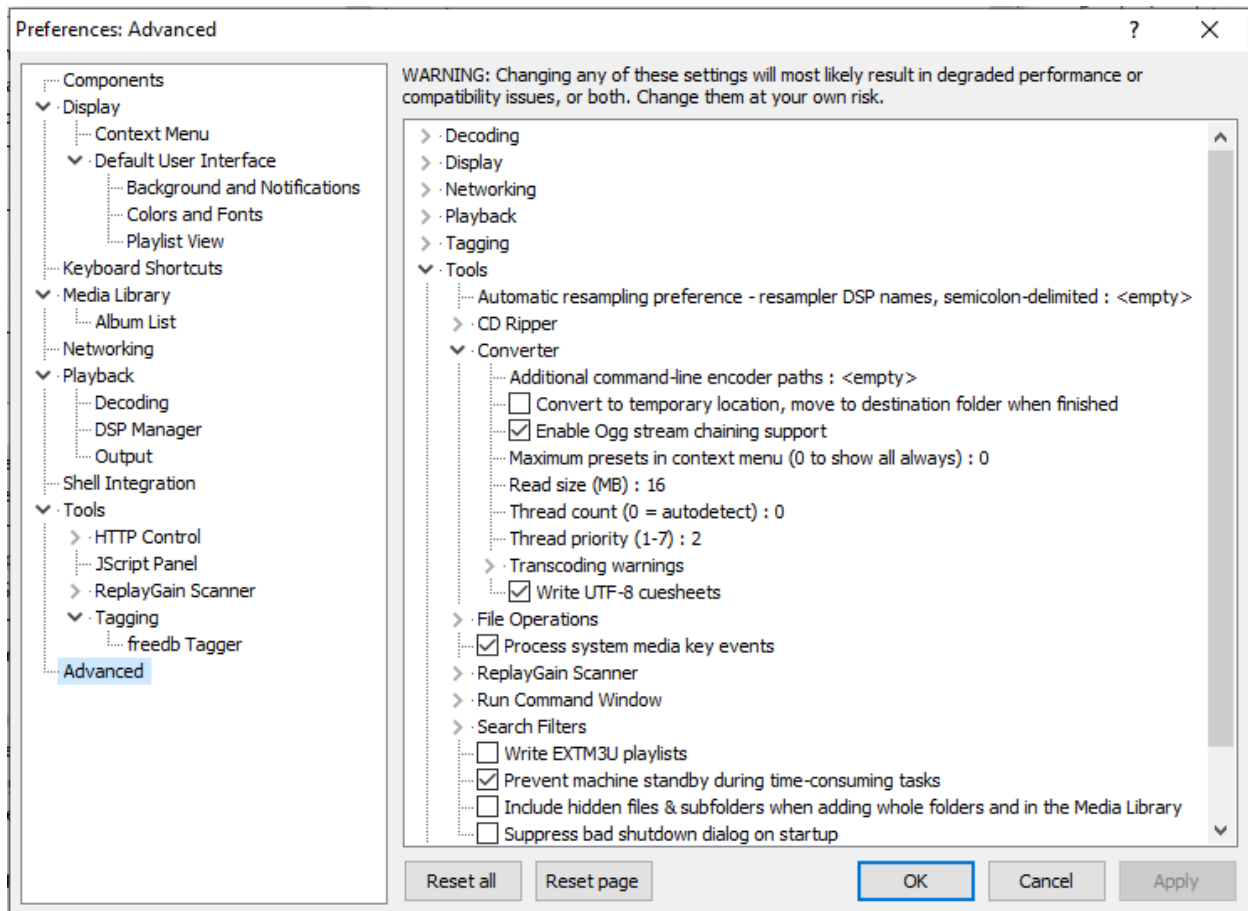
As a result, large multi-disk albums will need to be split into several “cue sheets” and wav files – this can be automated in Foobar2000 based on album tags or folder structure.

Foobar2000 can be downloaded from their web site: <https://www.foobar2000.org/>

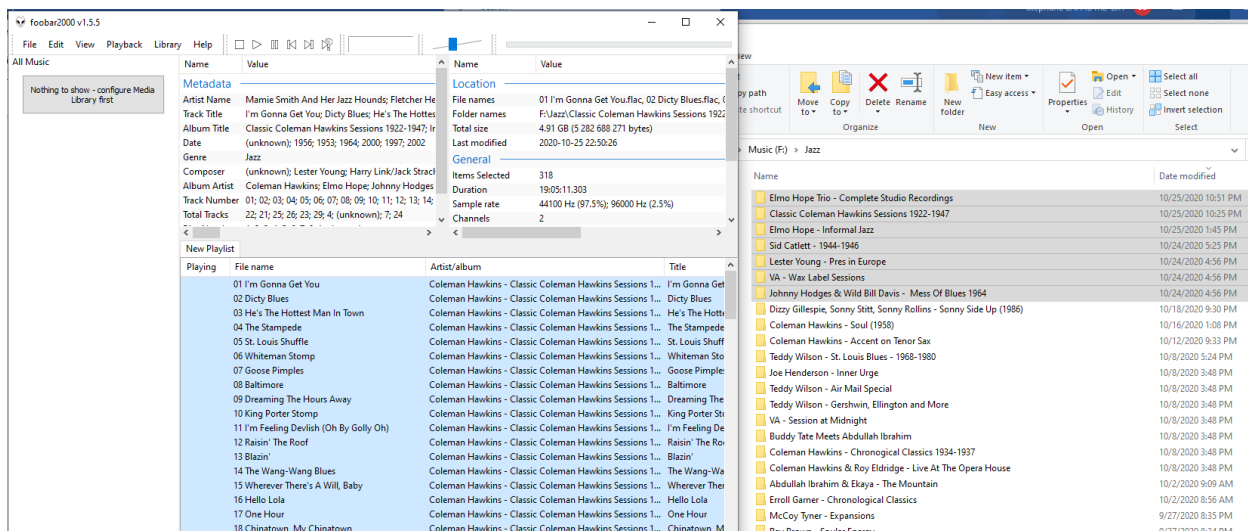
No additional components are needed to convert tracks to wave files and generate cue-sheets.

### **Foobar Settings**

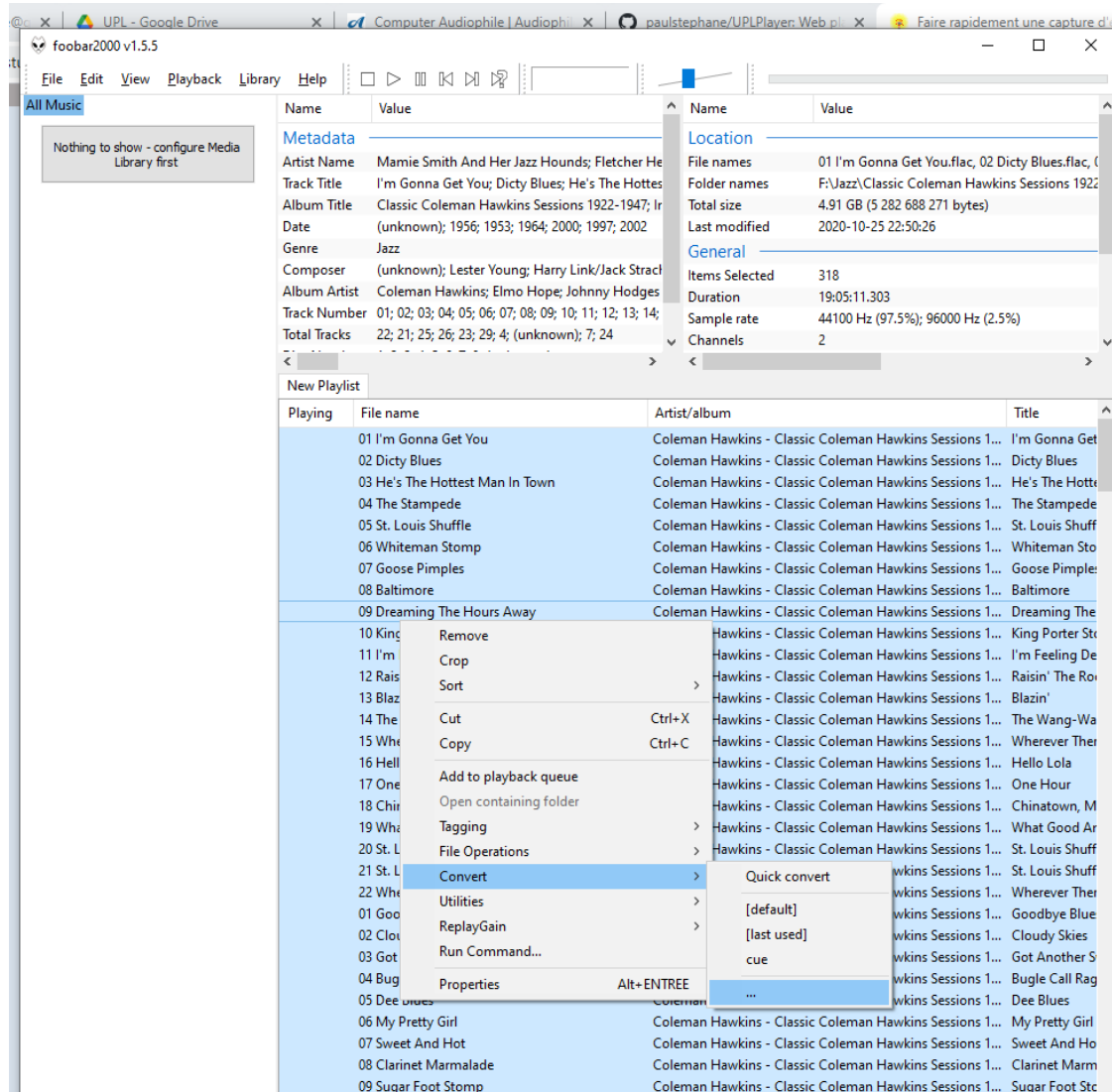
Open Foobar2000's settings with the menu File > Preferences. Select the “Advanced” settings on the left-hand side panel, then open up Tools > Converter on the right-hand side panel and check the option “Write UTF-8 cuesheets”.



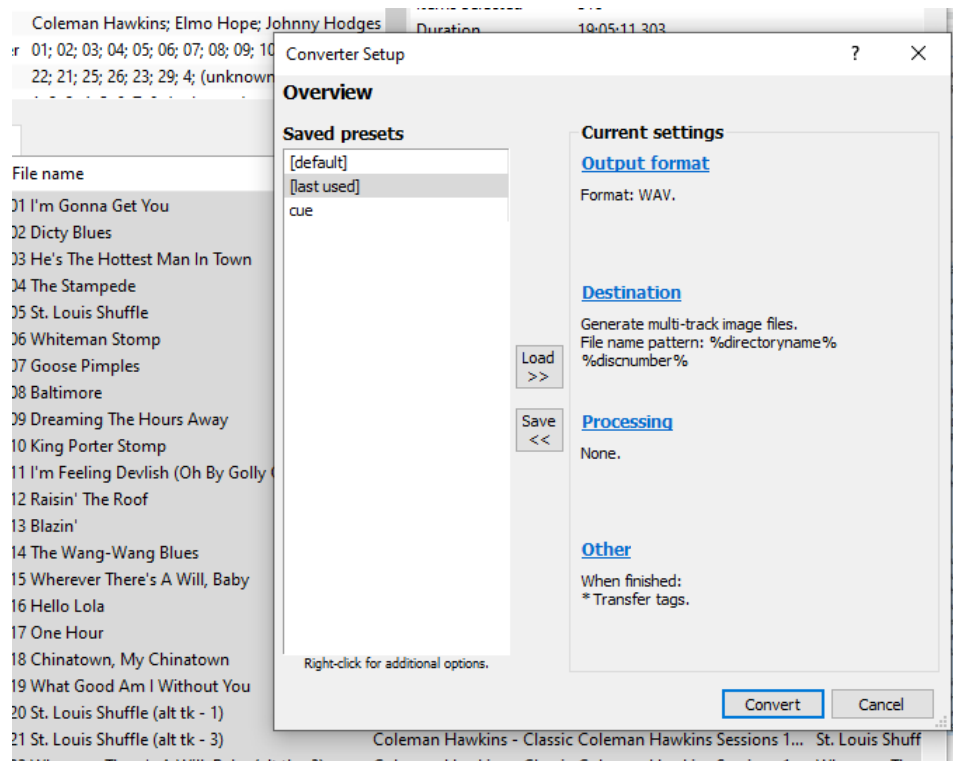
Open Foobar2000, create a new empty playlist, and drag some album folders from Windows Explorer into the new playlist:



Select all tracks, then right-click on any track and select the menu Convert > ...



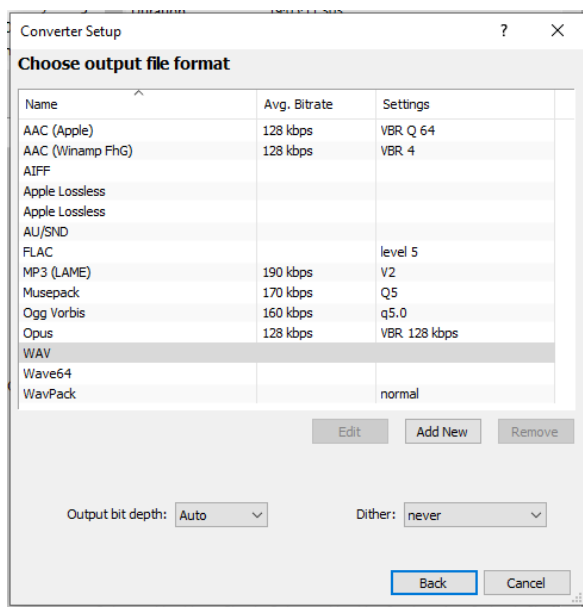
The converter window will be shown:



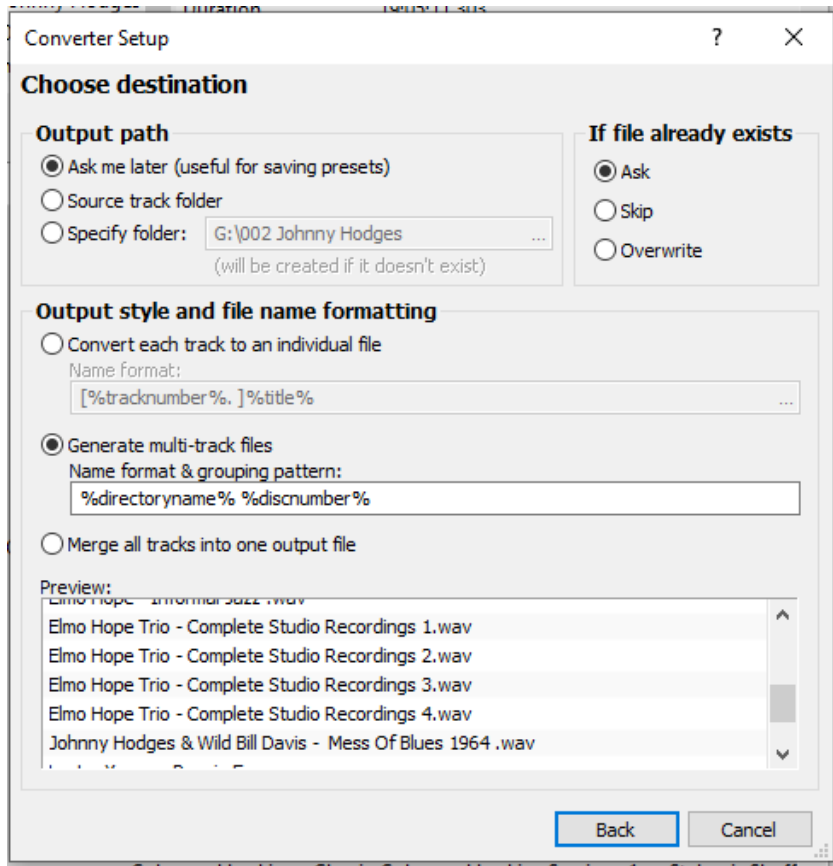
Four settings need to be defined on the right-hand side, then saved as a “preset”.

### 1) Output format

Simply select WAV in the list, and click on the “Back” button



## 2) Destination



- Select “Ask me later” in the “Output Path” settings. When running the conversion, you will be prompted to select the folder where the converted files will be stored
- Select “Generate multi-track files” in the “Output style” settings. This will group multiple tracks in single-track wave files and generate cue-sheets. The “name format & grouping pattern” can be used to create different wav files according to track tags, or file and folder names.

Example:

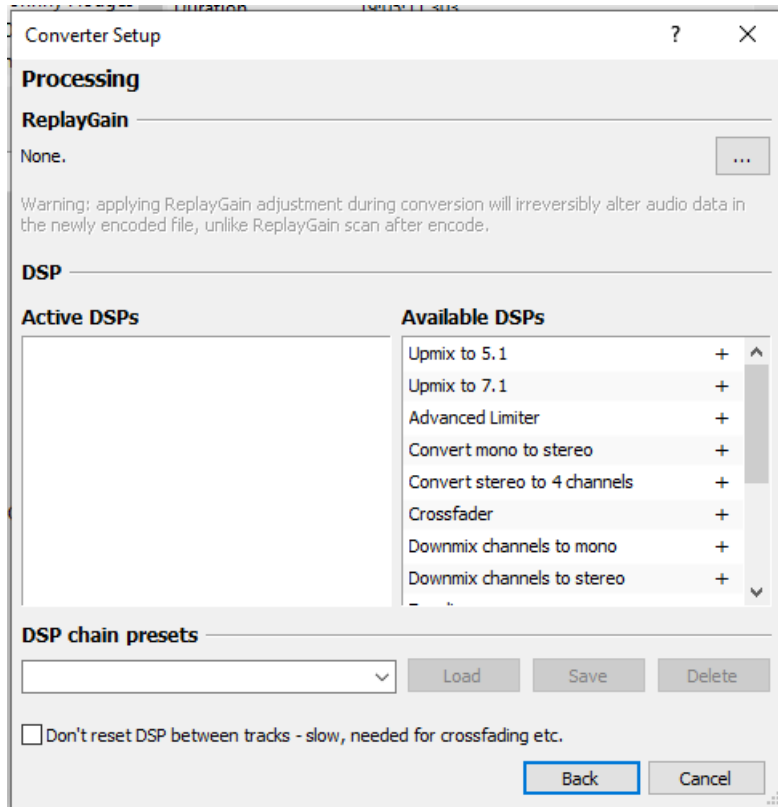
- When converting multiple albums, you can use the track tags %album artist% %album% to create one wav file per album
- You can add the tag %discnumber% or %disc% to further split albums by disc

Refer to this documentation for a full list of formatting references:

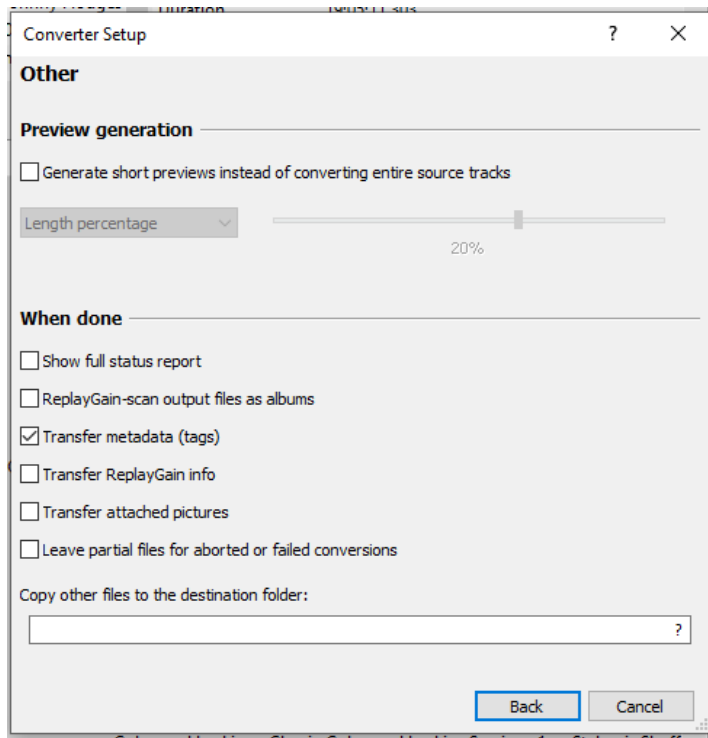
[https://wiki.hydrogenaud.io/index.php?title=FooBar2000:Title\\_Formatting\\_Reference#.24select.28n.2Ca1.2C....2CaN.29](https://wiki.hydrogenaud.io/index.php?title=FooBar2000:Title_Formatting_Reference#.24select.28n.2Ca1.2C....2CaN.29)

### 3) Processing Options

Processing options can be left blank. Use of DSPs may introduce some degradation in sound quality.



### 4) Other settings



Check the option “Transfer metadata (tags)” to write track tags into the cue-sheets.

Standard tags written to the cue-sheets are:

- ALBUM and TRACK titles
- GENRE
- DATE (or YEAR)
- Album CATALOG reference (not widely used)
- Track ISRC reference (not widely used)

The UPLPlayer application reads all these tags but currently only the Album and Track titles and the album’s Genre are displayed in the web page.

Once all settings are defined, they can be saved in a “preset”, which can be used as a shortcut in the context menu of the playlist.

Wave files and Cue sheets will be created in the target folder and named according to the settings defined:

<div> <div> <div>←</div> <div>→</div> <div>⌵</div> <div>⬆</div> </div> <div> <div>📁</div> <div>This PC &gt; UPL4 (G:) &gt; 201 New</div> </div> </div>				
<div> <div>★ Quick access</div> <div> <div>This PC</div> <div>3D Objects</div> <div>Desktop</div> <div>Documents</div> <div>Downloads</div> <div>Music</div> <div>Pictures</div> <div>Videos</div> <div>Local Disk (C:)</div> <div>Music (F:)</div> <div><b>UPL4 (G:)</b></div> <div>MUSIC_EXTRA (H:)</div> <div>Music (F:)</div> </div> </div>	Name	Date modified	Type	Size
	Elmo Hope - Informal Jazz .wav	10/30/2020 1:17 AM	WAV Audio File (V...	400,220 KB
	Elmo Hope - Informal Jazz .wav.cue	10/30/2020 1:17 AM	CUE Sheet	1 KB
	Elmo Hope Trio - Complete Studio Recor...	10/30/2020 1:18 AM	WAV Audio File (V...	808,969 KB
	Elmo Hope Trio - Complete Studio Recor...	10/30/2020 1:18 AM	CUE Sheet	3 KB
	Elmo Hope Trio - Complete Studio Recor...	10/30/2020 1:18 AM	WAV Audio File (V...	819,675 KB
	Elmo Hope Trio - Complete Studio Recor...	10/30/2020 1:18 AM	CUE Sheet	2 KB
	Elmo Hope Trio - Complete Studio Recor...	10/30/2020 1:18 AM	WAV Audio File (V...	822,581 KB
	Elmo Hope Trio - Complete Studio Recor...	10/30/2020 1:18 AM	CUE Sheet	2 KB
	Elmo Hope Trio - Complete Studio Recor...	10/30/2020 1:18 AM	WAV Audio File (V...	820,950 KB
	Elmo Hope Trio - Complete Studio Recor...	10/30/2020 1:18 AM	CUE Sheet	2 KB
	Johnny Hodges & Wild Bill Davis - Mess ...	10/30/2020 1:18 AM	WAV Audio File (V...	948,891 KB
	Johnny Hodges & Wild Bill Davis - Mess ...	10/30/2020 1:18 AM	CUE Sheet	1 KB
	Lester Young - Pres in Europe .wav	10/30/2020 1:18 AM	WAV Audio File (V...	386,057 KB
	Lester Young - Pres in Europe .wav.cue	10/30/2020 1:18 AM	CUE Sheet	1 KB
	Sid Catlett - 1944-1946 .wav	10/30/2020 1:18 AM	WAV Audio File (V...	794,099 KB
	Sid Catlett - 1944-1946 .wav.cue	10/30/2020 1:18 AM	CUE Sheet	3 KB

Assuming these files are now located in a folder numbered 001 to 999 on a USB drive, the **UPLScan** program will automatically rename them sequentially based on an alphabetic order:

<div> <div> <div>←</div> <div>→</div> <div>⌵</div> <div>⬆</div> </div> <div> <div>📁</div> <div>This PC &gt; UPL4 (G:) &gt; 201 New</div> </div> </div>				
<div> <div>★ Quick access</div> <div> <div>This PC</div> <div>3D Objects</div> <div>Desktop</div> <div>Documents</div> <div>Downloads</div> <div>Music</div> <div>Pictures</div> <div>Videos</div> <div>Local Disk (C:)</div> <div>Music (F:)</div> <div><b>UPL4 (G:)</b></div> <div>MUSIC_EXTRA (H:)</div> <div>Music (F:)</div> <div>MUSIC_EXTRA (H:)</div> <div>Network</div> </div> </div>	Name	Date modified	Type	Size
	_01 Elmo Hope - Informal Jazz.cue	10/30/2020 1:17 AM	CUE Sheet	1 KB
	_02 Elmo Hope Trio - Complete Studio R...	10/30/2020 1:18 AM	CUE Sheet	3 KB
	_03 Elmo Hope Trio - Complete Studio R...	10/30/2020 1:18 AM	CUE Sheet	2 KB
	_04 Elmo Hope Trio - Complete Studio R...	10/30/2020 1:18 AM	CUE Sheet	2 KB
	_05 Elmo Hope Trio - Complete Studio R...	10/30/2020 1:18 AM	CUE Sheet	2 KB
	_06 Johnny Hodges & Wild Bill Davis - ...	10/30/2020 1:18 AM	CUE Sheet	1 KB
	_07 Lester Young - Pres in Europe.cue	10/30/2020 1:18 AM	CUE Sheet	1 KB
	_08 Sid Catlett - 1944-1946.cue	10/30/2020 1:18 AM	CUE Sheet	3 KB
	_09 VA - Wax Label Sessions.cue	10/30/2020 1:18 AM	CUE Sheet	4 KB
	01 Elmo Hope - Informal Jazz.wav	10/30/2020 1:17 AM	WAV Audio File (V...	400,220 KB
	02 Elmo Hope Trio - Complete Studio Re...	10/30/2020 1:18 AM	WAV Audio File (V...	808,969 KB
	03 Elmo Hope Trio - Complete Studio Re...	10/30/2020 1:18 AM	WAV Audio File (V...	819,675 KB
	04 Elmo Hope Trio - Complete Studio Re...	10/30/2020 1:18 AM	WAV Audio File (V...	822,581 KB
	05 Elmo Hope Trio - Complete Studio Re...	10/30/2020 1:18 AM	WAV Audio File (V...	820,950 KB
	06 Johnny Hodges & Wild Bill Davis - M...	10/30/2020 1:18 AM	WAV Audio File (V...	948,891 KB
	07 Lester Young - Pres in Europe.wav	10/30/2020 1:18 AM	WAV Audio File (V...	386,057 KB
	08 Sid Catlett - 1944-1946.wav	10/30/2020 1:18 AM	WAV Audio File (V...	794,099 KB
	09 VA - Wax Label Sessions.wav	10/30/2020 1:18 AM	WAV Audio File (V...	726,105 KB

The USB drive can be inserted in the UPL96ETL for playback!