

PAPAGAN

AUDIO MANAGEMENT APPLICATION

USER MANUAL



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**DOCUMENT APPROVAL PAGE**

This document has been prepared, reviewed, and approved by the authorized persons whose signatures appear below.

NAME	TITLE	SIGNATURE	DATE
PREPARED BY			
M. Uygur AKGÜL	GENERAL MANAGER		16.04.2026
REVIEWED BY			
M. Uygur AKGÜL	GENERAL MANAGER		16.04.2026
APPROVED BY			
M. Uygur AKGÜL	GENERAL MANAGER		16.04.2026



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1. GENERAL FEATURES

The Papağan is an intelligent audio announcement system developed to provide voice notifications and guidance to the user, and it can be managed via an external memory card.

The device is capable of playing pre-defined audio files and has been designed with a flexible structure suitable for various usage scenarios. Thanks to its compact hardware design, it can be easily integrated into different systems and devices.

The Papağan system has been developed for industrial and commercial applications with its reliable operation, easily updatable audio infrastructure, practical usability features, and ease of maintenance. It offers efficient field usage advantages through organized file management and fast content update capabilities.

2. SYSTEM OVERVIEW



Image 1: Product Image

3. TECHNICAL SPECIFICATIONS

The Papağan is a compact, intelligent audio module with CANBUS communication infrastructure, capable of managing audio files via an external memory card.

Thanks to the SD card slot on the device, audio content can be easily uploaded, updated, and managed through external storage. Supported audio files are played via the built-in playback system and delivered as audio notifications through the external speaker output.

The product can operate in integration with different control units through CANBUS communication support. In this way, specific audio recordings can be triggered based on predefined commands. With its compact dimensions, mounting holes for secure installation, and robust enclosure design, it ensures safe operation in confined spaces. The Papağan has been designed with a focus on easy maintenance, fast audio updates, reliable performance, and long service life.

3.1 CONNECTION DIAGRAM

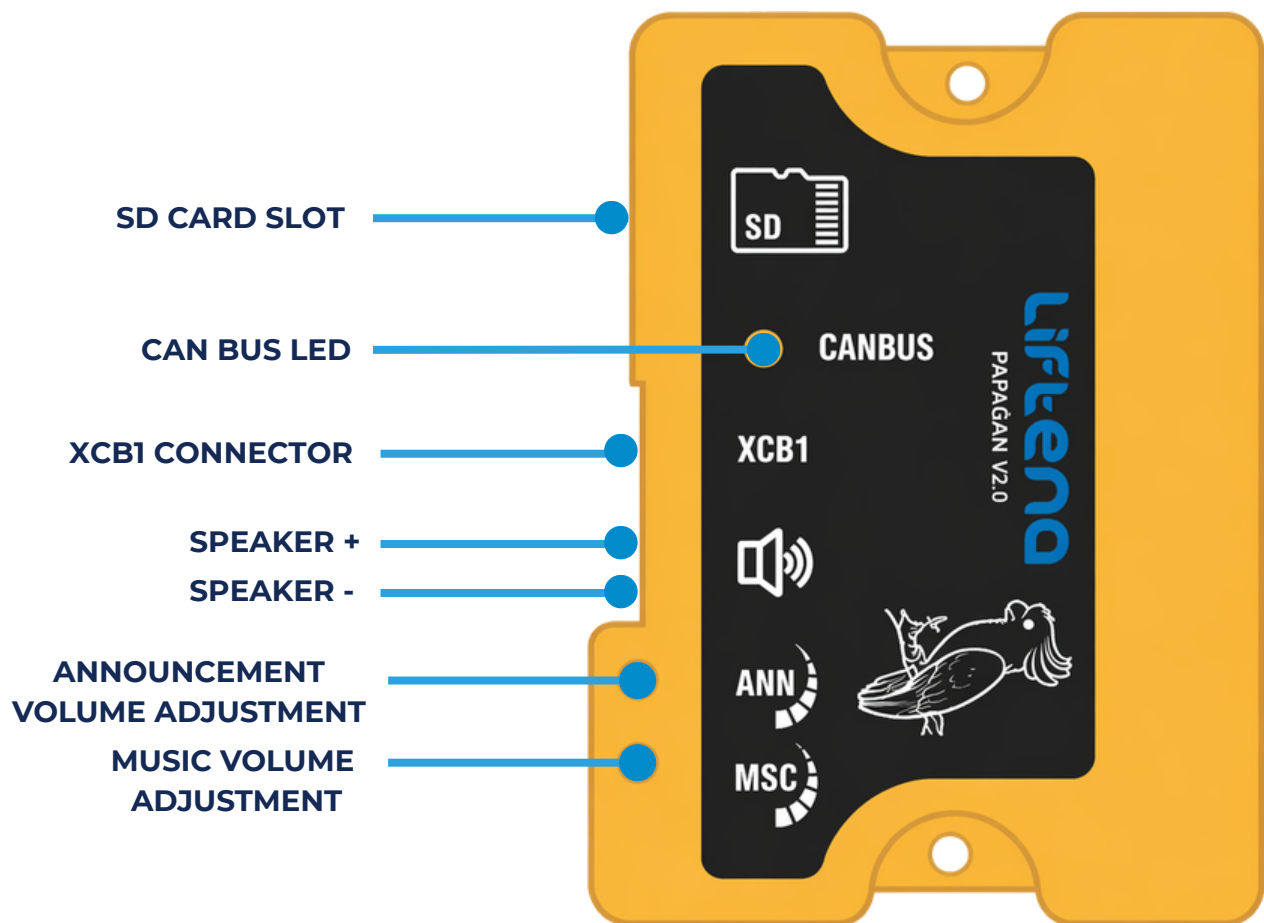


Figure 1: Connection Diagram

The diagram above shows the main connection points and control components available on the Papağan device.

These areas, located on the front panel of the device, allow both hardware connections to be made and audio settings to be easily managed by the user.

The SD Card Slot shown in the diagram is used for storing and reading audio files by the device. All audio content is managed through this card, and the device operates using the data stored on it.

The CANBUS LED allows the communication status of the device to be monitored visually. If the LED blinks irregularly, it indicates that there is no current data exchange or no communication. A steady and regular indication means that the device is actively operating and data communication over CANBUS is functioning properly.

The XCB1 Connector is the main connection interface of the device, through which the supply voltage and CANBUS lines are provided. All electrical connections are made via this connector.

The Speaker + and Speaker – outputs are used for connecting an external speaker. The device transmits processed audio files through these outputs to generate voice notifications.

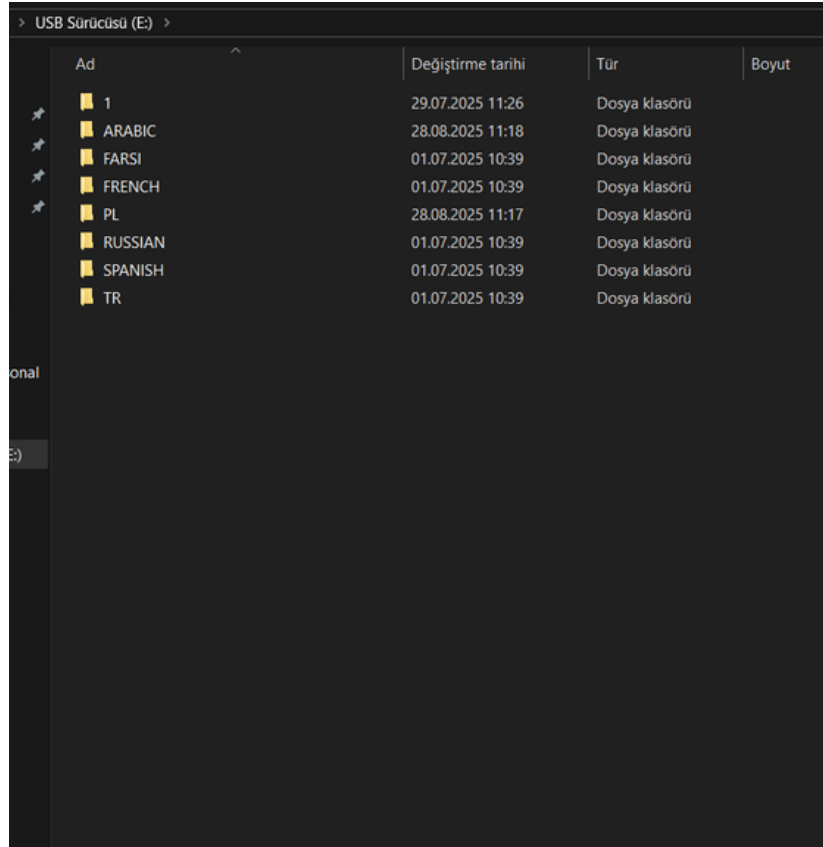
Additionally, the device includes two adjustment controls. The Announcement Volume Adjustment (ANN) is used to set the volume level of announcement content, while the Music Volume Adjustment (MSC) is used to control the volume level of music content. This allows different volume levels to be set for different types of audio.

3.2 SD CARD STRUCTURE

The SD card used in the Papağan device is the main storage unit that contains all the audio files required for the system to operate.

The contents of the SD card are organized according to a specific folder structure, and the device operates based on this structure.

When the SD card is first opened, multiple folders are present in the root directory. These folders are organized according to different language options and usage scenarios.



Ad	Değiştirme tarihi	Tür	Boyut
1	29.07.2025 11:26	Dosya klasörü	
ARABIC	28.08.2025 11:18	Dosya klasörü	
FARSI	01.07.2025 10:39	Dosya klasörü	
FRENCH	01.07.2025 10:39	Dosya klasörü	
PL	28.08.2025 11:17	Dosya klasörü	
RUSSIAN	01.07.2025 10:39	Dosya klasörü	
SPANISH	01.07.2025 10:39	Dosya klasörü	
TR	01.07.2025 10:39	Dosya klasörü	

Image 2: File Structure

Language Folders

The folders located in the root directory such as ARABIC, FARSI, FRENCH, RUSSIAN, SPANISH, and TR contain announcement audio files for different languages. Each language folder is divided into two subfolders:

- FLOOR: This folder contains floor and door announcements (e.g., floor information, door opening direction, etc.).
- INFO: This folder contains informational and warning announcements (e.g., “door opening”, “emergency”, etc.).

Thanks to this structure, the device offers flexible operation across multiple languages.

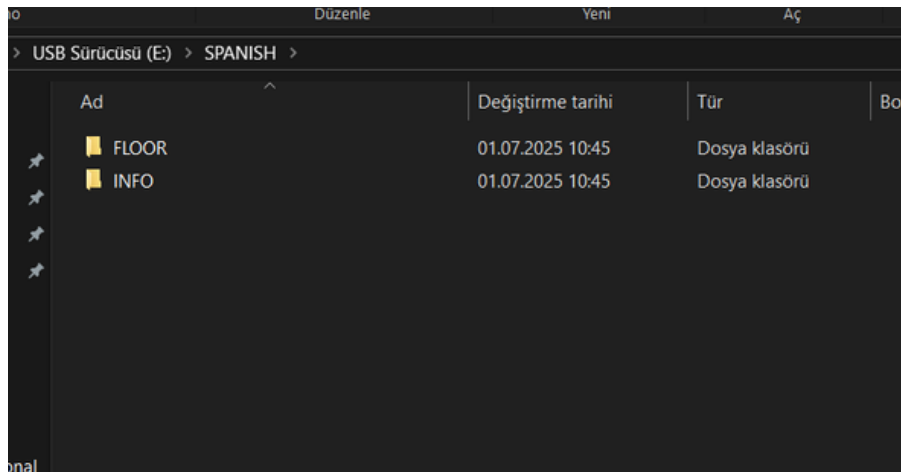


Image 3: “SPANISH” Folder Contents

Active Usage Folder (1)

The “1” folder located on the SD card is the folder actively used by the system.

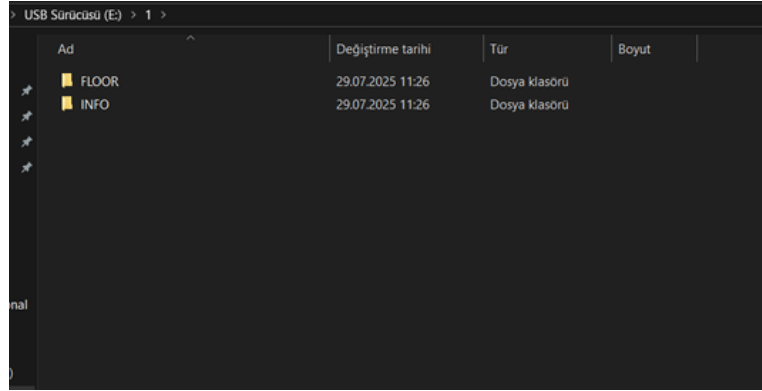


Image4: View of Files in the “1” Folder

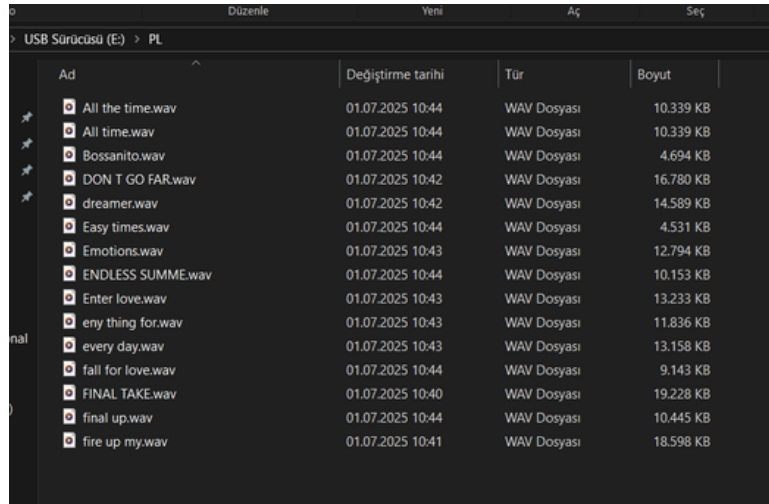
The user should copy the FLOOR and INFO contents from the desired language folder into this folder, depending on the preferred announcement language. During operation, the device reads and plays only the audio files located in this folder.

Thanks to this structure, the user can easily change the device language simply by copying the relevant folders.

Music Folder (PL)

The PL folder located on the SD card contains the music files.

The audio files in this folder are used by the device for music playback. Music files and announcement files are kept separate, and the system operates by considering this distinction.



Ad	Değiştirme tarihi	Tür	Boyut
All the time.wav	01.07.2025 10:44	WAV Dosyası	10.339 KB
All the time.wav	01.07.2025 10:44	WAV Dosyası	10.339 KB
Bossanito.wav	01.07.2025 10:44	WAV Dosyası	4.694 KB
DON T GO FAR.wav	01.07.2025 10:42	WAV Dosyası	16.780 KB
dreamer.wav	01.07.2025 10:42	WAV Dosyası	14.589 KB
Easy times.wav	01.07.2025 10:44	WAV Dosyası	4.531 KB
Emotions.wav	01.07.2025 10:43	WAV Dosyası	12.794 KB
ENDLESS SUMME.wav	01.07.2025 10:44	WAV Dosyası	10.153 KB
Enter love.wav	01.07.2025 10:43	WAV Dosyası	13.233 KB
eny thing for.wav	01.07.2025 10:43	WAV Dosyası	11.836 KB
every day.wav	01.07.2025 10:43	WAV Dosyası	13.158 KB
fall for love.wav	01.07.2025 10:44	WAV Dosyası	9.143 KB
FINAL TAKE.wav	01.07.2025 10:40	WAV Dosyası	19.228 KB
final up.wav	01.07.2025 10:44	WAV Dosyası	10.445 KB
fire up my.wav	01.07.2025 10:41	WAV Dosyası	18.598 KB

Image 5: “PL” Folder Contents

General Operating Logic

- Language folders → Predefined announcement archive
- “1” folder → Actively used announcements
- “PL” folder → Music files

The device reads only the “1” folder during operation and plays the files stored in this folder.

- All audio files must be in a format supported by the system (WAV).
- The file naming convention must be followed.
- The SD card structure must not be modified, and folder names must be preserved.
- It is recommended to safely remove the card during file transfer operations.

4. MOUNTING DIMENSIONS

The Papağan device is designed with compact dimensions and standard mounting holes to provide easy installation in field applications.

The mounting holes on the device have a diameter of 4 mm and should be fixed to a surface using appropriate screws and fastening elements. During installation, it is recommended to place the device on a stable, flat, and vibration-free surface.

For the safety of electrical connections, cables should be positioned neatly and without tension after installation. Additionally, it is recommended to leave sufficient space around the device for maintenance and servicing operations.

5. PAPAGANAPP OVERVIEW

The Papağan Audio Management Application is a desktop application developed for organizing and managing audio files located on the SD card.

With the Papağan Audio Management Application, you can:

- Add audio files to the library.
- Delete files.
- View file information.
- Convert MP3 files to WAV format.
- Save converted files to different folders.

6. PAPGANAPP SYSTEM FEATURES

The application consists of two main screens:

6.1 MAIN SCREEN

The main screen is the primary control panel of the application. The user initiates all operations from this screen.

6.1.1 Voice Library

The Audio Library is the section where all audio files added to the application are listed.

This section represents the “Lib” folder located within the application directory, and all audio files added by the user are displayed here.

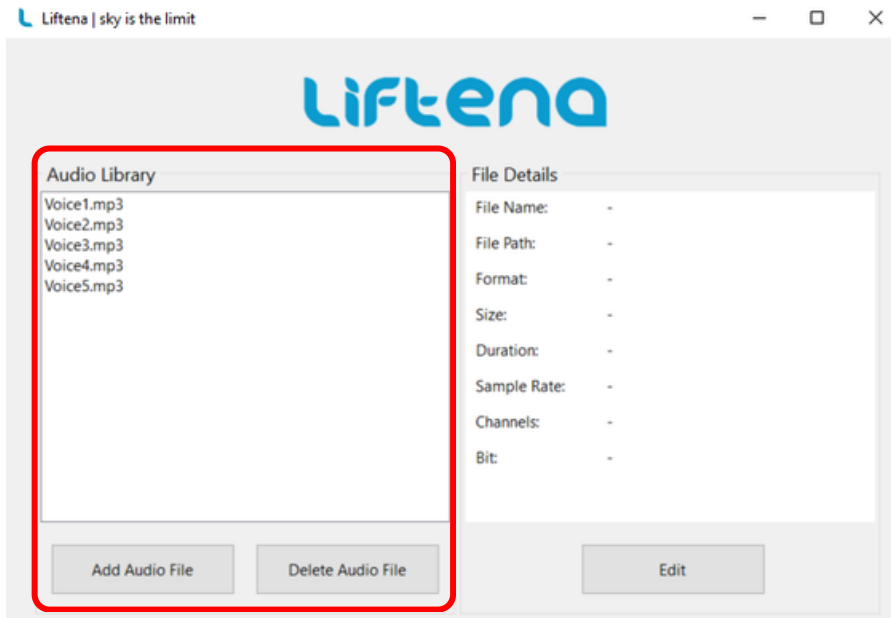
The features of the Audio Library are as follows:

- Lists all audio files in the Lib folder.
- Supports .mp3 and .wav file formats.
- Long file names are automatically shortened for display.
- Details of the selected file are shown in the right panel.
- Converted files are marked in the list to inform the user.

The user can select a file from this area to initiate the editing process.

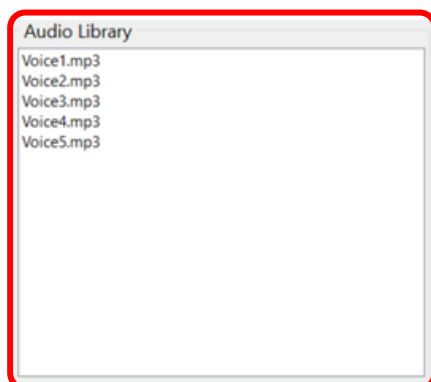
Location on the Main Screen

The audio library is located on the left side of the main screen.



Audio Library Features

All audio files located in the “Lib” folder are displayed in this list.



NOTE: To add audio files to the list, you can use the **“Add Audio File”** button or drag and drop the files directly.

6.1.2 File Details

The File Details section is the area where technical information of the selected file in the audio library is displayed. The user can review the properties of the selected file through this panel.

This area is located on the right side of the main screen, and the information is updated instantly based on the selected file. If no file is selected, the area remains empty.

Displayed Information

The following information is displayed in the “File Details” panel.



File Name

Displays the name of the selected audio file.



File Path

Displays the folder path where the file is located. After the conversion process, this field shows the target folder information.



File Format

Specifies the format of the audio file (.mp3 / .wav).



File Size

Displays the size of the file on disk.



File Duration

Displays the total duration of the audio file in minutes and seconds.



Sample Rate

Displays the sampling frequency of the audio in Hz (e.g., 44100 Hz).



Channels

Indicates whether the audio is mono or stereo.

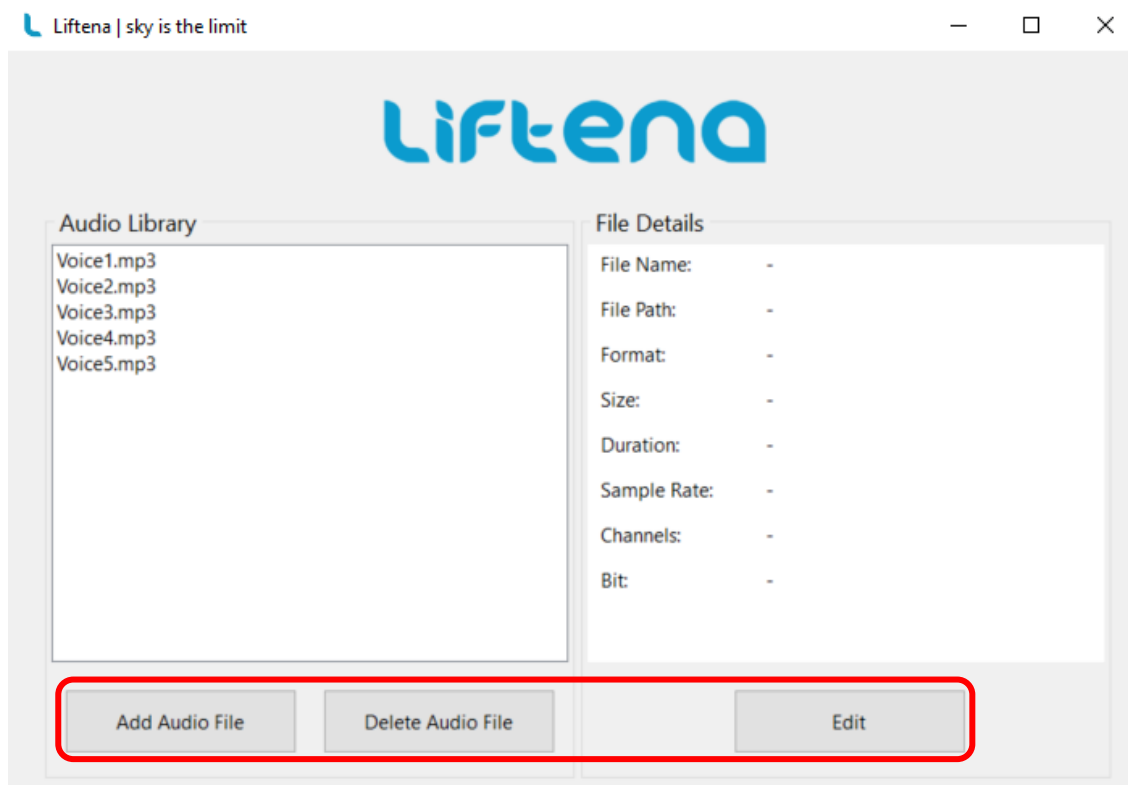


Bit

Displays the bit rate or bit depth of the audio file.

6.1.3 File Adding, Deleting, And Editing Operations

In this section, the user can add audio files to the system, delete them, or initiate editing operations on the selected file.

**01****FILE ADDING**

One or multiple files can be selected from the computer using the **"Add Audio File"** button. Alternatively, files can be added to the list using the drag-and-drop method.

02**FILE DELETION**

The selected file in the list is removed from the **"Lib"** folder using the **"Delete Audio File"** button. User confirmation is required before the deletion process.

03**FILE EDITING**

The selected file is transferred to the editing screen using the **"Edit"** button. On this screen, renaming and conversion operations can be performed.



NOTE: Delete or Edit operations cannot be initiated without selecting a file.

6.2 EDITING SCREEN

The editing screen is where conversion and renaming operations for the selected audio file are performed. From this screen, the user can select the output format, change the file name, and start the conversion process.

OPERATIONS

- 01 File Name**
Displays the name of the selected audio file according to the 10-character limit and naming rules. A new name can be entered.

- 02 Format**
The format of the audio file to be converted is specified in this field. This setting is configured by default (.wav).

- 03 Target Folder**
The location where the file will be saved is specified in this field. The folder can be selected using the “Select Folder” button.

- 04 Save**
Starts the conversion process with the specified settings. The progress can be monitored via the progress bar.

The screenshot shows the Liftena application window titled "Liftena | sky is the limit". It contains two main sections: "File Settings" and "Folder Settings".

- 01** points to the "File Name" input field, which contains the text "Voice5".
- 02** points to the "Format" dropdown menu, which is currently set to ".wav".
- 03** points to the "Target Folder" input field, which is empty.
- 04** points to the "Save" button at the bottom right of the window.

There is also a "Select Folder" button next to the "Target Folder" input field.

6.2.1 File Name Editing

This is the field where the new name of the selected audio file is entered. By default, the selected file name is;

- Up to a maximum of 10 characters,
- Turkish characters are converted to their English equivalents,
- Spaces are replaced with underscores (_).

6.2.2 Format Selection

This is the section where the selected audio file is converted to the **.wav** format. This option is set as default. It should be noted that the selected file must be in **.mp3** format. Otherwise, the application will return an error when adding the file to the audio library.

6.2.3 Target Folder Selection

This is the section used to select the location where the converted **.wav** file will be saved after the conversion process. The converted file does not appear in the **“Audio Library.”** Only the location of the converted file changes, while the files in the **“Lib”** folder remain unchanged.

6.2.4 Conversion Process

After the required settings are configured, pressing the **“Save”** button starts the conversion process. Once the conversion is complete, the converted file is copied to the **“Target Folder.”** In the **“Audio Library”** within the application, a check mark (✓) appears next to the converted file.

7. NICKNAMES

SYSTEM	DESCRIPTION	SYSTEM	DESCRIPTION
 SD	Secure Digital memory card.	 FLOOR	The folder where floor and door announcements are located.
 CANBUS	Controller Area Network communication system.	 INFO	The folder where information and alert announcements are located.
 XCB1	The socket where the device's CANBUS and power connections are made.	 PL	The folder where music files are located.
 SPK	Loudspeaker output.	 WAV	Supported audio file format (Waveform Audio File).
 ANN	Anonymous voice level adjustment.	 MP3	Supported audio file format (MPEG Audio Layer 3).
 MSC	Music voice level adjustment.		

8. NOTES

Not available.

9. APPENDICES

Not available.