Harmony Modular Tower Light Editable Voice Alarm User Guide

PKR9521200

09/2025

The Harmony XVB7 and XV6 editable voice alarms are fully programmable devices that enable users to customize a wide variety of tones to meet specific application requirements. Each unit includes four input channels that control up to 16 individually programmable output channels. This document serves as a comprehensive guide for configuring and operating the voice alarm with ease and precision.

XVB7C9V

XV6C9V

XV6C9VW

www.se.com

Table of Contents

Safety Information

Important Information

Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service, or maintain it. The following special messages may appear throughout this documentation or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.

The addition of this symbol to a “Danger” or “Warning” safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ DANGER

DANGER indicates a hazardous situation which, if not avoided, **will result in** death or serious injury.

⚠ WARNING

WARNING indicates a hazardous situation which, if not avoided, **could result in** death or serious injury.

⚠ CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result** in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to physical injury.

Please Note

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction and operation of electrical equipment and its installation, and has received safety training to recognize and avoid the hazards involved.

About The Document

Document Scope

This documentation is a reference for Harmony XVB7 and XV6 editable voice alarms. The purpose of this document is to explain how to configure the Harmony XVB7 and XV6 editable voice alarms.

Validity Note

The characteristics of the products described in this document are intended to match the characteristics that are available on www.se.com. As part of our corporate strategy for constant improvement, we may revise the content over time to enhance clarity and accuracy. If you see a difference between the characteristics in this document and the characteristics on www.se.com, consider www.se.com to contain the latest information.

Product Related Information

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, ARC FLASH OR EXPLOSION

- Disconnect all power before servicing equipment.
- Install properly rated fuses as recommended in this document.
- Ensure product is supplied with correct power supply before power ON.
- Connect the protective earth (PE) to the XVZ100T and XVZ250T L-bracket ground before power on
- Ensure all wires and/or cables are securely connected to the push-in connector.
- To maintain product waterproofness,
  - No crack/damage is allowed on product after dropped.
  - Screws must be tightened to the require torque level.
  - Ensure gasket is correctly positioned.
  - “Pole” must be fully inserted into the Base/Fixing plate.
  - XV6C9V, XV6C9VW, XVZ100T and XVZ250T should always be positioned in upright orientation.
- Apply lowest IP rating to completed products setup/assembly.
- Connect protective earth (PE) to electrical equipment before turning on power

Failure to follow these instructions will result in death or serious injury.

⚠ CAUTION

BRIGHT LIGHT, LOUD ALARM SOUND AND SHARP EDGES OPERATING HAZARDS

- Wear protective gloves when commissioning/servicing the products.
- High intensity LED light. Do not expose eyes to light source for long duration.
- Do not expose to loud alarm sounds for prolonged periods.

Failure to follow these instructions can result in injury.

NOTICE

LOSS OF LIGHT INTENSITY

- Do not operate the product in ambient temperature above 50°C.

Failure to follow this instruction can result in equipment damage.

1. Hardware Description

XVB7C9V

XV6C9V

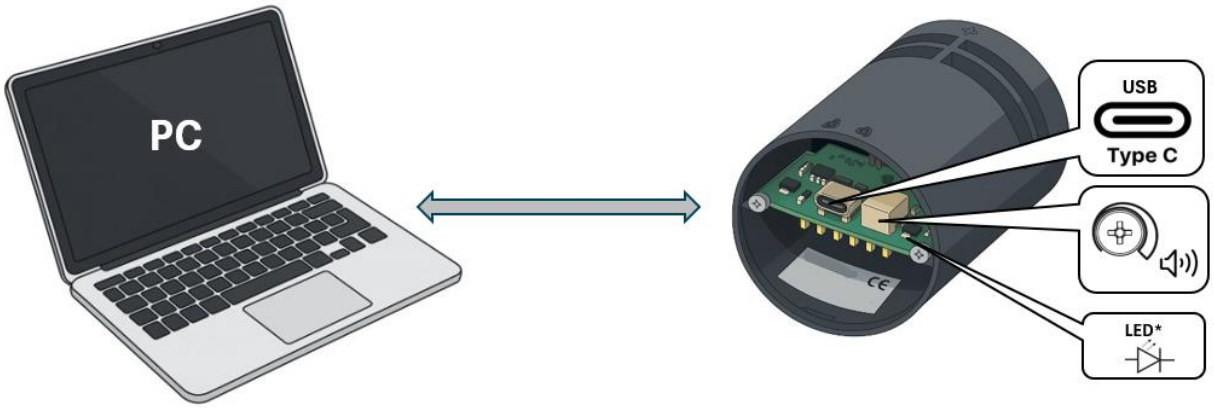
XV6C9VW

2. Specification Details

Products	XVB7C9V, XV6C9V and XV6C9VW
Operating System	Windows XP/7/8/10/11, MacOS, Linux
Operating voltage	24VDC
Current consumption	XVB7C9V (150mA) XV6C9V / XV6C9VW (110mA)
Connector	USB 2.0 Type C
Folder: Tones	Folder 0: Empty Folder 1-15: 15 pre-defined tones
Sound Pressure Level	88 dBA (max)
Supported file types	**.mp3 Supported Files Sample Rates** 8 / 11.025 / 16 / 20.05 / 32 / 44.1 / 48 kHz **.mp3 Supported Files Bit Rates** 32 / 64 / 128 kbps **.wav Supported Files Sample Rates** 8 / 16 / 32 / 44.1 / 48 kHz with signed 16-bit PCM encoding
Memory size	Max= 8MB Available storage space=7.88MB

3. Configuration

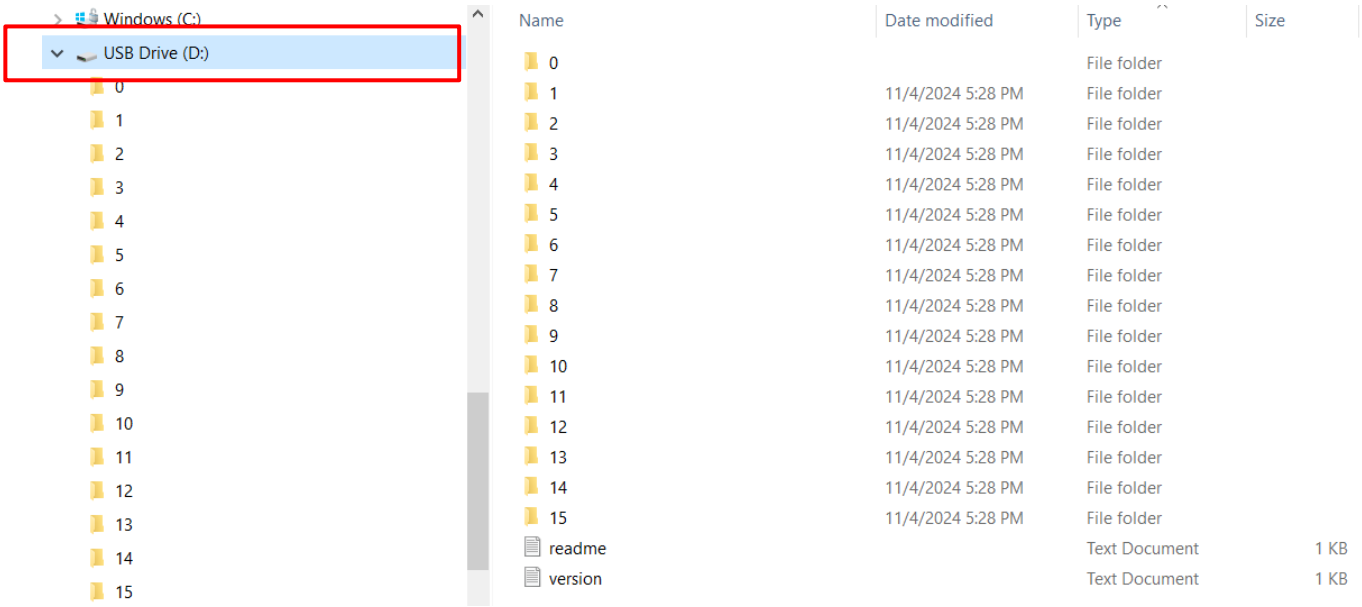
To configure an XVB7 / XV6 editable voice alarm, connect the Voice Module to a PC through a USB Type C cable.



3A. Connecting the Voice alarm-Vocal Device to a PC

Connect the device to your PC using a supported USB port. Refer to page 7 in the specifications page for details on compatible USB ports. Open Windows File Explorer and locate the folder labelled “USB Drive”.

- Connection during the commission stage **MUST** remain established at all times.
- Naming of the folder **MUST** not be changed, to ensure proper device functionality.



The editable voice module features:

- 1 power input for device operation.
- 4 control input channels, each capable of managing 16 output folders.
- Each output folder is mapped to one of 15 pre-defined audio tones, organized sequentially from Folder 1 to Folder 15.

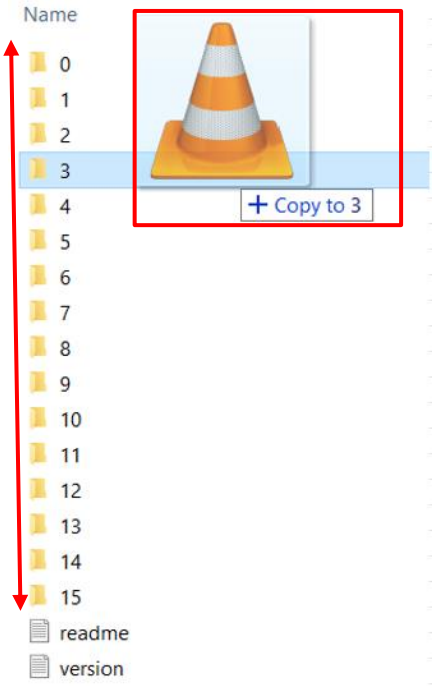
This configuration enables flexible control and playback of specific tones based on input channel activation.

Folder	Tone	Power Supply Input 1	Input Combination			
			Input 2	Input 3	Input 4	Input 5
0	(Empty)	1	0	0	0	0
1	Doorbell Chime	1	1	0	0	0
2	Emergency Bell	1	0	1	0	0
3	Departure Bell	1	1	1	0	0
4	Flicker Chime	1	0	0	1	0
5	Ambulance	1	1	0	1	0
6	Timpani Melody	1	0	1	1	0
7	Steam Whistle	1	1	1	1	0
8	Intermittent Beep	1	0	0	0	1
9	New Timpani Melody	1	1	0	0	1
10	Amaryllis	1	0	1	0	1
11	Camp Town Races	1	1	1	0	1
12	Forbidden Play	1	0	0	1	1
13	Mary’s Lamb	1	1	0	1	1
14	Mozart #40	1	0	1	1	1
15	Old Grandfather Clock	1	1	1	1	1

3B. Changing the Default Tones

To replace the default MP3 tones:

1. Refer to the **Specifications** section for supported audio file formats.
2. Replace your desired MP3 file into one of the folders numbered **1 to 15** within the USB Drive directory.



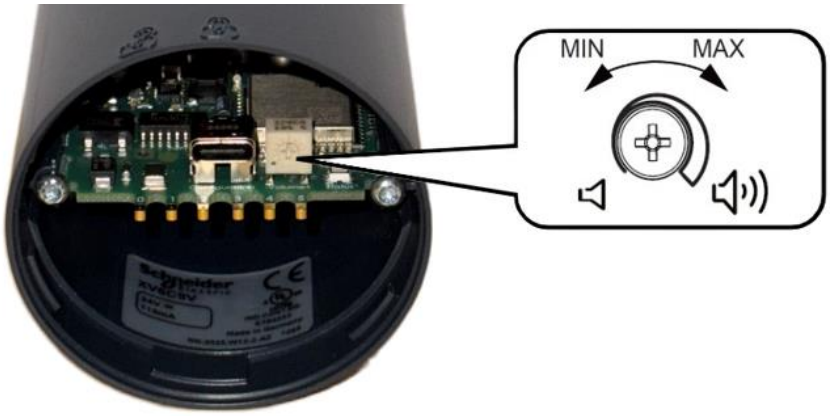
Note Important Guidelines:

- Do **not rename** the existing folders.
- Avoid using **special characters** in file names.
- Ensure **only one audio file** is placed in each folder.
- If a folder is **empty**, no sound will be played.
- You may use a combination of MP3 and WAV files across folders (e.g. Folder 1 with an MP3 file and Folder 2 with a WAV file). This configuration is supported and will function correctly.

3C. Adjusting Tone Volume

To modify the playback volume:

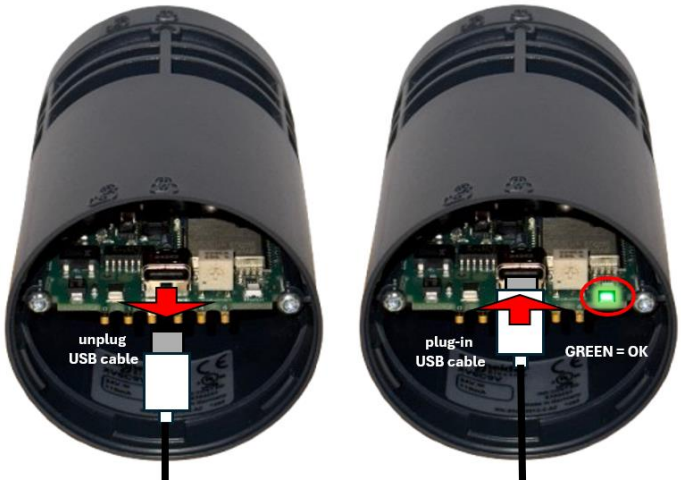
1. Locate the **potentiometer** on the circuit board.
2. **Rotate clockwise** to increase the volume.
3. **Rotate counterclockwise** to decrease the volume.



3D. Checking Configuration

To verify the tone configuration:

1. Power cycle the device by **unplugging and reconnecting** the Voice Alarm-Vocal unit.
2. Observe the **status** LED.



3. Refer to the LED table for the type of error messages and troubleshooting steps below.

Recommended Actions to Resolve Errors

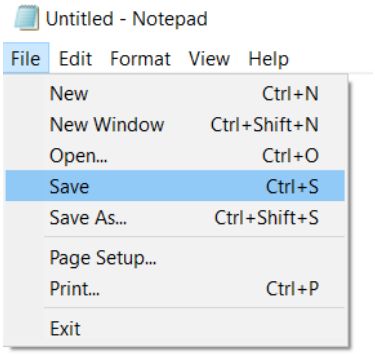
Error	Indication	Recommended Actions
Broken Filesystem	Red static led	Fix configuration (check for multiple files in folder) or perform a factory reset
Broken FAT-FS (Cannot mount USB drive, formatting is necessary)	Red blinking led	1. Connect Vocal to PC 2. Right click on the USB device 3. Format to FAT32 4. Disconnect and Reconnect 5. Perform factory reset

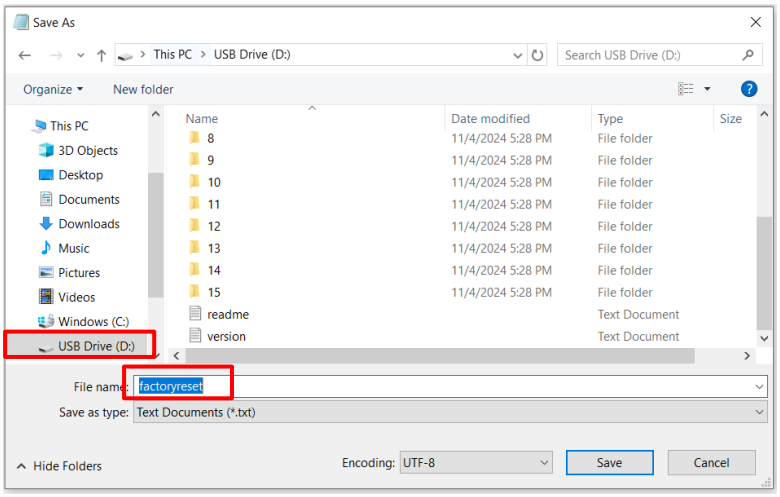
3E. Factory Reset Procedure

To initiate a factory reset, create a plain text document named ***factoryreset*** and place it in the designated system directory.

1. Open an empty.txt file.

2. Save the empty.txt file as filename `***factoryreset***` into USB Drive.

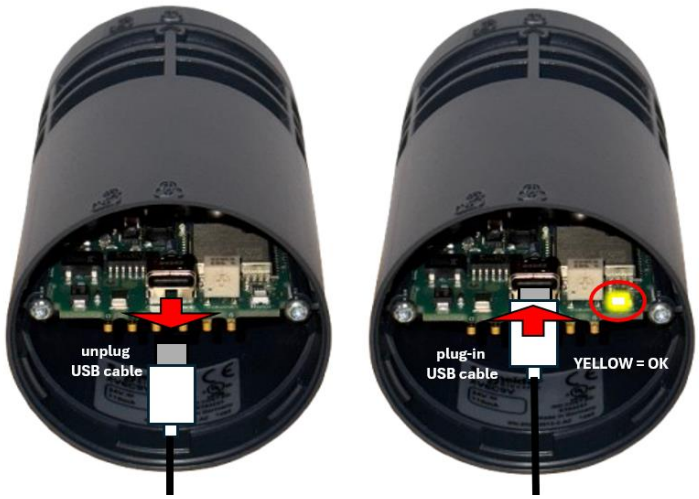




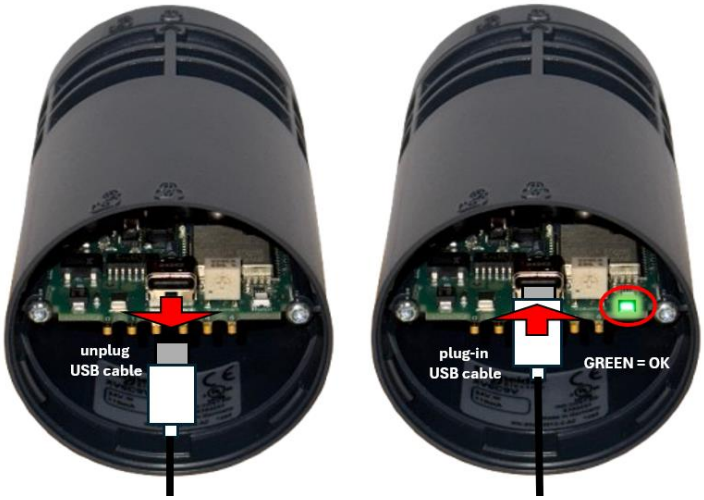
3. Check for factoryreset.txt file in the **USB Drive.**

Name	Date modified	Type	Size
0		File folder	
1	11/4/2024 5:28 PM	File folder	
2	11/4/2024 5:28 PM	File folder	
3	11/4/2024 5:28 PM	File folder	
4	11/4/2024 5:28 PM	File folder	
5	11/4/2024 5:28 PM	File folder	
6	11/4/2024 5:28 PM	File folder	
7	11/4/2024 5:28 PM	File folder	
8	11/4/2024 5:28 PM	File folder	
9	11/4/2024 5:28 PM	File folder	
10	11/4/2024 5:28 PM	File folder	
11	11/4/2024 5:28 PM	File folder	
12	11/4/2024 5:28 PM	File folder	
13	11/4/2024 5:28 PM	File folder	
14	11/4/2024 5:28 PM	File folder	
15	11/4/2024 5:28 PM	File folder	
readme		Text Document	1 KB
version		Text Document	1 KB
factoryreset	7/9/2024 4:49 PM	Text Document	0 KB

4. Power cycle the device by **unplugging it and then plugging it** back in. The factory reset process will begin **automatically** if the LED indicator starts blinking **yellow**.



5. The reset typically completes within **approximately one minute**, after which the LED will turn **green**, indicating the device is ready for use.

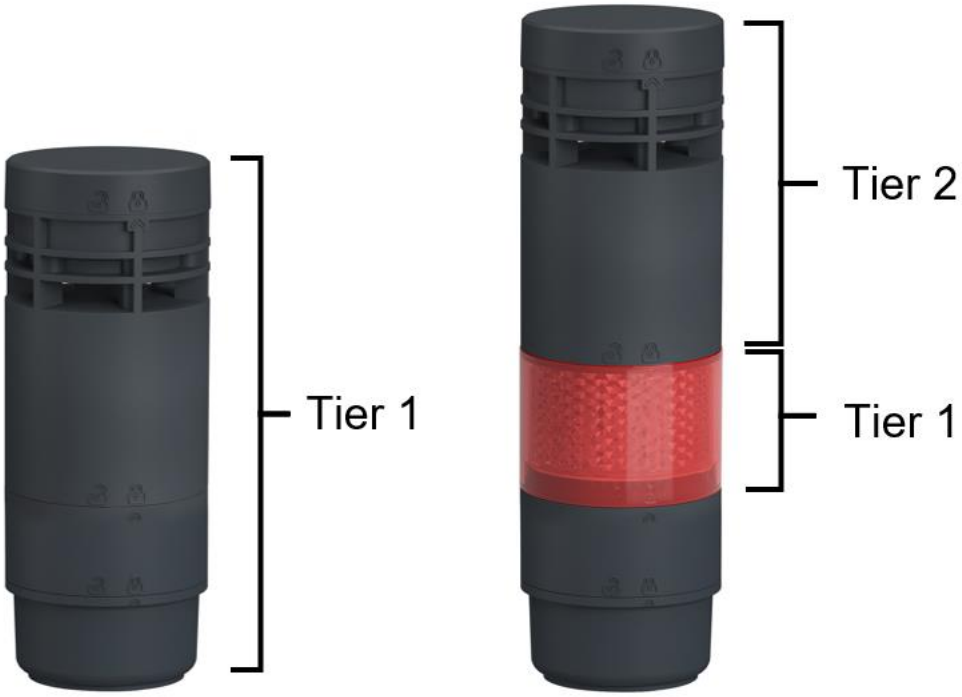


Note: Never disconnect the Voice Alarm-Vocal device while the factory reset is in progress. Interrupting the process could result in incomplete reset or system malfunction.

4. Operation

4A. Tower Light Connection with Voice alarm

Connect the input wire to the Channel(X1-X5) that you require. Ensure that power must be always on. When you connect to Tier 1 with 24V base, X1 input channel is used to power ON. If you connect to other tiers, your input channel is changed to the next channel.



Take note:

- One input channel will be used when a light module is added
- Lesser input channels are available when more light modules are used
- Refer to the tables below for comparison between the different tiers
- Refer to instruction sheet for other tier configuration and input channels

Example 1
Tier 1: Editable Voice to 24V Base & **Tier 2**: Empty

In this configuration, X1 is the power supply to Editable Voice product and there are 4 input channels (X2, X3, X4 and X5) to control 15 tone folders.

Position	Folder	Tone	Tier 1				
			X1 (input 1)	X2 (input 2)	X3 (input 3)	X4 (input 4)	X5 (input 5)
	0	(Empty)	o				
	1	Doorbell Chime		o			
	2	Emergency Bell			o		
	3	Departure Bell		o	o		
	4	Flicker Chime				o	
	5	Ambulance		o		o	
	6	Timpani Melody			o	o	
	7	Steam Whistle		o	o	o	
	8	Intermittent Beep					o
	9	New Timpani Melody		o			o
	10	Amaryllis			o		o
	11	Camp Town Races		o	o		o
	12	Forbidden Play				o	o
	13	Mary's Lamb		o		o	o
	14	Mozart #40			o	o	o
	15	Old Grandfather Clock		o	o	o	o

Power Supply

Input Channel

Example 2

Tier 1: Light & **Tier 2**: Editable Voice to 24V Base

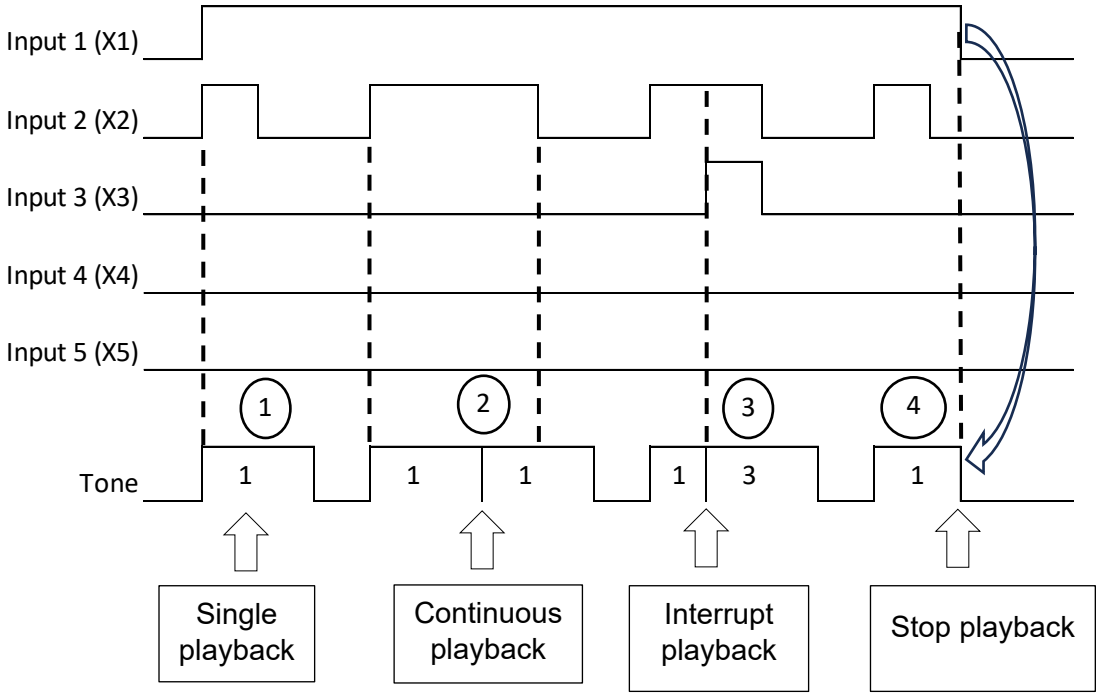
In this configuration, X1 will control Light ON/OFF, X2 is the power supply to Editable Voice product and there are 3 input channels (X3, X4 and X5) to control 7 tone folders. Only 7 tone folders are available because of the already used input channels.

Position	Folder	Tone	Tier 1	Tier 2			
			X1	X2 (input 1)	X3 (input 2)	X4 (input 3)	X5 (input 4)
	0	(Empty)	o (Power ON for Light ON)	o			
	1	Doorbell Chime			o		
	2	Emergency Bell				o	
	3	Departure Bell			o	o	
	4	Flicker Chime					o
	5	Ambulance			o		o
	6	Timpani Melody				o	o
	7	Steam Whistle			o	o	o

Power Supply

Input Channel

4B. Trigger Playback



Single Playback (1)

To play a sound file only once, the input combination associated with the sound must be triggered, afterwards an input combination with an empty sound folder needs to be played. After this procedure, the triggered sound file will be played to completion, but not in a loop.

> Example: In folder 0, there is no sound file, and in folder 1, there is a sound file that should be played to completion. To play the sound file completely, the input combination 1-0-0-0 is applied first, followed shortly by the input combination 0-0-0-0.

Continuous Playback (2)

A sound will be played in loop if the input is in a static combination.

Interrupt Playback (3)

When there is a new channel input triggered during playback, the sound will be interrupted and changed to a new input channel sound.

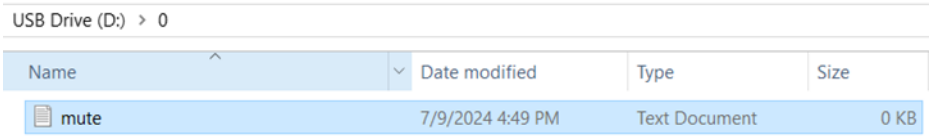
> Example: the input combination 1-0-0-0 is applied first, while tone 1 playback, the input combination changes to 1-1-0-0, tone 1 will stop and change to tone 3 playback.

Stop Playback (4)

To stop single playback, change the power supply.

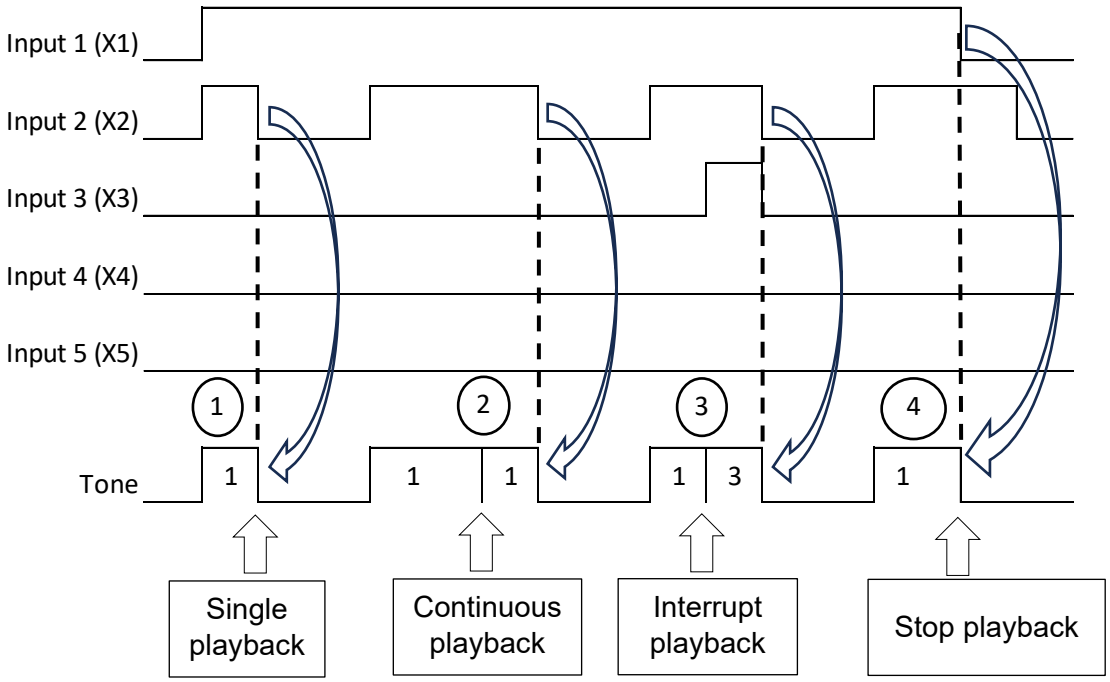
4C. Stop Single Playback

To stop a running playback, the user can create a mute-file in one of the folders, for example, mute-file created in folder 0. When switching to a folder with a mute file, the playback will be stopped immediately. Any file that is named “mute” will work, for example mute.txt, mute.wav, mute.mp3.



A sound will be played in loop if the input is in a static combination and stop when switching to a folder with a mute file.

When there is a new channel input trigger during playback, the sound will be interrupted and changed to the new input channel sound and stopped when switched to a folder with a mute file.



4D. LED-Light Pattern

The LED light patterns are described on the table below.

Colour	Pattern	Description
Green	Blink	This LED pattern indicates that the current device configuration was valid during the file system check and the device is operating normally.
Red	Static	This LED pattern indicates that the device has an invalid configuration. It might be missing the required settings or have incorrect values. This status requires further investigation to resolve the issue.
Red	Blink	This LED pattern indicates that the device has a hardware error. The error may be caused by a malfunctioning component, a failed system check, or an issue with the device's power supply. This status requires repair or replacement of the hardware.
Yellow	Blink	This LED pattern indicated that the device is currently undergoing a factory-reset. The factory reset process is in progress and the device is not available for use during this time. Once the update is complete, the LED will turn static green if the current configuration is valid. If the configuration is invalid, the LED will turn red instead.