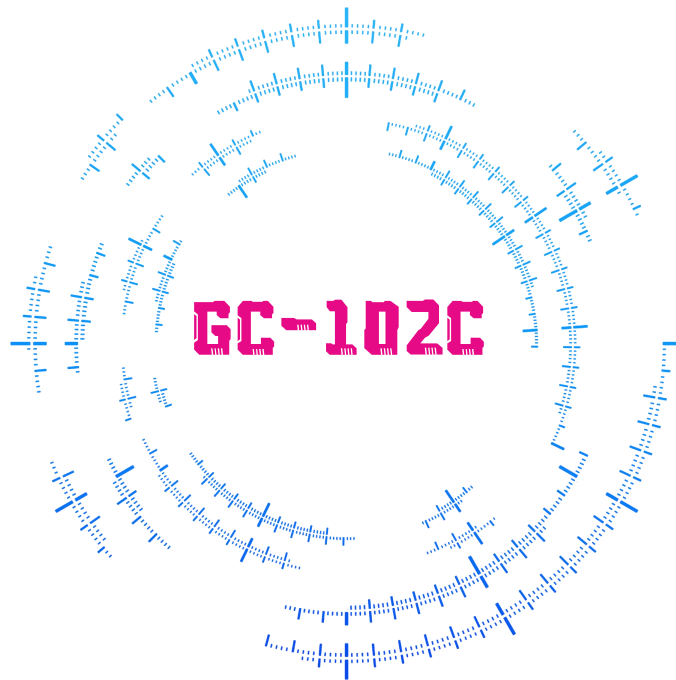
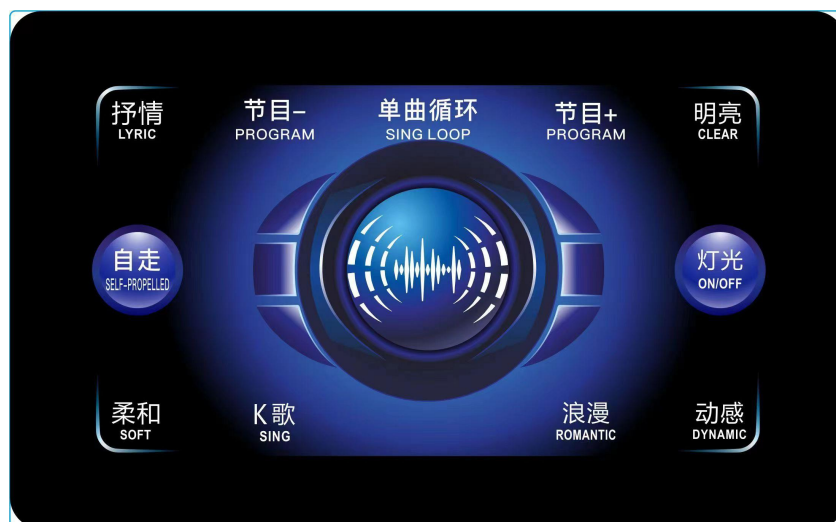




Audio recognition

Light and sound control box (with touch panel)



GC-102C is a high-precision audio recognition voice control box that collects and analyzes input audio to identify low-frequency drum beats, converts them into high-speed DMX512 digital trigger signals, and works with a light and GC series LED controller to achieve sound and light linkage effects.

GC-102C has multiple modes to choose from:

- Sound and light linkage mode
- Voice controlled brightness mode
- Voice controlled speed mode
- Voice controlled brightness+speed combination mode
- Automatic overall loop (audio invalid)
- Soft mode (the first 5 programs in the loop have invalid audio)
- Single loop mode (single loop plays selected program, audio is invalid)
- Bright mode: Fixed display of the sixth program in the SD card (touch panel selection)

GC-102C is equipped with buttons and display interface, which can quickly set parameters such as working mode, trigger delay, and the number of sound and light linkage scenes.

GC-102C can be connected to an external touch panel for setting working modes and lighting switches.

## Specification parameters

Power input: DC 12V

Power consumption: 2W

Input trigger interface: audio interface+microphone

Output interface: RJ45 Ethernet cable interface

Output signal: DMX512

Working temperature: -20 °C~65 °C

Voice control box size: L68 × W95 × H26 mm

Touch panel size: 190 X 120 mm

Weight (gross weight): 0.6 Kg

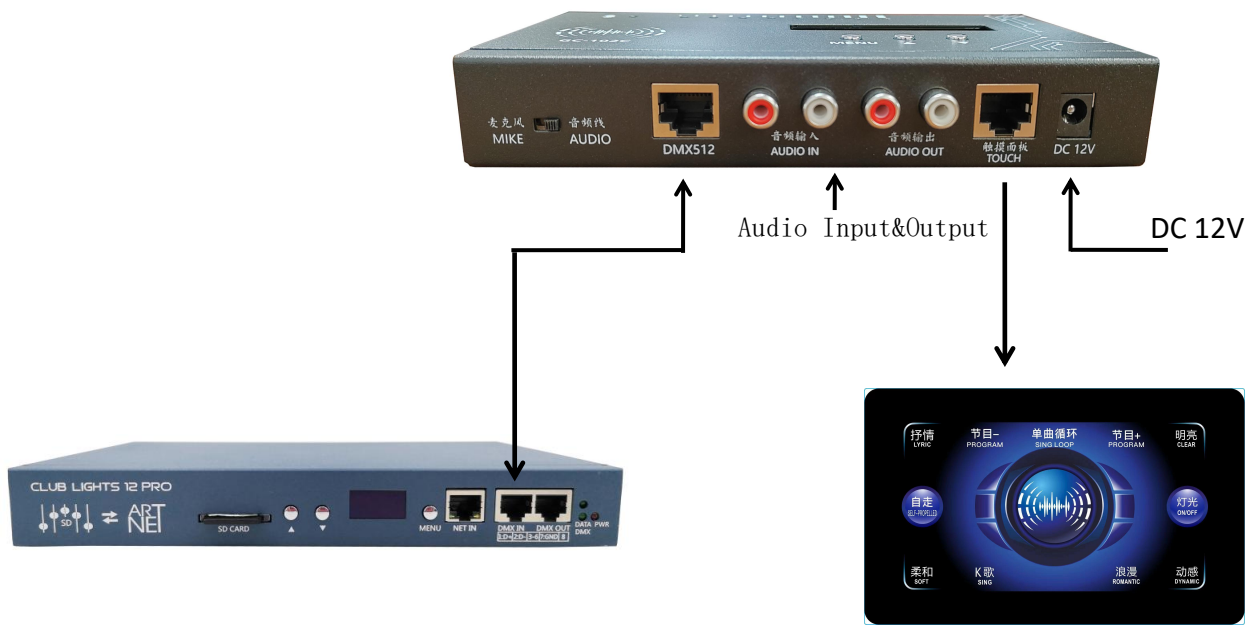
Voice control box interface



Front of voice control box



Connection method of voice control box



Sound source selection for voice control box

Switch to the left: microphone input  
Switch to the right: Audio cable input



## Parameter settings for voice control box

### Main interface



Press the MENU button, the first step is to set the MODE。



Select the voice control mode using the  $\triangle$  and  $\nabla$  keys, and it will automatically save once selected。 Press the MENU key again to switch to the next parameter。



This option is the sound light linkage mode, which automatically switches to the next program in the SD card when audio is recognized。



This option is voice controlled brightness mode. When there is no audio, the brightness is 0. When audio is recognized, the brightness immediately increases to the highest level。



This option is voice controlled speed mode. When there is no audio, the speed is at its lowest. When audio is recognized, the speed immediately increases to its highest。



This option is a dual mode of voice controlled brightness and speed. When there is no

audio, both brightness and speed are at their lowest, and when audio is recognized, they are immediately increased to their highest。



This option is in automatic loop mode, the SD card program will automatically loop and play, and the audio is invalid。



This option is for single loop mode, where you can select a program on the SD card to play a single loop. Audio is invalid。

**Press the MENU button again to switch to the next parameter 。**



This parameter is the brightness setting for playback, which can adjust the brightness of all playback, with fifteen levels of adjustable values。



This parameter is the playback speed setting, which can adjust the speed of all playback, with fifteen levels of adjustable values。



This parameter is the hold time (default 0.5 seconds), which is the playback hold time of each program after the audio is triggered in the audio-visual linkage mode。



This parameter is the audio sampling frequency band (default is low frequency 160Hz), used to set the frequency range for identifying audio。



This parameter sets the total number of programs to match the quantity in the SD card. How many programs are in the SD card? Here are the corresponding numbers set。



This parameter is used to set the program number to be played in single track mode. (This parameter is only valid in single loop mode )

## Instructions for using the voice control box

### Mode 1: Sound and light linkage



- The trigger light delay is adjustable.
- Mode selection: Audio Scene.
- The number of programs in the SD card, enter the corresponding number in the Scene option.
- In the programming of the light strip controller, the first 1-5 programs are set as default soft programs, the 6th program is bright and usually made as white light, and the 7th program starts as dynamic programs.
- **When there is no audio, programs 1-5 in the SD card are looped by default. When there is audio, programs starting from the 7th onwards are triggered.**

## Mode 2: Voice controlled brightness



- The trigger light delay is adjustable.
- Mode selection: Audio Bright
- The number of programs in the SD card, enter the corresponding number in the Scene option.
- Voice controlled brightness mode, SD card program loop playback. When there is no audio, the brightness is at its lowest, and when audio is recognized, the brightness immediately increases to its highest.

## Mode 3: Voice controlled speed



- The trigger light delay is adjustable.
- Mode selection: Audio Speed
- The number of programs in the SD card, enter the corresponding number in the Scene option.
- Voice controlled speed mode, SD card program loop playback. When there is no audio, the speed is at its lowest, and when audio is recognized, the speed immediately increases to its highest.

## Mode 4: Dual mode of voice controlled brightness and speed



- The trigger light delay is adjustable.
- Mode selection: Audio B+S
- The number of programs in the SD card, enter the corresponding number in the Scene option.
- Voice controlled dual mode, SD card program loop playback. When there is no audio, the speed and brightness are at their lowest. When audio is recognized, the speed and brightness immediately increase to their highest.

## Mode 5: Automatic Loop Mode (Audio Invalid)



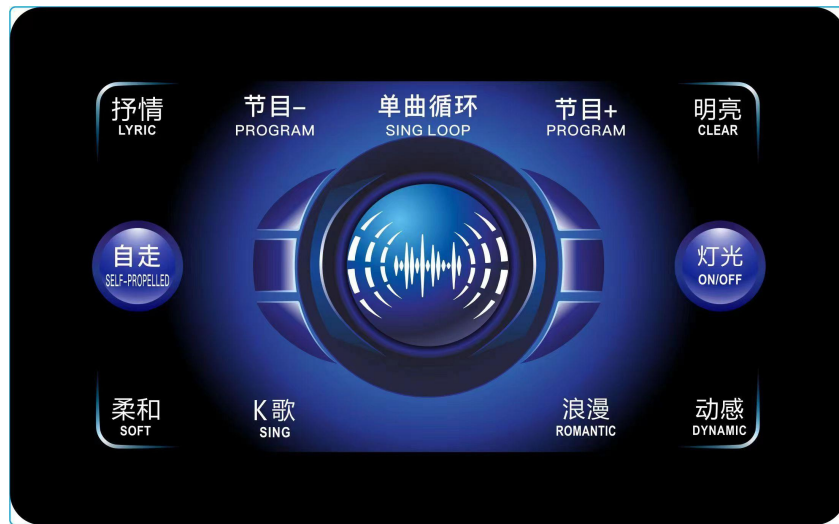
- Mode selection: Auto
- The number of programs in the SD card, enter the corresponding number in the Scene option.
- Automatic mode, the program in the SD card automatically plays in a loop, and the audio is invalid.

## Mode 6: Single Loop Mode (Audio Invalid)



- Mode selection: ONE Loop
- Scene ID to specify the playback of a program。
- Single track loop mode, specified to play a program single track loop through Scene ID, audio invalid。

## Touch Panel



- The touch panel is powered by 12V and is supplied from the voice control box through a network cable with a standard 568B cable sequence
- Touch **"LYRIC"** and the voice control box will command the controller to play the second program on the SD card in a loop
- Touch **'Soft'** and the voice control box will command the controller to play the third program on the SD card in a loop
- Touch **"SING"** and the voice control box will command the controller to play the fourth program on the SD card in a loop
- Touch **"Romantic"** and the voice control box will command the controller to play the fifth program on the SD card in a loop
- Touch **"CLEAR"** and the voice control box will command the controller to play the sixth program on the SD card in a loop (usually made into white light)
- Touch **"Dynamic"** and the voice control box will command the controller to follow the audio drum beats and play the programs from the 7th onwards on the SD card
- Touch **"ON/OFF"** to turn on and off the lights
- Touch **"SELF-PROPELLED"**, the voice control box will command the controller to enter full loop playback, and the audio is invalid
- Touch **"Single Loop"** to enter single mode. **"Program+"** and **"Program -"** can switch between programs on the SD card