Warning

1. **Verify Voltage Compatibility:** Ensure that the device is connected to the correct mains voltage as indicated on the rear panel.
Operate the unit only at the specified voltage to avoid damage.

2. **Avoid Foreign Objects:** Keep the device free from any insertions, especially metal objects, to prevent electric shock or device malfunction.

3. **Temperature Fluctuation Precautions:** If the unit experiences rapid temperature changes, such as being moved from a cold outdoor environment into a warm room, allow it to reach room temperature before use to prevent condensation.

4. **Spill Response:** In case of accidental spills of water or other fluids, immediately power off the unit and have it inspected by a qualified service workshop.

5. **Ventilation and Sunlight:** Ensure proper ventilation around the unit and avoid direct sunlight exposure to maintain optimal operating conditions.

6. **Cleaning Restrictions:** Refrain from using sprays to clean the unit, as they can damage the device and pose a risk of sudden ignition.

7. **Power Switch Operation:** Utilize the single power switch to control the device. Always cut off power before performing any maintenance or repairs.

8. **Avoid Placing Containers:** Do not place cups, flower vases, or any containers on top of the machine to prevent water leakage that could cause electrical leakage or damage.

Please follow these instructions carefully to ensure the safe and proper operation of your device.

Sinbosen®

One/Two CH Class D Amplifier Module
Built-in DSP controlled by PC

LED screen

Mute function

USB interface
（Connect to PC by USB cable）

Volume control

RS485 interface
(Connect to PC)

Select function on
LED screen

XLR signal input

XLR signal output

Speaker Output
(Remark: If operating on CH 1 alone,
the Speakon connector carries CH 2.)

Signal and Clip light of Out 1&2

Power On Light

Your Logo

Power in

Power out

Power Switch

Product size

Other Models

DM9.5

FEATURES

► Built-in 48K high-performance DSP processor with FIR function,
   RS485 networking or USB cable for adjustment.
► Bult-in LED screen display, easy to adjust function, such as Gain, Bridge,Delay and language.
► Speaker output: The module is 2channels, user can connect one channel to extra passive speaker.
► Power Supply: PFC Type 50-60Hz AC90~265V.
► Professional-grade audio CLASS D amplifier circuit.
► Fully sealed with its own shielding box, speakers can be installed without the need for a partition.
► Widely used in line array speakers, full-range and subwoofer combination sets.
   Such as Dual 8inch, 10inch, 12inch line array or full-range speaker, or 15inch, 18inch subwoofer.
► Built-in DSP Module, controlled by Computer for Equalizer, Delay, Volume and so on.
► With Temperature protection, short circuit protection, DC protection.

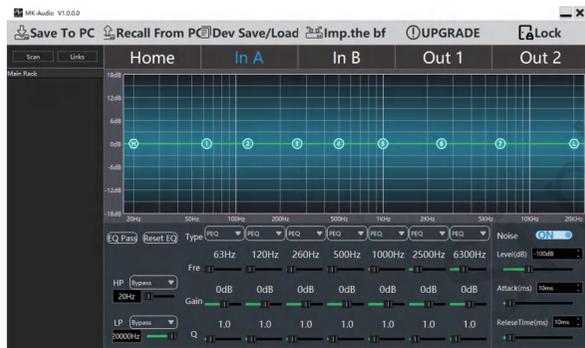## Package Contents

1 Piece amplifier Module
1 Piece Power cable
1 Piece Signal cable
1 Piece USB cable
1 Piece Male Powercon Connector
1 User manual

Input   Input equalizer setting, HF & LF Bypass.

Output   Output equalizer setting, HF & LF Bypass, FIR.

Front and Back Picture

Other models   DM9.5

Specification

Model No.		DM9.5	DM10.5	DM12.5	DM15.5	DM20	DM24	DM30
Output power 1 KHZ/EIA	Stereo 8 Ω	900W+500W	1000W+500W	1200W+500W	1500W+500W	1000W+1000W	1200W+1200W	1500W+1500W
	Stereo 4 Ω	1550W+850W	1800W+900W	2150W+900W	2700W+900W	1800W+1800W	2150W+2150W	2700W+2700W
	Bridge 8 Ω only; 4 Ω not supported.	/	/	/	/	2000 W	2400 W	3000 W
						One voice coil per channel. Do not parallel both to one channel.		
Frequency response (BYPASS-ON)		20 Hz - 20 kHz ± 0.5dB						
Input sensitivity		1.1V	1.2V	1.3V	1. 1V	1.2V	1.3V	1.3V
THD%: 1/8 RMS, 1KHZ		<0.05%	<0.05%	<0.05%	<0.05%	<0.05%	<0.05%	<0.05%
Slew rate(RMS,1KHZ)		>20V/μs	>20V/μs	>20V/μs	>20V/μs	>20V/μs	>20V/μs	>20V/μs
Dynamic Range		≥95dB	≥95dB	≥95dB	≥95dB	≥95dB	≥95dB	≥95dB
S/N ratio (A-weighted, RMS)		≥95dB	≥95dB	≥95dB	≥95dB	≥95dB	≥95dB	≥95dB
Voltage gain		34dB	34dB	34dB	34dB	34dB	34dB	34dB
Input impedance		Balance:20K Ω, unbalanced:10K Ω						
Output circuit design		SMPS+CLASS D						
Cooling system		Low-noise , Variable speed fans; air flow from front to the rear						
Power supply(PFC)		AC 90~265V ~50/60Hz						
Taps		Each channel has 512 taps. Two channels have 1024 taps in total.						
Dimensions (W×D×H)		142mm x 332mm x89mm						
Weight		2Kg	4Kg	4Kg	4Kg	4Kg	4Kg	4Kg

To connect with the Windows Computer, please use USB cable to connect with PC, or prepare one Converter USB to RS485/RJ45 cable to connect with PC. See below picture.
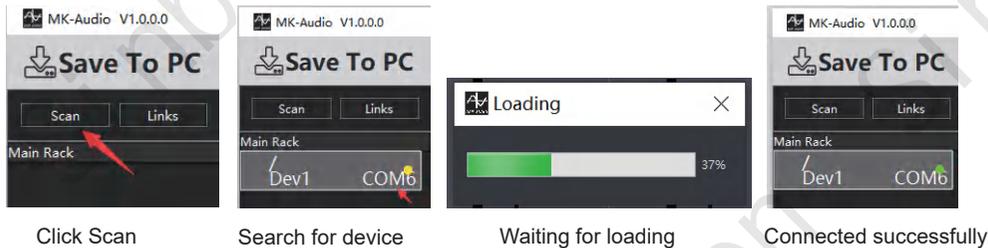This DSP software support for Windows system, not for iOS system.

Option 1
USB cable - PC
（*The usb cable is included in the package*）

Option 2
Network cable - Converter - PC
（*Users need to purchase additional*）

After connect cable with PC, turn on the software and see below steps:

Click Scan   Search for device   Waiting for loading   Connected successfully

Noted:
1) If the device fails to connect to the software, please close the software first and then reopen it to connect the device.
2) Please use our USB cable or buy our Converter to connect with PC.
3) Software download link:
https://icdn.tradew.com/file/201712/1572617/rar/8288973.rar
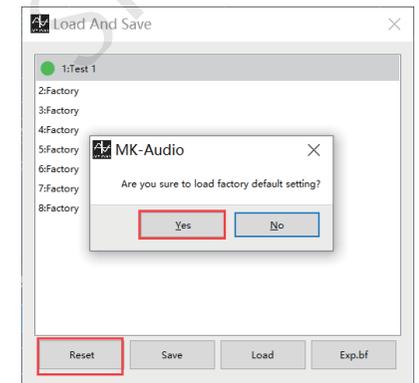
Dev Save/Load **Device Save / Load**
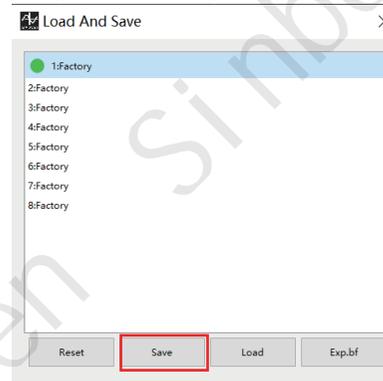
Click the "Save" button to save your presets from 1 to 8.
Note that the LED screen only shows 5 presets.
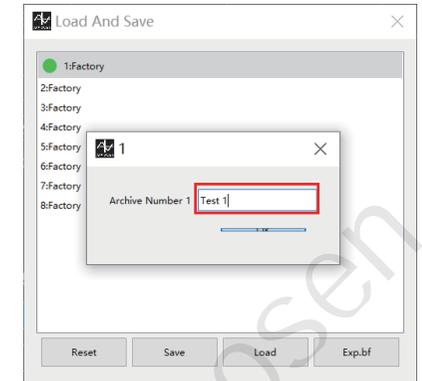
The user can edit the preset name.
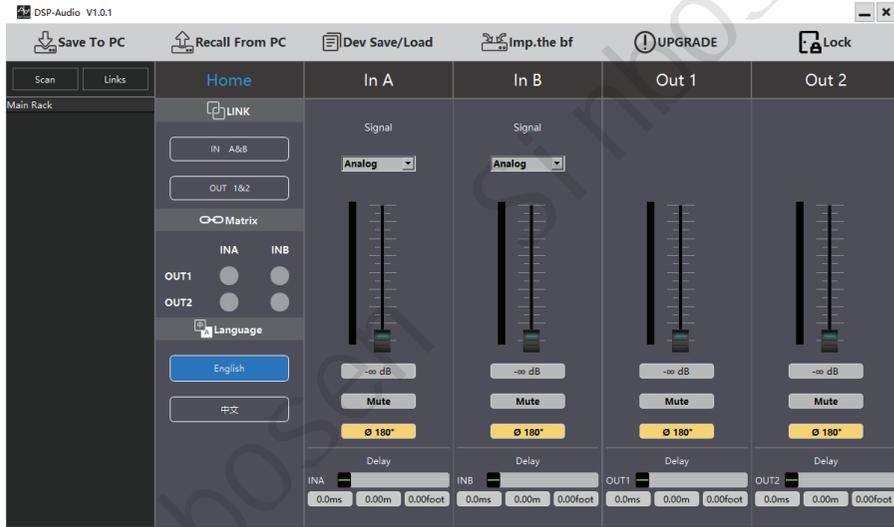Press "Enter" on your computer to complete the saving.
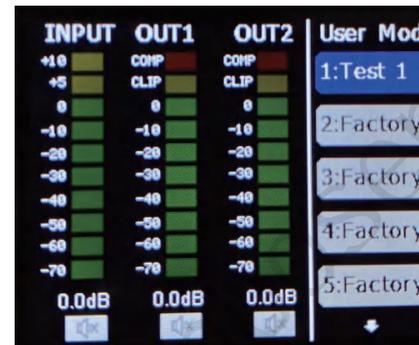
After user save the preset, the LED panel will show the data Synchronously.

Clicking the "Reset" button will restore factory settings and clear all setting parameters.
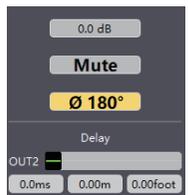
3

DSP Software function

Home Page Main control the Input and output volume, Delay or Link.

Link

After Click the
LINK OUT 1&2,
The output 1 and 2 data
will be synchronized.

Matrix

No need to adjust the Matrix,
as the amplifier module has
one signal input and two
speaker outputs.

Mute Function

Phase: Bridge setting

Delay setting
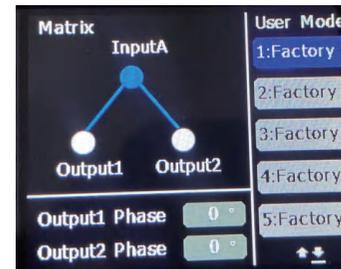

Language:
English & Chinese

LED Screen

Totally the Led Screen has 3 pages, [CONTROL] rotate right to the rightmost end and press the [icon] to turn to the next page.
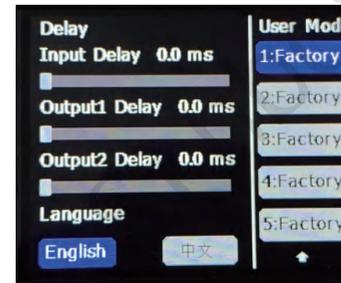
The software has 8 presets, but the Led screen just shows 5 presets.
If you want to adjust and save the presets, please do it on software.
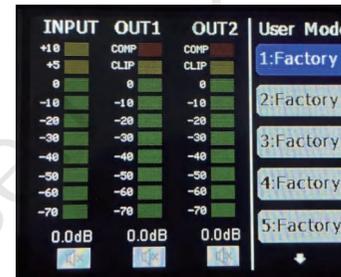
LED Screen Page 1
Adjust Gain function.

LED Screen Page 2
Adjust Matrix and Phase.

LED Screen Page 3
Adjust Delay and Language

Speaker cable connection

DM9.5 model connection

OUT1:(Red+Black-) 900W/8ohms, 1550W/4ohms
OUT2:(White+Black-) 500W/8ohms, 850W/4ohms

Other model connection

(DM10.5, DM12.5, DM15.5, DM20, DM24, DM30)

The OUT1 connection is 1+ 1-,
The OUT2 connection is 2+ 2-.

Bridge function

Before set the Bridge, please noted:
1. One voice coil per channel. Do not parallel both to one channel.
For example, When connecting dual 18" subwoofer, Please connect each 18-inch driver to a separate channel—do not parallel to bridge.
2. For top speakers, amplifier power should normally be 1.5 times the speaker power.
3. For subwoofers, amplifier power should normally be twice the speaker power.
You can adjust the connection according to your speaker power.

Step 1: Edit the Output 2 Phase to 180°, you can do it on LED Screen or on software Home page.
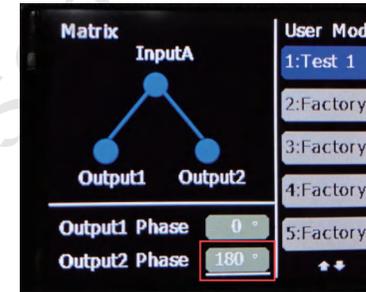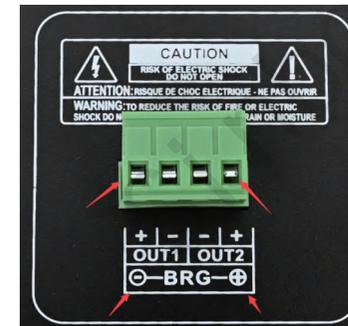

LED Panel
Page 2
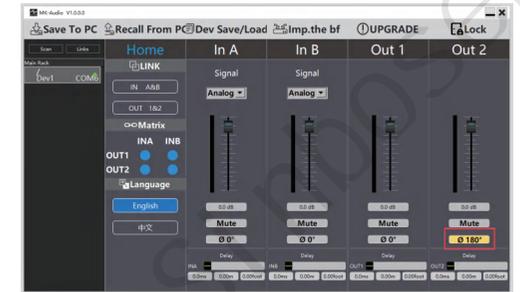
Software
Home page

Step 2: Connect your speaker cable to correct connection: BRG ⊖ ⊕
See below image.

After setting the bridge function, you can change the amplifier module power.

For example,
the model DM30 has a power rating of 1500W per channel at 8 ohms (1500W*2CH 8ohms).

After setting the bridge mode, the power will change to 3000W in a single channel at 8 ohms (3000W*1CH 8ohms).