

KA SERIES  
AV&KARAOKE POWER AMPLIFIER

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OWNER MANUAL

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*Version:1.0*

## Safety Information



**CAUTION:** To reduce the risk of electric shock, do not remove any cover (or the rear section). No user serviceable parts inside. Refer servicing to qualified service personnel only.

**WARNING:** To reduce of fire or electric shock, do not expose this appliance to rain and moisture. Electrical equipment should NEVER be kept or stored in damp environments.



This symbol, wherever appears, is intended to alert the user to the presence of un-insulated dangerous voltage within the appliance's enclosure that may be of sufficient magnitude to a risk of electric shock.



This symbol, wherever appears, is intended to alert the user to the presence of important operating and maintenance (servicing) instruction in the literature accompanying this appliance.



This symbol means: indoor use only.



This symbol means: Read instructions.

## Safety Instructions

- 1. Read Instructions** → All the safety and operating instructions should be read before this products is connected and used.
- 2. Retain Instructions** → The safety and operating instructions should be kept for future reference.
- 3. Heed Waning** → All warnings on this appliance and in these operating instructions should be followed.
- 4. Follow Instruction** → All operating and other instructions should be followed.
- 5. Heat, Water and Moisture** → Do not place this appliance to close to any high heat sources such 1s radiators. Also this appliance should be kept away from direct contact with liquids.
- 6. Ventilation** → The appliance should be situated so that it's location or position does not interfere with it's proper ventilation. For example, the appliance should not be situated on a sofa, bed, or similar surface that may block the ventilation opening; or keep the appliance away of those objects such 1s newspapers, carpet which may cover the ventilation opening or impede the flow of air through the ventilation opening.
- 7. Power Source & Power Cord** → This appliance should be connected to a power supply only of the type described in these operating instructions, or marked on the unit.

Be sure connect the appliance to a mains power socket which with a protective grounding connection.

Power supply cord should be routed so that the are not likely to be walked upon or pinched by the items placed on or against them. When removing the cord from a power outlet be sure to remove it by holding the plug attachment and not by pulling on the cord.

Check the total maximum power of your AC wall outlet and make sure it has the enough power to match the Power Consumption of this appliance, otherwise you could overload the wall outlet, which could cause fire.

8. **Internal / External Voltage Selectors** → Internal or external voltage selector switches, if any, should only be reset and re-equipped with a proper plug for alternative voltage by a qualified service technician. Do not attempt to alter this yourself.
9. **Object & Liquid Entry** → Take care to avoid any objects falling into or liquids are not spilled in to the inside of the appliance.
10. **Cleaning** → Unplug the appliance first and clean only with a dry cloth.
11. **Non-use Period** → The power cord of the appliance should be unplugged from the outlet when left unused for long periods of time.
12. **Unpacking & Setup** → Please check your appliance for any damage after unpacking(before connecting) and contact your dealer in case of any related complains. Take care of choosing your installation place and the correct AC connection. If built in to a case, be aware that the depth and the weight of some kind appliance(such as Amplifier) does require an additional fixing on the backside or the use of rack shelf supports. Never mount the amplifier in a rack just by fixing it on the front plate – Manufacturer takes no responsibility in this case.
13. **Damage Requiring Service** → Servicing is required when the appliance has been damaged in any way, such as power cord or plug is damaged, liquid has been spilled or objects have fallen in the appliance, the appliance has been exposed to rain or moisture, does not operate normally, or has been dropped. Refer all servicing to qualified service personnel or contact your dealer. Do not attempt to repair by yourself.

**Front panel:**

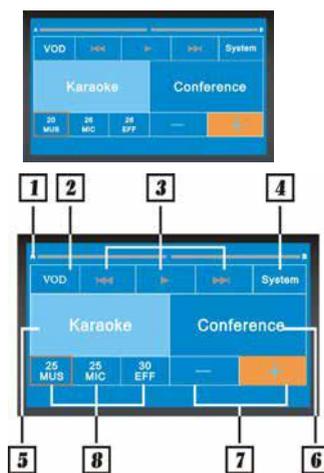


**1. Mains Power Switch**

When press the switch, the soft start circuit run for avoiding surge strike. In about 3-4 seconds, there will be a clicking denote that soft start finished. And more 1-2 seconds later, there will be another “clicking”, the amplifier is connected with speaker and ready to work.

**2. touch-screen**

This display is touchable. Details and information are shown in the figure below :



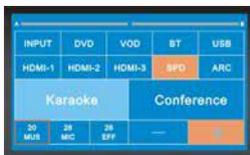
**① Boot Display Interface:**

Device default display interface when power switch is switched on.for figure below :

- (1) : Wireless MIC signal indicates that when the device detects wireless MIC, the display bar is highlighted ;
- (2) : Display the current input signal source. When you touch this area to enter the input signal selection interface ;
- (3) : Bluetooth/USB playback, pause, music selection. When Bluetooth/USB signal source is selected,  it will be highlighted ;
- (4) : Screen calibration When the operation area of the screen is offset, touch the area for 3 seconds and enter the screen calibration interface, then use the ballpoint pen to touch the circles appearing on the screen in turn to calibrate ;

- (5) : Choice of Singing Mode ;(6) : Selection of conference mode ;(7) : Volume regulation of music, microphone and effect.
- (8) : Music, microphone, effect volume display and volume adjustment channel selection. After touching the corresponding

area, you can touch the '+'/'-' in the item to adjust the volume; long press '+' on this area can silence the channel (when the font is yellow), and long press again can deactivate the mute



② **Enter Selection Interface:** This interface will pop up when you touching the VOD function.

(1) When the corresponding signal source is selected, it will immediately return to the boot interface, and the selected signal source will be highlighted;

(2) Automatically return to the boot interface, If there is no operation for 5 seconds.



③ **Singing mode selection interface:** This interface will pop up when you touching the singing function.

(1) When the corresponding signal source is selected, it will immediately return to the boot interface, and the selected signal source will be highlighted;

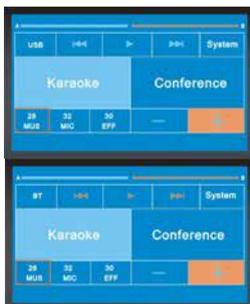
(2) Automatically return to the boot interface, If there is no operation for 5 seconds.



④ **Meeting mode interface:** This interface will pop up. After touching the meeting function.

(1) When the corresponding signal source is selected, it will immediately return to the boot interface, and the selected signal source will be highlighted

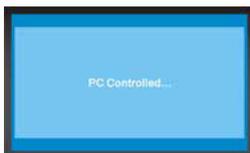
(2) Automatically return to the boot interface, If there is no operation for 5 seconds.



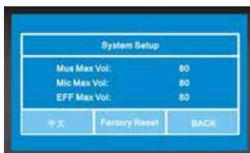
⑤ **USB and BT Interface:** When the device enters USB or Bluetooth connection, The two interfaces will pop up respectively.

1. When the device is connected to the USB disk, it will prompt to insert the USB disk. In the main interface [input selection] select [USB], the interface - USB input mode will pop up.

2. Search the Bluetooth name "K-DSP Audio" of the phone and other devices. After Bluetooth connection, select "Bluetooth" in the main interface [input selection] in the main interface, and the interface - Bluetooth input mode will pop up



⑥ **PC On-line Interface :** This interface will pop up. After touching the PC On-line function. If online debugging is required, first install the driver, then insert the B-type USB (male port) cable into the USB port on the panel of the machine. When the device is connected to the PC, this interface will pop up, and finally open the debugging software to debug the machine. (Note: please contact the installation personnel to obtain the driver and debugging software of the machine. The machine is not equipped with B-type USB male cable)



⑦ **System Setup Interface :** This interface will pop up.

After touching the system setup function.



⑧ **Restore The Factory Setting Interface**

### 3. PC interface

Operate this device by connecting to a computer.

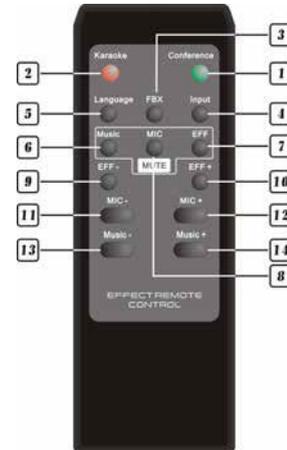
### 4. USB interface

For playing USB music.

Download the 3in1 karaoke app or 3in1 karaoke computer professional software on the official website(www.deton.com), connect the power amplifier with the B-type USB data cable, and call up your unique sound quality

### remote control

- 1、Conference button;
- 2、Karaoke button
- 3、FBX button;
- 4、Input Mode Selection button
- 5、Language Selection button;
- 6/7/8、Mute button for music&mic&eff;
- 9/10、The button for Effect Volume Reduction or Increase
- 11/12、The button for Microphone Volume Reduction or Increase
- 13/14、The button for Music volume Reduction or Increase



### REAR PANEL : KA 2450



#### 1. MAINS POWER SUPPLY CORD

#### 2. CH-1/CH-2 BINDING POST OUTPUT

Used by a standard binding connector. Red:+ black:-

3.HDMI(1-3) port : Used to connect HDMI compatible playback devices and input video / audio signals.

4. HDMIOUT port : Used to connect HDMI compatible television and output video / audio signals.

5.CENTER/SUB output port.

6.VOD input port.

7.VOD output port : This output is in parallel with the VOD input inside the device.

8.DVD input port

9.MIC1/MIC2 Gain control

10.MIC1/MIC2 input port

11.Wireless MIC receiving antenna

12.OPTICAL Fiber Interface .

### KA 2450



TECHNICALPARAMETER OF KASERIESAMPLIFIER	
MODEL	KA 2450
OutputPower (EIA1KHz 1%THD)	2x450w/8Ω
	2x680w/4Ω
OutputConnections	Binding
FrequencyResponse	20Hz-30kHz, ±1.5dB
InputSensitivity	0.5V
S/NRatio	≥95dB
THD	≤0.2%
Crosstalk Rated Output/8Ω/1kHz	> 70dB
DampingFactor/8Ω/1kHz	> 240
SlewRate	15V/uS
InputImpedance	10kΩ/un-Balanced
Protection	SoftStart, ShortCircuit, Limiter, DCFault, AC Line Fuse, ThermalCut
MainsPower supply	AC:220-230V 50Hz