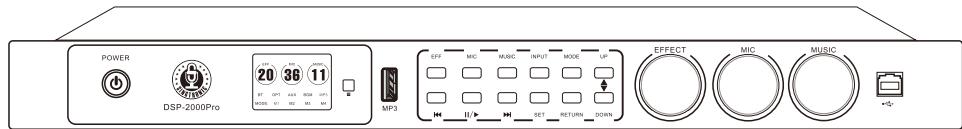


# USER MANUAL



DIGITAL KARAOKE PROCESSOR

## Foreword

Thank you for choosing and purchaseing our professional DSP processor!

Please read this manual carefully before using, so that you can better use this product and play the excellent effect of this machine.

After you have read this instruction manual, please keep it for future reference.

After reading all the contents of this manual, it is recommended that the whole system be installed and connected before operation.



### Warning

The triangle is marked with a downward Arrow of lightning to warn the user that there is a high-voltage device in the unit, whose voltage is dangerous enough.

Do not open the cover of the machine unless you are a professional

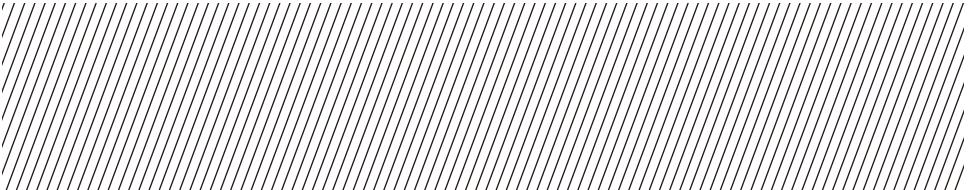
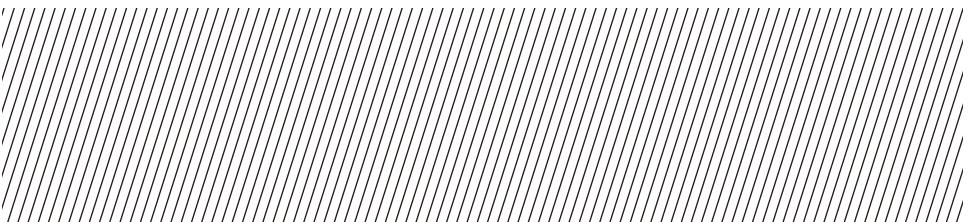


### Pay Attention

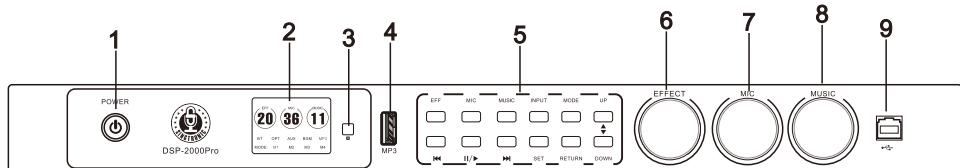
There is an exclamation mark in the triangle to remind the user that the machine has important operation requirements and instructions

It is recommended not to use the machine for a long time, or when there is lightning, please unplug the power of the machine to avoid accidents

## Product overview

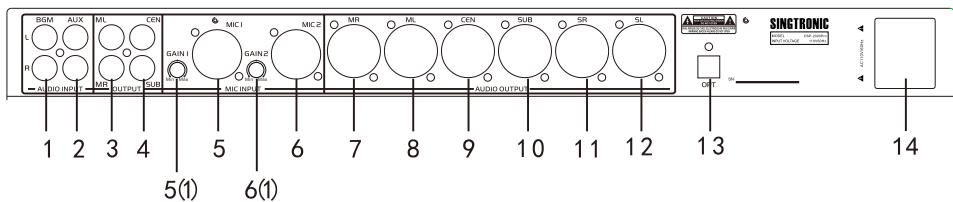
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- Self develop 3xDSP digital processing technology
  - Optional 4 type of Ex-factory professional mode
  - 5.1 out put channel.
  - It has raising and falling tonal (tonal modification) function , raising tonal 5 levels , falling tonal 5 levels
  - Music , microphone tonal adopt 7 segments PEQ adjusted .
  - Effect , centre-channel output , subwoofer output all have 3 segments PEQ .
  - Self develop professional feedback suppressed technology .
  - Power on delay and power off mute function , prevent impact power amplifier.
  - Music , microphone , effect power on VOL setting and MAX VOL lock function
  - Starting up music , microphone , effect mode setting
  - USB toning software controlled interface
  - Exclusive use of digital and analog audio processing circuits, enabling singers to experience unprecedented K song enjoyment!
  - The latest dual-DSP superimposed effect processing circuit, easy and natural singing, more delicate sense of space
  - Professional layout, circuit more clearer and more coordinated, and the overall look and feel is more perfect

## Front panel diagram



- 1.Power Turn the power on or off
- 2.Display screen output information and parameters which being adjusted
- 3.Infrared terminal receiver Remote control port
- 4.MP3 MP3 USB interfacer
- 5.Function key
- Effects menu effects parameter key
  - MIC menu mic equalizer parameter key
  - Music menu music equalizer parameter key
  - Input menu Switch Sound Source Input:Bluetooth/Optical/AUX/BGM/MP3
  - Mode menu invoke parameter mode:M1~M4
  - Settings menu system menu settings, long press enter middle, ultra-low, around the output menu parameters adjustment
  - Up Up select
  - Down Down select
  - Return Return select
  - ◀ ▶ Previous song / next song
  - II/▶ MP3 play or stop
- 6.Effect volume The effect volume and menu parameters adjustment
- 7.MIC volume Microphone volume adjustment
- 8.Music volume Music volume adjustment
- 9.USB port Connect to computer for controlling the machine by software

## Rear panel diagram



1	BGM	BGM audio input
2	AUX	AUX audio input
3	ML/MR	Left and right output of main channel
4	CEN/SUB	Centre/SUB audio output
5	MIC1 Input port	MIC1 input
5(1)	MIC1 gain	MIC1 gain
6	MIC2 Input port	MIC2 input
6(1)	MIC2 gain	MIC2 gain
7	MR	Main output right channel
8	ML	Main output left channel
9	CEN	Centre audio output
10	SUB	SUB audio output
11	SR	Surround output right channel
12	SL	Surround output left channel
13	OPT	Optical input
14	Power input	Power cord socket, connect to power supply

## 1. Music section

01:Music EQ	MUSIC EQ /QEQQ1: 0.3--15
02:Musical EQ gain	MUSIC EQ /GEQ01 : -12dB---+12dB
03:Music EQ frequency	MUSIC EQ /VEQ01: 20Hz--20KHz
04:Musical balance	PEQ EQ 1 — EQ 7
05:Music tone	FALLING/RESTTING/RAISING
06:Music input limit	OFF/0.775V/1V/1.2V/1.75V/2V
07:Music exciter	EXCITER ON/OFF

Press the music button, then “◀▶”select the parameters to be adjusted and rotate the “EFFECT” knob to adjust the parameters.

## 2. Microphone section

01:Microphone equalization	PEQ EQ 1 --EQ 7
02:Microphone low cut	MIC LOW CUT :20Hz -- 200Hz
03:Microphone feedback suppressor switch	MIC FEED BACK : FB1、FB2、FB3
04:Microphone EQ	MIC EQ /QEQQ1: 0.3--15
05:Microphone EQ gain	MIC EQ /GEQ01 : -12dB---+12dB
06:Microphone EQ frequency	MIC EQ /VEQ01: 20Hz--20KHz

Press the MIC button, then “◀▶”select the parameters to be adjusted and rotate the “EFFECT” knob to adjust the parameters.

### 3. Effect section

01:Echo and reverb equalization	PEQ EQ 1 -- EQ 3 (Three-stage equilibrium for echo and reverb)
02:Echo high cut	4KHz--18KHz
03:Echo low cut	20Hz--1001Hz
04:Echo pre-delay	0ms--20ms
05:Echo time	0ms -- 400ms
06:Echo repeat	0%--100%
07:Reverb mode	Reverb effect
08:Reverb pre-delay	0ms --100ms
09:Reverb time	0s - 10s

Press the EFF button, then "◀▶" select the parameters to be adjusted and rotate the "EFFECT" knob to adjust the parameters.

### 4. Centre,SUB,Surround section

01:Centre,SUB equilibrium adjustment	PEQ EQ 1- EQ 3 (Centre 3-segment equilibrium, SUB 3-segment equilibrium)
02:Music to center volume	0 - 80
03:MIC to center volume	0 - 80
04:Effect to center switch	Turn on / off
05:Sub high cut	20Hz--400Hz
06:Sub low cut	20Hz--400Hz
07:Sub Phase	0° --180°
08:Total sub volume	0 - 80
09:Surround equilibrium adjustment	PEQ EQ 1- EQ 5
10:Music to surround volume	0 - 80
11:Microphone to surround volume	0 - 80
12:Effect to surround volume	Turn on / off

Long press the settings button for three seconds to enter the menu, and then "◀▶" select the parameters to be adjusted and rotate the "EFFECT" knob to adjust the parameters

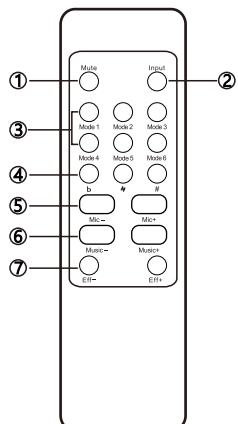
## 5. Setting part

01:Microphone start up volume	0 - 80
02:Microphone Max volume	0 - 80
03:Music start up volume	0 - 80
04:Music Max volume	0 - 80
05:Effect start up volume	0 - 80
06:Effect Max volume	0 - 80
07: Language selection	English/Chinese, Rotate the EFFECT knob to switch to English or Chinese
08:Restore factory settings	Rotate the "EFFECT" knob to enter restore factory setting page, press navigation key to choose "OK" or "cancel", then press "RETURN" key to confirm the operation

## 6. Auxiliary function (Connection Software)

With the mouse and keyboard inactive, the current effects are automatically backed up to the data folder in the software installation directory. Note: Automatic backup can be set time 1-5 minutes, if no inactive for a long time it will overwrite data backup, until the last state.

## 7. Remote control function



- 1、Mute button
- 2、Input signal select button
- 3、Mode selection buttons
- 4、Music tone: falling/resetting/raising
- 5、Microphone volume increase or decrease
- 6、Music volume increase or decrease
- 7、Effect volume increase or decrease

## Technical Specification

<b>The music section</b>	
Level	775mVrms
Frequency response	20Hz--20KHz
THD	<0. 1
SNR	>80dB
PEQ	1--7Segment
<b>Microphone section (MIC Input)</b>	
Level	50mVrms
Frequency response	20Hz--20KHz
THD	<0. 1
SNR	>80dB (Straight through)
PEQ	1--7Segment
<b>Center section</b>	
Level	775mVrms
Frequency response	20Hz--20KHz
THD	<0. 003
SNR	>80dB
PEQ	1--3Segment
<b>SUB section</b>	
Level	775mVrms
Frequency response	20Hz--20KHz
SNR	>80dB
<b>Surround section</b>	
Level	775mVrms
Frequency response	20Hz--20KHz
THD	<0. 003
SNR	>80dB
PEQ	1--5Segment

