

OWNER'S MANUAL

6CH Digital Karaoke Pre Amplifier



Thank you for purchasing our products.
Please read the owner's manual thoroughly prior to using the system.
Please keep the manual for future reference.

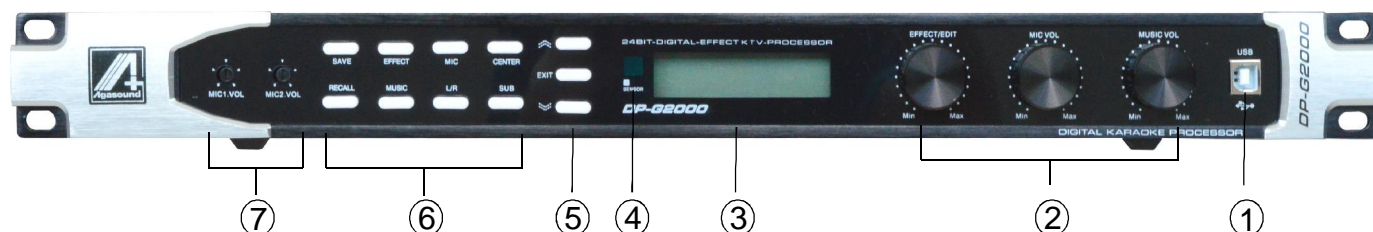
INDEX

FUNCTION	1
FRONT PANEL	1
REAR PANEL	2
REMOTE CONTROLLER	3
FUNCTION DIAGRAM	3
OPERATION GUIDANCE	4-11
PC SOFTWARE SETUP AND ONLINE STEP	12-19
PC SOFTWARE WINDOW	20-27
SPECIFICATION.....	28
ACCESSORIES.....	28
EXTEND REMOTE CONTROL PROTOCOL.....	29-31
SAFETY	32-33

Function

- * 5 MIC input, with independent gain control. MIC channel with master volume control, mute, style choice low-cut, 9 band PEQ, BBE, limiter, noise gate, phase, 6 class feedback suppressor.
- * MIC effect has master volume control, limiter; Echo with 5 band PEQ and stereo and mono mode can be chosen, delay and repeat can adjust separately. Reverb has pre delay, time, BBE, high cut, fullness effect adjust.
- * 2 stereo music input can choose automatic or manual, DVD and BGM with separate input volume control.
- * Music channel with master volume control, mute, low-cut, 6 band PEQ, limiter. BBE, noise gate.
- * Output included main output L/R, center, sub-woof
- * Main output L/R with separate volume control, 5 band PEQ, L/R delay, phase.
- * Center output with Voice/Music ratio adjust, separate volume control, 4 band PEQ, delay, phase.
- * Sub-woof output with low-cut, high-cut, 4 band PEQ, separate volume control, AGC (automatic gain control), MIC music ratio delay, phase.
- * 24-bit, 48kHz sampling rate, Σ - Δ AD/DA convertor, 32 bit DSP chip.
- * 2*16 LCD display, customized light-key in one design, made the operation more fast and convenient.
- * 1 factory presets (KTV1) and 16 user presets (U01-U16), there are several recommend effect parameter on the software menu
- * USB, RS232 control port, IR function.
- * Save and recall the presets file, download and upload the data available
- * Lock function for front panel and PC, power interrupt memory function, made the system more safety.
- * PC software selectable for Chinese and English

Front Panel



- ① **USB port**
connect the computer with the PC software to control the device
- ② **Effect/ Mic/ Music Master Volume Adjust**
Control effect and Mic/Music volume
- ③ **LCD Display**
Show all the operation menu.
- ④ **IR Reception**
- ⑤ **Main Menu Page Turning Key, Exit Key**
Enter edit menu, press "▲▼" to turn the page, press "EXIT" to exit.

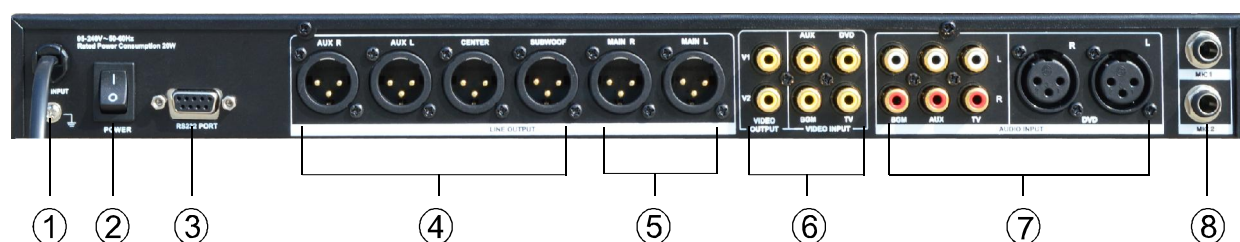
⑥ **Main Menu Control Button**

Edit Mic, Music, Effect, L/R, Aux, Center, Sub, save and recall user and factory preset

⑦ **Mic Input Gain Control**

Control Mic 1,2 input gain.

Rear Panel



① **Power Cord**

Power input: 90V~250V, 50~60Hz.

② **Power Switch**

③ **RS232 Interface**

Connect with PC/KTV, remote control.

④ **Stereo AUX, center, sub woofer output**

Connect with stereo AUX, center, sub woofer amp system.

⑤ **Main output**

L/R balanced output, connect with main amp system.

⑥ **Media input and output**

media and audio in-phase input and output system.

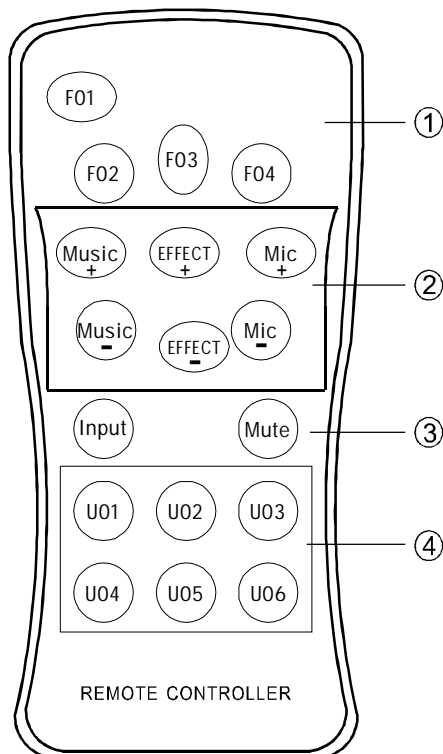
⑦ **Audio Input**

DVD, TV, AUX, BGM audio input port, can be switched to automatic or manual.

⑧ **MIC1/2 Input Socket**

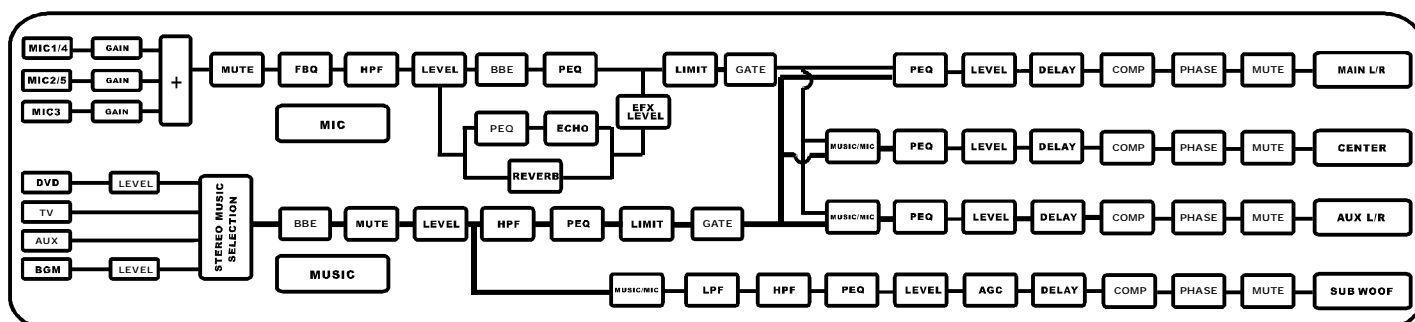
Plug with wired and wireless Mic input signal.

Remote controller



- ① **Normal Preset Control Key**
F01 Can be switched to KTV1 factory preset mode
- ② **Volume Control Key**
Adjust music, effect, Mic volume
- ③ **Input switch, Lock and Mute Control Key**
Input key can switch audio input channel and mode, Mute key control mute.
- ④ **User Preset Mode Switch Key**
U01-U06 is user preset mode, you can recall any mode to use.

Function Diagram



Operation Guidance

MAIN MENU	
<div>KTV1 M: -60.0</div> <div>E: 50 MIC: -60.0</div>	After power on, the LCD will show the preset information. KTV1 factory preset and 16 user preset: U01-U16 can be chosen. "M" shows the current music volume, "E" shows the current effect value, "MIC" shows the current MIC master volume.
SAVE KEY	
<div>Store preset</div> <div>U01 Default</div>	Press the save key can save the preset program, choose the saving position U01-U16 by adjust the encoder "EFFECT/EDIT".
<div>Preset Naming</div> <div>[Default]</div>	continue to press "EFFECT/EDIT" can edit the name of the file that you want to save.
<div>preset Naming</div> <div>Saving...</div>	until you can see "Y", then confirm to save.
RECALL KEY	
<div>Load Preset</div> <div>F01 KTV1</div>	Press the recall key the first time and turn "EFFECT/EDIT" encoder, you can transfer the preset program U01-U16 or factory preset program: F01, press again will confirm to transfer.
EFFECT KEY	
<div>ECHO GAIN: 60</div> <div>MODE: STEREO</div>	Press "EFFECT" the first time enter ECHO volume and mode choose window: gain scale is 0-100. mono and stereo these two mode can be chosen. the below operation takes stereo mode for example, when mono mode, the functions and operation steps are the same except there is a repeat and delay can be adjust
<div>LEFT ECHO</div> <div>REP: 52% T: 199ms</div>	Press "▼" the first time can adjust left echo: repeat scale is 0-100%, delay scale is 0-400ms
<div>RIGHT ECHO</div> <div>REP: 52% T: 199ms</div>	Press "▼" the second time can adjust right echo: repeat scale is 0-100%, delay scale is 0-400ms
<div>ECHO PHASE</div> <div>0</div>	Press "▼" the third time enter ECHO phase adjust window: 0 and 180 can be chosen
<div>RVB RPEDLY: 60ms</div> <div>TIME: 30ms G: 40</div>	Press "▼" the fourth time enter REVERB parameter adjust window: Pre delay scale is 0-250ms; Time scale is 0-4ms, Gain scale is 0-100.
<div>REVERB PHASE</div> <div>0</div>	Press "▼" the fifth time enter REVERB phase adjust window: 0 and 180 can be chosen.
<div>RVB EXVITER: 40</div> <div>HC: 14K25 L: 125.0</div>	Press "▼" the sixth time can adjust REVERB exciter and high cut and low cut parameter: exciter scale is 0-70; high cut scale is 2K-20K; low cut scale is 20Hz-400Hz.
<div>EFX DOUBLE</div> <div>10%</div>	Press "▼" the seventh time can adjust thickness: thickness scale is 0-100%

Operation Guidance

EFX LIMIT 100	Press “▼” the eighth time can adjust effect limiter: the scale is 0-100.
EFX EQ1 Q: 0.59 PK F: 32.7 G: 0.0	Press “▼” the ninth time can adjust effect PEQ1: include Q value, Frequency, Filter style and adjustable gain parameter, press“EFFECT/EDIT” one time can switch to every parameter bar, turn to change the parameter.
EFX EQ2 Q: 0.59 PK F: 125 G: 0.0	Press “▼” the tenth time can adjust effect PEQ2.
EFX EQ3 Q: 0.59 PK F: 500 G: 0.0	Press “▼” the eleventh time can adjust effect PEQ3.
EFX EQ4 Q: 0.59 PK F: 2K00 G: 0.0	Press “▼” the twelfth time can adjust effect PEQ4.
EFX EQ5 Q: 0.59 PK F: 8K00 G: 0.0	Press “▼” the thirteenth time can adjust effect PEQ5.
MUSIC KEY	
MUS EQ1 Q: 1.40 PK F: 59.7 G: 0.0	Press “MUSIC” the first time enter music PEQ setting window: include Q value, frequency, filter style and adjustable gain parameter, press“EFFECT/EDIT”one time can switch to every parameter bar, and turn to change the parameter.
MUS EQ2 Q: 1.40 PK F: 161.2 G: 0.0	Press “▼” the first time can adjust music PEQ2.
MUS EQ3 Q: 1.40 PK F: 406.1 G: 0.0	Press “▼” the second time can adjust music PEQ3.
MUS EQ4 Q: 1.40 PK F: 1K10 G: 0.0	Press “▼” the third time can adjust music PEQ4.
MUS EQ5 Q: 1.40 PK F: 2K30 G: 0.0	Press “▼” the fourth time can adjust music PEQ5.
MUS EQ6 Q: 1.40 PK F: 6K20 G: 0.0	Press “▼” the fifth time can adjust music PEQ6.
MUS EQ7 Q: 1.40 PK F: 15K63 G: 0.0	Press “▼” the sixth time can adjust music PEQ7.
MUS LIMIT +12.0dB	Press “▼” the seventh time can adjust the music gain limited parameter: the scale is -60dB~+12dB.

Operation Guidance

MUS LOW CUT BYPASS 19.7HZ	Press “▼” the eighth time can adjust music low cut parameter: the slope can choose BYPASS/BUTTERWORTH/BESSEL/LINK-6dB--24dB, frequency scale is 20Hz-20kHz.
INPUT SELECT AUTO	Press “▼” the ninth time can choose music input manually or automatically: include AUTO,DVD,TV,AUX,BGM.
DVD GAIN 0.0dB	Press “▼” the tenth time can adjust DVD input level: the scale is -60dB~0dB.
BGM GAIN 0.0dB	Press “▼” the eleventh time can adjust BGM input level: the scale is -60dB~0dB.
MUSIC BBE OFF	Press “▼” the twelfth time can choose music BBE exciter on or off.
MUSIC GATE ON	Press “▼” the thirteenth time can close and open music noise gate: ON is open, OFF is close
MIC KEY	
MIC EQ1 Q: 1.60 PK F: 65.5 G: 0.0	Press“MIC”the first time can enter MIC PEQ setting window: include Q value, frequency, filter style and adjustable gain parameter, press“EFFECT/EDIT” one time can swith to every parameter bar, and turn to change parameter.
MIC EQ2 Q: 1.60 PK F: 119.4 G: 0.0	Press “▼” the first time can adjust MIC PEQ2.
MIC EQ3 Q: 1.60 PK F: 217.6 G: 0.0	Press “▼” the second time can adjust MIC PEQ3.
MIC EQ4 Q: 1.60 PK F: 406.1 G: 0.0	Press “▼” the third time can adjust MIC PEQ4.
MIC EQ5 Q: 1.60 PK F: 691.1 G: 0.0	Press “▼” the fourth time can adjust MIC PEQ5.
MIC EQ6 Q: 1.60 PK F: 1K10 G: 0.0	Press “▼” the fifth time can adjust MIC PEQ6.
MIC EQ7 Q: 1.60 PK F: 1K66 G: 0.0	Press “▼” the sixth time can adjust MIC PEQ7.
MIC EQ8 Q: 1.60 PK F: 2K70 G: 0.0	Press “▼” the seventh time can adjust MIC PEQ8.

Operation Guidance

MIC EQ9 Q: 1.60 PK F: 4K81 G: 0.0	Press “▼” the eighth time can adjust MIC PEQ9.
MIC EQ10 Q: 1.60 PK F: 8K57 G: 0.0	Press “▼” the ninth time can adjust MIC PEQ10.
MIC EQ11 Q: 1.60 PK F: 15K63 G: 0.0	Press “▼” the tenth time can adjust MIC PEQ11.
MIC IN PHASE 180	Press “▼” the eleventh time can adjust MIC input phase parameter: the scale is 0 and 180.
MIC LIMIT + 12.0dB	Press “▼” the twelfth time can adjust MIC gain limited parameter: the scale is -60dB~+12dB.
MIC LOW CUT L/R-24dB 45.2Hz	Press “▼” the thirteenth time can adjust MIC low cut parameter: the slope can choose BYPASS/BUTTERWORTH/BESSEL/LINK-6dB--24dB, frequency scale is 20Hz-20kHz.
MIC FEEDBACK Leve1 1	Press “▼” the fourteenth time can set MIC feedback killer shift, 6 class feedback effect in total.
MIC EXCITER ON	Press “▼” the fifteenth time can open and close BBE exciter: ON is open, OFF is close
MIC GATE OFF	Press “▼” the sixteenth time can open and close MIC noise gate: , OFF is default close, ON is open
L/R KEY	
L/R GAIN 0.0dB	Press “L/R” enter main output gain adjust window, the scale is -60dB~+6dB.
L/R EQ1 Q: 4.00 PK F: 25.4 G: 0.0	Press “▼” the first time can adjust main output PEQ1: include Q value, frequency, filter style and adjustable gain parameter, press “EFFECT/EDIT” one time can switch to every parameter bar, and turn to change parameter.
L/R EQ2 Q: 4.00 PK F: 59.7 G: 0.0	Press “▼” the second time can adjust main output PEQ2.
L/R EQ3 Q: 4.00 PK F: 161.2 G: 0.0	Press “▼” the third time can adjust main output PEQ3.
L/R EQ4 Q: 4.00 PK F: 406.1 G: 0.0	Press “▼” the fourth time can adjust main output PEQ4.

Operation Guidance

L/R EQ5 Q: 4.00 PK F: 1K10 G: 0.0	Press “▼” the fifth time can adjust main output PEQ5.
L/R EQ6 Q: 4.00 PK F: 2K30 G: 0.0	Press “▼” the sixth time can adjust main output PEQ6.
L/R EQ7 Q: 4.00 PK F: 6K20 G: 0.0	Press “▼” the seventh time can adjust main output PEQ7.
L/R EQ8 Q: 4.00 PK F: 15K63 G: 0.0	Press “▼” the eighth time can adjust main output PEQ8.
L DELAY 0.000ms	Press “▼” the ninth time can adjust main output L delay parameter: the scale is 0ms-100ms.
R DELAY 0.000ms	Press “▼” the tenth time can adjust main output R delay parameter: the scale is 0ms-100ms.
L/R PHASE 0	Press “▼” the eleventh time can adjust main output phase parameter: the scale is 0 and 180
L/R CMP T: +20.0 R: 3.0 A: 50 R: 500	Press “▼” the twelfth time can adjust main output compressor parameter: T stands for compress value, the scale is -40dB~+20dB; the first R on the second line stands for compressor ratio, 1:1-1:2-LIMIT; A stands for compressor attached time, the scale is 0-200ms; the last R stands for compressor released time, the scale is 0-999ms.
L/R OUT Unmute	Press “▼” the thirteenth time can close and open main output mute: Unmute and Mute can be chosen
AUX GAIN 0.0dB	Press “▼” the fourteenth time can adjust AUX output gain: the scale is -60dB~+6dB.
AUX EQ1 Q: 1.40 PK F: 80.6 G: 0.0	Press “L/R” the fifteenth time can enter AUX output PEQ setting window: include Q value, frequency, filter style and adjustable gain parameter, press “EFFECT/EDIT” one time can switch to every parameter bar, and turn to change parameter.
AUX EQ2 Q: 1.40 PK F: 329.9 G: 0.0	Press “▼” the sixteenth time can adjust AUX output PEQ2.
AUX EQ3 Q: 1.40 PK F: 1K00 G: 0.0	Press “▼” the seventeenth time can adjust AUX output PEQ3.
AUX EQ4 Q: 1.40 PK F: 2K70 G: 0.0	Press “▼” the eighteenth time can adjust AUX output PEQ4.

Operation Guidance

AUX EQ5 Q: 1.40 PK F: 12K13 G: 0.0	Press “▼” the nineteenth time can adjust AUX output PEQ5.
AUX BALANCE MUSIC- -000 +MIC	Press “▼” the twentieth time can adjust AUX output music and mic balance.
AUX MIC/EFX MIC+EFF	Press “▼” the twenty-first time can choose AUX Mic output with or without effector.
AUX L DELAY 0.000ms	Press “▼” the twenty-second time can adjust AUX output L delay parameter: the scale is 0ms-100ms.
AUX R DELAY 0.000ms	Press “▼” the twenty-third time can adjust AUX output R delay parameter: the scale is 0ms-100ms.
AUX PHASE 0	Press “▼” the twenty-fourth time can adjust AUX output phase parameter: the scale is 0 and 180
AUX CMP T: +20.0 R:3.0 A:50 R:500	Press “▼” the twenty-fifth time can adjust AUX output compressor parameter: T stands for compress value, the scale is -40dB~+20dB; the first R on the second line stands for compressor ratio, 1:1-1:2-LIMIT; A stands for compressor attached time, the scale is 0-200ms; the last R stands for compressor released time, the scale is 0-999ms.
AUX OUT Unmute	Press “▼” the twenty-sixth time can close and open Aux output de mute function: Mute and Unmute can be chosen
CENTER KEY	
CNT GAIN 0.0dB	Press “CENTER” enter center output gain adjust window: the scale is -60dB~+6dB.
CNT EQ1 Q:4.00 PK F: 80.6 G: 0.0	Press “▼” the first time can adjust center output PEQ1 :include Q value, frequency, filter style and adjustable gain parameter, press “EFFECT/EDIT” one time can switch to every parameter bar, then turn to change the parameter.
CNT EQ2 Q:4.00 PK F: 329.9 G: 0.0	Press “▼” the second time can adjust center output PEQ2.
CNT EQ3 Q:4.00 PK F: 1K00 G: 0.0	Press “▼” the third time can adjust center output PEQ3.
CNT EQ4 Q:4.00 PK F: 2K70 G: 0.0	Press “▼” the fourth time can adjust center output PEQ4.
CNT EQ5 Q:4.00 PK F: 12K13 G: 0.0	Press “▼” the fifth time can adjust center output PEQ5.

Operation Guidance

CNT BALANCE MUSIC - -000 +MIC	Press “▼” the sixth time can adjust center output Music and Mic balance.
CNT MIC/EFX MIC+EFF	Press “▼” the seventh time can choose center Mic output with or without effector.
CNT DELAY 0.000ms	Press “▼” the eighth time can adjust center output delay: the scale is 0ms-100ms.
CNT PHASE 0	Press “▼” the ninth time can adjust center output phase: the scale is 0 and 180
CNT CMP T: +20.0 R:3.0 A:50 R:500	Press “▼” the tenth time can adjust center output compressor parameter: T stands for compress value, the scale is -40dB~+20dB; the first R on the second line stands for compressor ratio,1:1-1:2-LIMIT; A stands for compressor attached time, the scale is 0-200ms; the last R stands for compressor released time, the scale is 0-999ms.
CNT OUT Unmute	Press “▼” the eleventh time can close and open center output mute: Unmute and Mute can be chosen
SUB KEY	
SUB GAIN 0.0dB	Press “SUB” enter sub woofer output gain adjust window: the scale is -60dB~+6dB.
SUB EQ1 Q:4.00 PK F: 30.5 G: 0.0	Press “▼” the first time can adjust sub woofer output PEQ1 :include Q value, frequency, filter style and adjustable gain parameter,press“EFFECT/EDIT”one time can switch to every parameter bar,then turn to change the parameter.
SUB EQ2 Q:4.00 PK F: 40.3 G: 0.0	Press “▼” the second time can adjust sub woofer output PEQ2.
SUB EQ3 Q:4.00 PK F: 50.8 G: 0.0	Press “▼” the third time can adjust sub woofer output PEQ3.
SUB EQ4 Q:4.00 PK F: 61.1 G: 0.0	Press “▼” the fourth time can adjust sub woofer output PEQ4.
SUB EQ5 Q:4.00 PK F: 80.6 G: 0.0	Press “▼” the fifth time can adjust sub woofer output PEQ5.
SUB HIGH CUT L/R-24dB 101.5Hz	Press “▼” the sixth time can adjust sub woofer output high cut: the slope can choose BYPASS/BUTTERWORTH/BESSEL/LINK-6dB--24dB, frequency scale is 20Hz-200Hz.
SUB LOW CUT L/R-24dB 20.1Hz	Press “▼” the seventh time can adjust sub woofer output low cut: the slope can choose BYPASS/BUTTERWORTH/BESSEL/LINK-6dB--24dB, frequency scale is 20Hz-80Hz.

Operation Guidance

SUB AGC 0.0dB	Press “▼” the eighth time can adjust sub woofer output auto attenuation, when there is Mic input, sub woofer output volume can auto attenuate, the scale is -30dB~0dB.
SUB BALANCE MUSIC- - 100 + MIC	Press “▼” the ninth time can adjust sub woofer output Music and Mic balance.
SUB MIC/EFX MIC	Press “▼” the tenth time can choose sub woofer Mic output with or without effector.
SUB DELAY 0.000ms	Press “▼” the eleventh time can adjust sub woofer output delay: the scale is 0ms-100ms.
SUB PHASE 0	Press “▼” the twelfth time can adjust sub woofer output phase: the scale is 0 and 180
SUB CMP T: +20.0 R:3.0 A:50 R:500	Press “▼” the thirteenth time can adjust sub woofer output compressor parameter: T stands for compress value, the scale is -40dB~+20dB; the first R on the second line stands for compressor ratio, 1:1-1:2-LIMIT; A stands for compressor attached time, the scale is 0-200ms; the last R stands for compressor released time, the scale is 0-999ms.
SUB OUT Unmute	Press “▼” the fourteenth time can close and open sub woof output mute: Unmute and Mute can be chosen
EFFECT/EDIT ENCODER	
Unit Lock Pass Word [1 2 3 4] Y	This encoder has the function of adjusting effect volume, menu parameter editing and confirmation. Long-press 5 seconds can enter panel lock setting window, press "Y" to save your setting, press "N" to exit.
IR SETING CHECK ALL	Press “▼” one time to enter remote controller code setting window: default state is "CHECK ALL": check four code, turn "EFFECT/EDIT" is "CHECK KEY": check single code, press down is confirm.
WORKING STATUS MEMORIZE	Press “▼” the second time enter working status window: default is "MEMORIZE" power off parameter save; "FORGET" power off not save; U01 shut down the device, then start again, it always be U01 user preset, turn "EFFECT/EDIT" to choose the mode you need, press to confirm, press "EXIT" to exit.

PC software

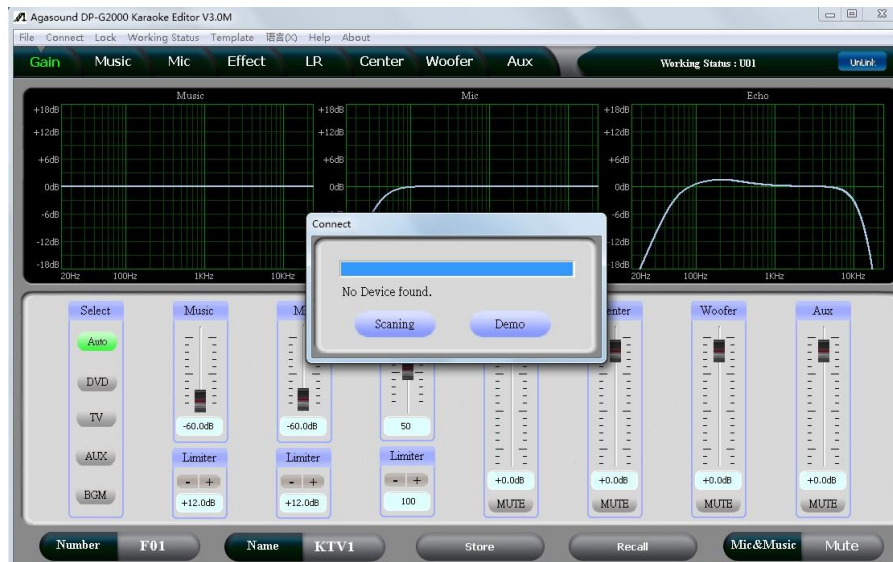
Warnings: PC software、USB driver program and users' manual are on the attached CD

USB cord online steps

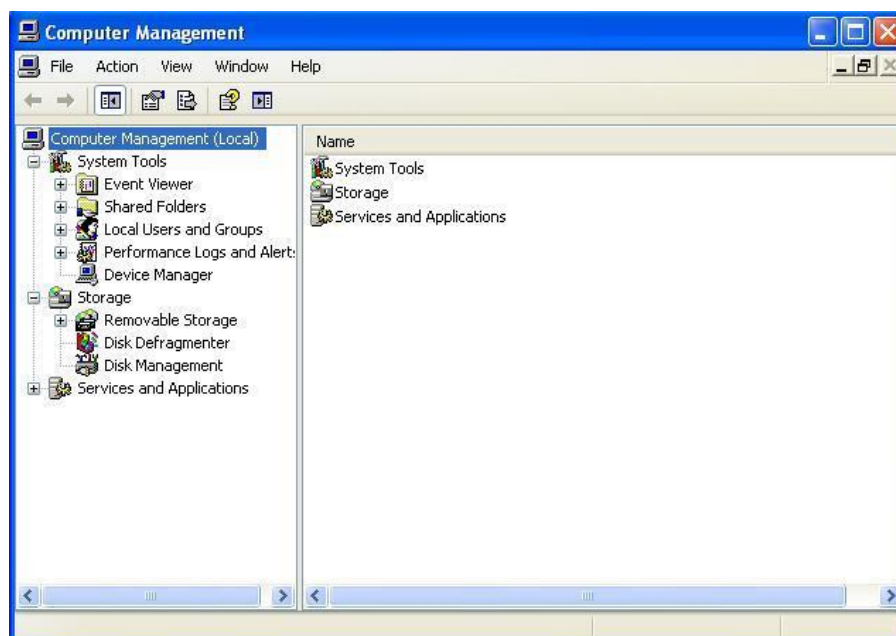
1. Click "PL2303 USB Driver" on the CD, press "next step" according to the default information, press "finish" to exit till the driver set up successfully:



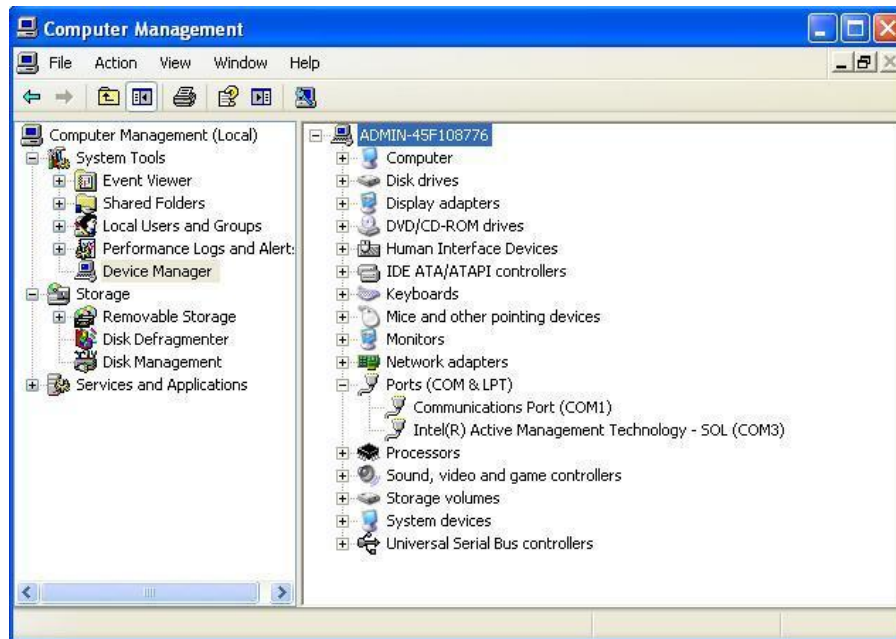
2. click the PC software on the attached CD, press “next step” according to the default information, press “finish” to exit till the PC software set up successfully, close the window after the below window shows:



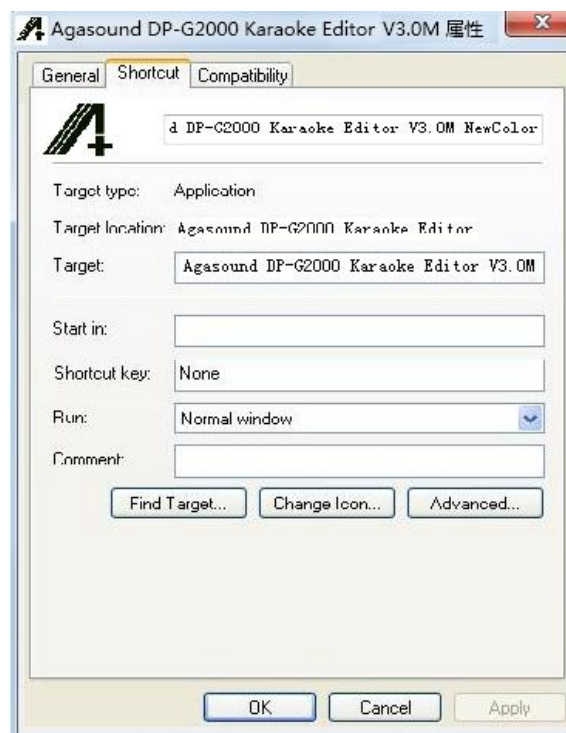
3. connect the computer and the pre amplifier with a USB cord, turn on the pre amplifier, the computer will find the new hardware automatically, the hardware have already set up and can be used now, you can find the current USB COM number as the below steps:
 - a. move the mouse to “ computer” or” my computer” on the desktop, click “ management” by the right mouse, show the below window:



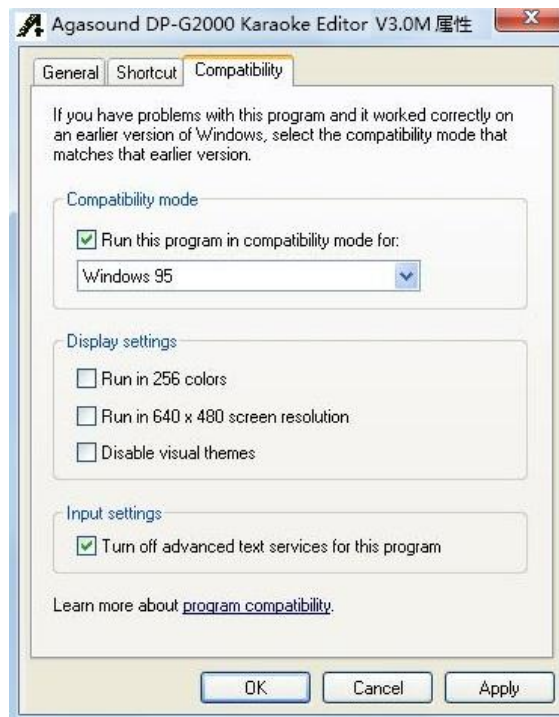
- b. After click “ device manager”, continue to click “port (COM and LPT)” then popup the below window, show the current USB COM number and then close the window:



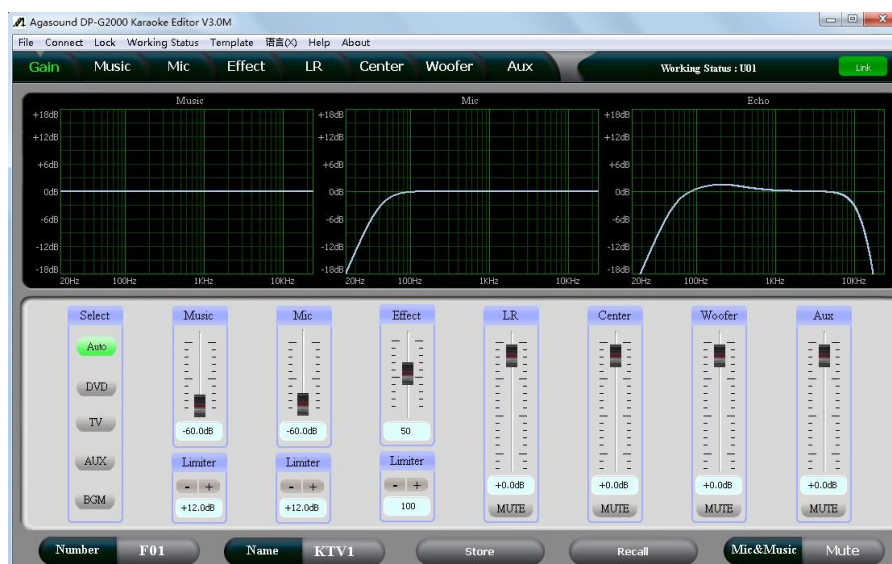
4. If your computer system is Windows 7 or Windows 8, please operate according to the below steps: If Windows XP or other systems, please skip this step, operate as “ step 5” directly
- a. move the mouse to the PC software symbol (please do not open), choose “ properties” by the right mouse, then popup the below window:



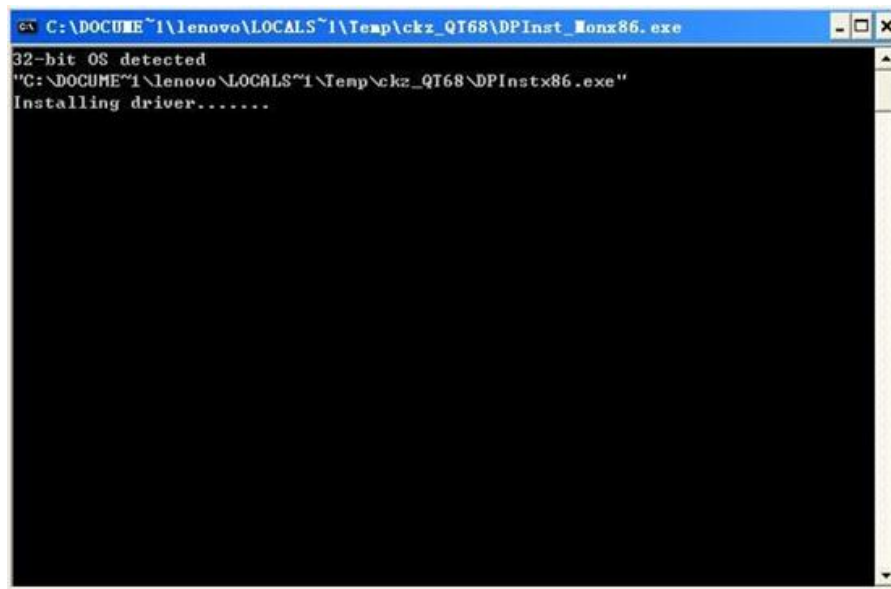
b.below window will show by click “compatibility” , tick “Run this program as an administrator” which below “Privilege level” , click “apply” ,then “confirm”



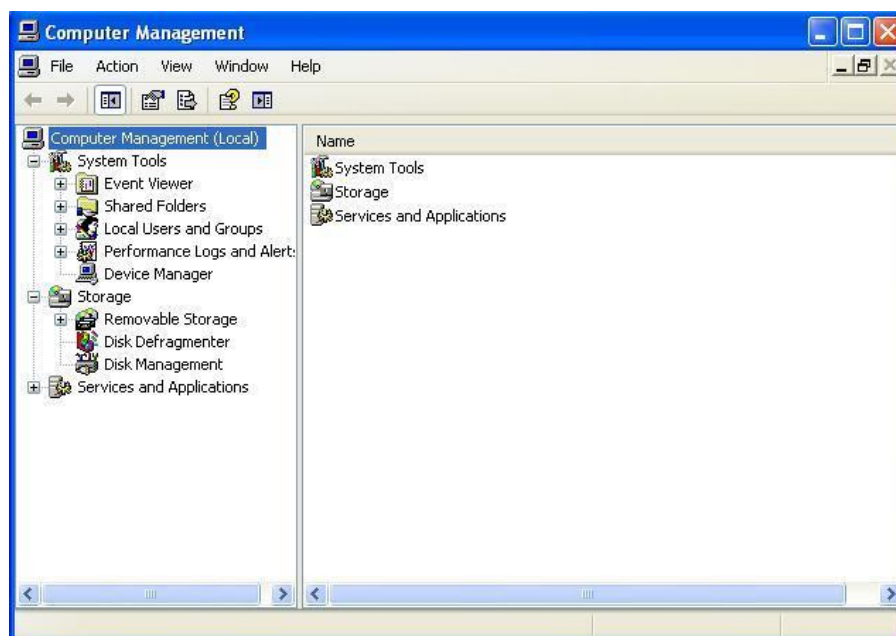
5. Open PC software, the system will search USB COM automatically, the online key on the top right corner of PC software will turn green, and show “online”, it means the software and the device online successfully, you can operate the pre amplifier by the software now, click “online” first when you exit, then close the software window:



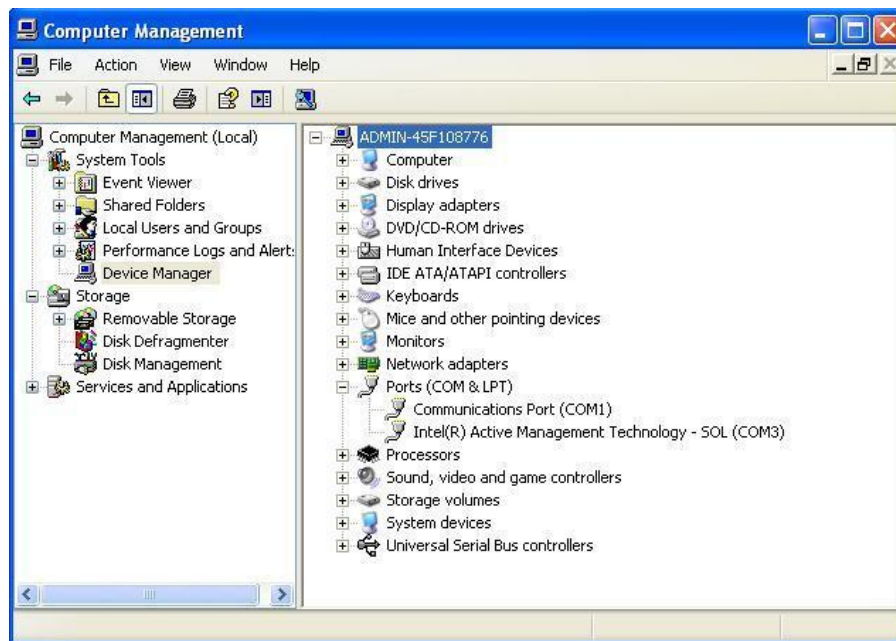
- 2.click to set up the RS232 to USB driver(the driver is on the attached CD when purchase the cord, please choose the driver which is suitable and compatible with the computer system, such as Windows 7 system should install the driver suitable for Windows 7, Windows XP system should install the driver suitable for Windows XP), the below window may be show during set up process:



3. connect the computer and the pre amplifier with a RS232 to USB cord after the driver set up successfully, turn on the pre amplifier, the computer will find the new hardware automatically, the hardware have already set up and can be used now, you can find the current USB COM number as the below steps:
- a.move the mouse to “ computer” or” my computer” on the desktop, click “ management” by the right mouse, show the below window:

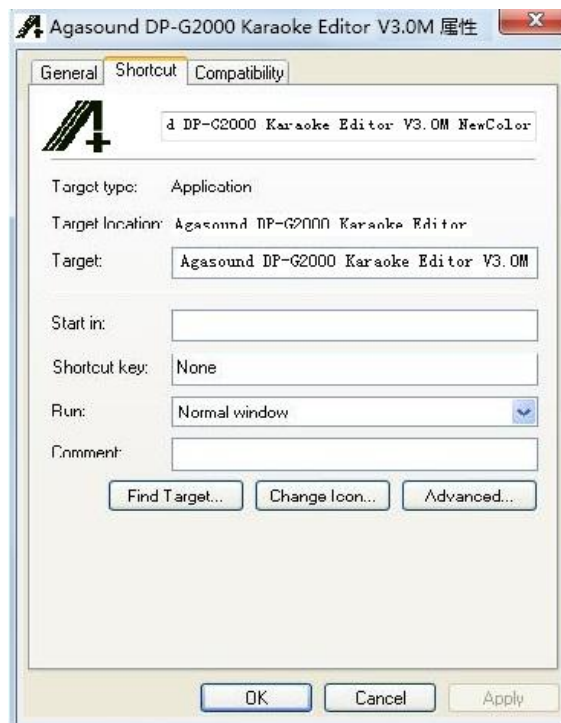


b. After click “device manager”, continue to click “port (COM and LPT)” then popup the below window, show the current USB COM number and then close the window:

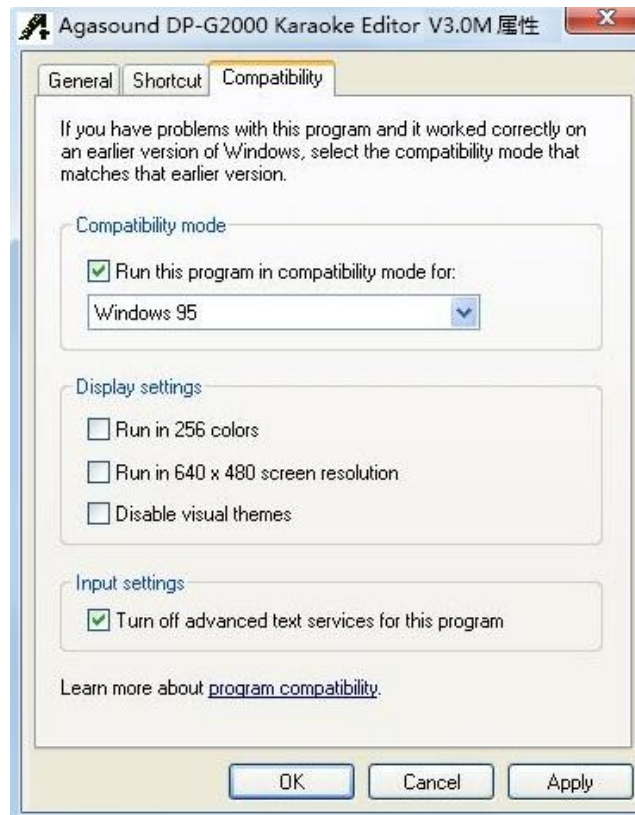


4. If your computer system is Windows 7 or Windows 8, please operate according to the below steps; If Windows XP or other systems, please skip this step, operate as “step 5” directly

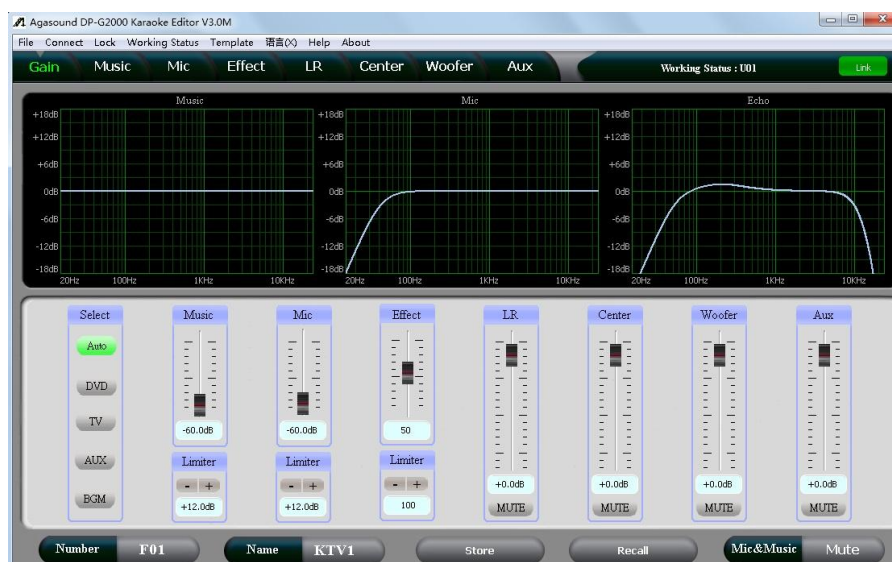
a. move the mouse to the PC software symbol (please do not open), choose “properties” by the right mouse, then popup the below window:



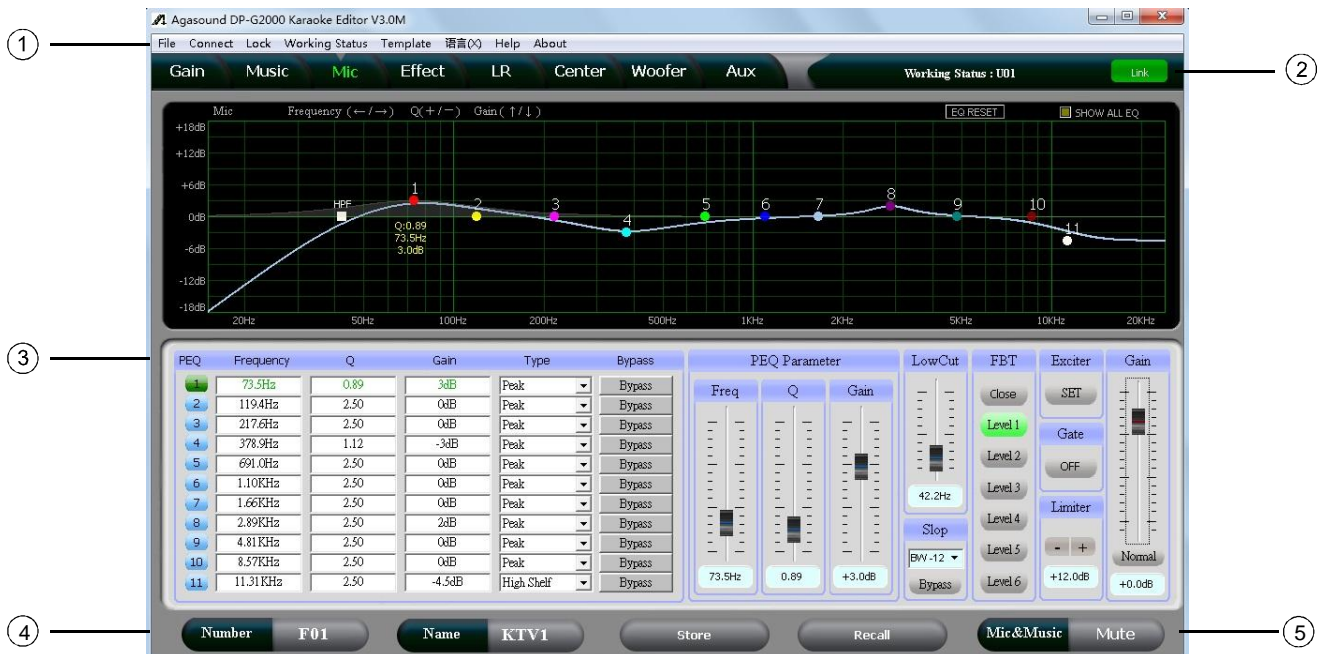
2. Below window will show by click “compatibility”, tick “Run this program as an administrator” which below “Privilege level”, click “apply”, then “confirm”



5. Open PC software, the system will search USB COM automatically, the online key on the top right corner of PC software will turn green, and show “online”, it means the software and the device online successfully, you can operate the pre amplifier by the software now, click “online” first when you exit, then close the software window:



PC software window



① Menu

Upload and download the data, save and recall the preset files, set up steps instruction, panel lock, working status choose, recommend effect parameter choose, Chinese and English operation window.

② Link key

One key type link, green means connect, blue means disconnect

③ Parameter adjust

Set the needed channel parameter

④ Preset operation

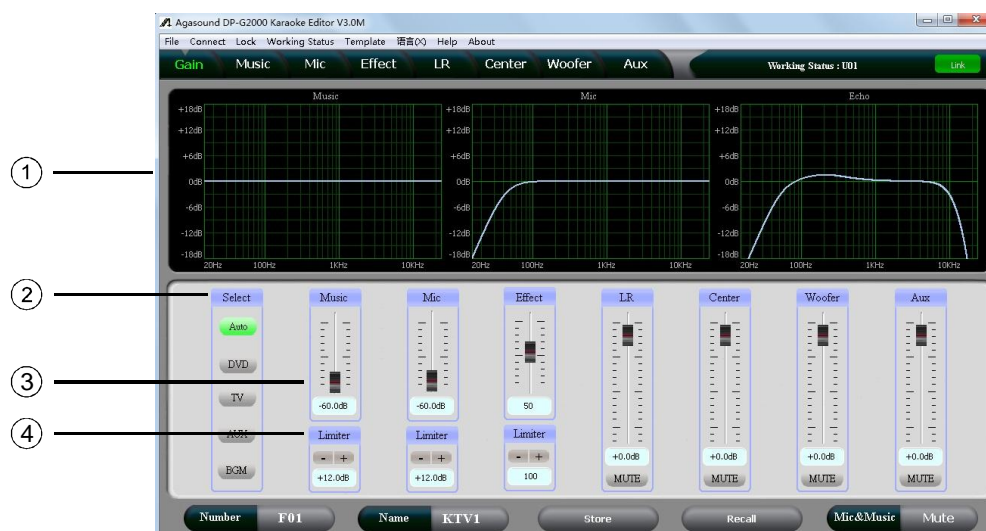
Save and recall the single preset, save and recall presets at this time are in the device.

⑤ Mute key

Control mute or not mute of all Music and Mic

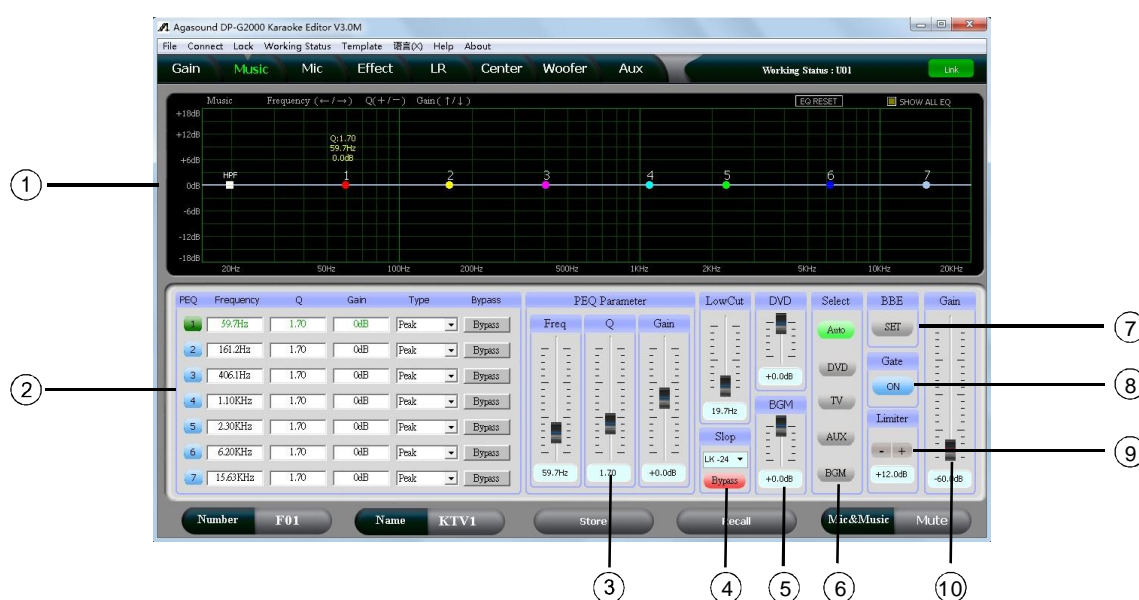
PC software operation instruction

1. volume control



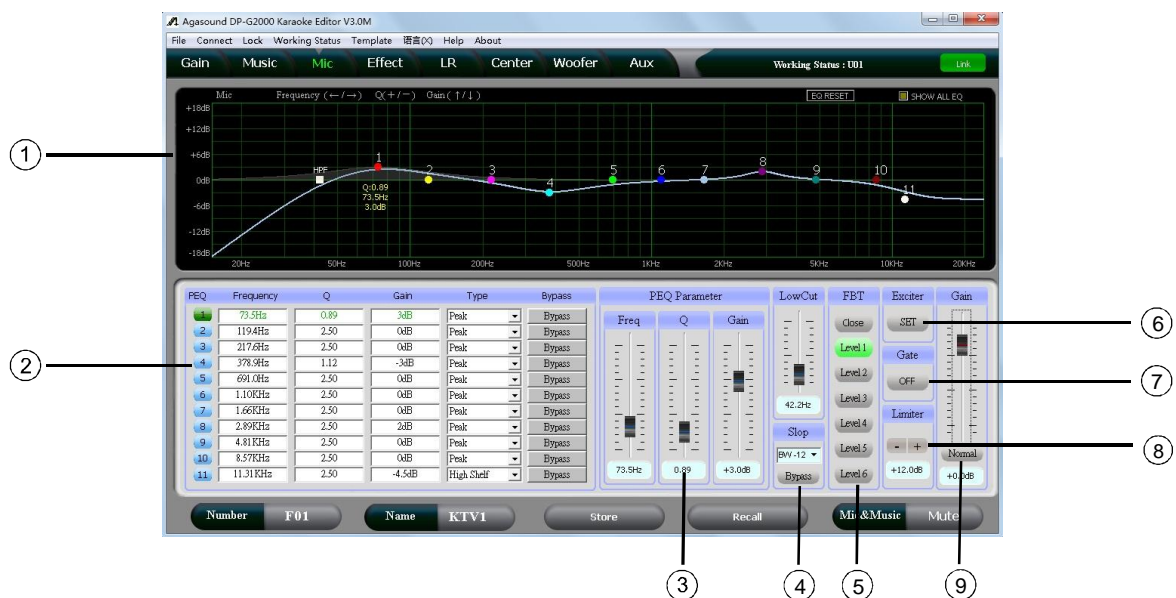
1. show the current music, mic, effect PEQ curve status
2. the input source selection and level display
3. adjust the volume of music, Mic, effect, L/R output, center output, sub woofer and AUX output.
4. music, Mic and effect volume with separate limiter adjust function, output with mute function

2. music process



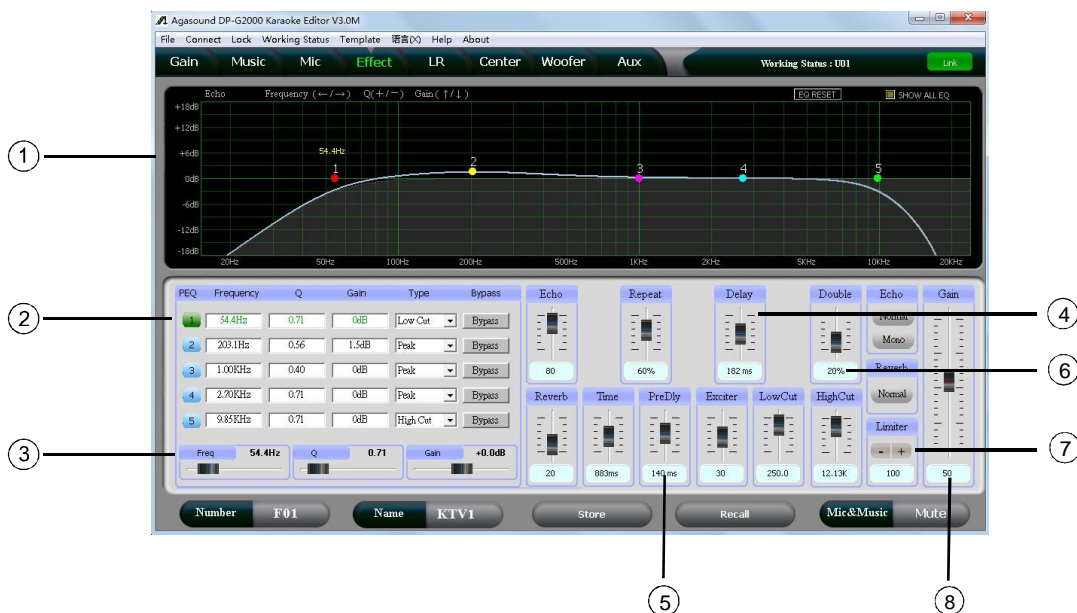
1. PEQ curve adjust area, adjust the frequency and gain parameter by dragging the frequency (small round), drag the small square can change low cut frequency. Click "show all the EQ parameter", show all the PEQ frequency, gain, bandwidth parameter; click "EQ recharge", all the PEQ parameter can resume to the factory default value.
2. PEQ parameter display area, you can input the data manually to change corresponding frequency, Q value, gain, filter style (low shelf/high shelf/low cut/high cut) and bypass key.
3. PEQ adjust push rod, change the current chosen PEQ parameter
4. adjust music low cut frequency, low cut filter style can choose Butterworth-6dB - -24dB/Bessel-6dB - -24dB/Link-12dB - -24dB and bypass key
5. change DVD and BGM input volume.
6. music input sound source switch to AUTO and manual mode (DVD TV AUX BGM).
7. click "SETUP" popup music BBE window, included low and high frequency BBE frequency, adjustable BBE, open and close BBE, automatic state selection. After enter automatic state selection, when open MIC, music BBE function will close automatically, also there's professional speaker and card charter parameter for your reference
8. open and close music input noise gate function by ticking.
9. click "+-" to change music volume limiter parameter.
10. control music volume

3. Mic process



1. PEQ curve adjust area, adjust the frequency and gain parameter by dragging the frequency (small round), drag the small square can change low cut frequency. Click "show all the EQ parameter", show all the PEQ frequency, gain, bandwidth parameter; click "EQ recharge", all the PEQ parameter can resume to the factory default value.
2. PEQ parameter display area, you can input the data manually to change corresponding frequency, Q value, gain, filter style (low shelf/high shelf/low cut/high cut) and bypass key.
3. PEQ adjust push rod, change the current chosen PEQ parameter
4. adjust music low cut frequency, low cut filter style can choose Butterworth-6dB --- 24dB/Bessel-6dB --- 24dB/Link-12dB --- 24dB and bypass key
5. 6 class feedback kill to choose, feedback kill function have not run by choosing "close".
6. click "SETUP" popup music BBE window, included low and high frequency BBE frequency, adjustable BBE, open and close BBE, automatic state selection. After enter automatic state selection, when open MIC, music BBE function will close automatically, also there's professional speaker and card charter parameter for your reference
7. open and close mic input noise gate function
8. click "+-" to change Mic volume limiter parameter.
9. control Mic volume, phase can be chosen 0 and 180

4. Effect process



1. PEQ curve adjust area, adjust the frequency and gain parameter by dragging the frequency (small round), drag the small square can change low cut frequency. Click "show all the EQ parameter", show all the PEQ frequency, gain, bandwidth parameter; click "EQ recharge", all the PEQ parameter can resume to the factory default value.
2. PEQ parameter display area, you can input the data manually to change corresponding frequency, Q value, gain, filter style (low shelf/high shelf/low cut/high cut) and bypass key.
3. PEQ adjust push rod, change the current chosen PEQ parameter

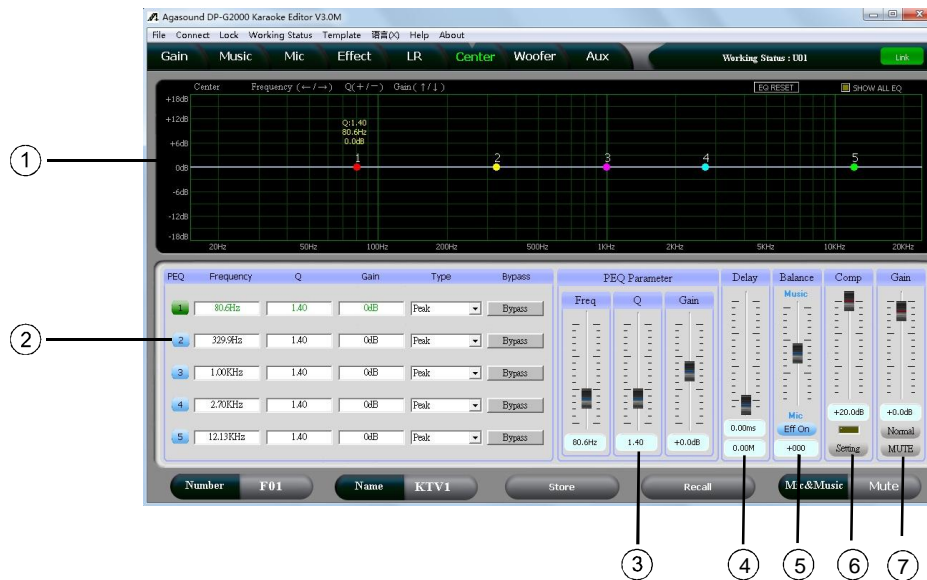
4. Echo has mono and stereo mode, mono status: delay and repeat parameter can adjust; stereo status: L/R delay and repeat can adjust separately, echo phase can be adjust
5. Reverb volume, high cut, low cut, exciter, delay, time, phase can adjust single.
6. adjust thickness parameter to achieve the better effect.
7. click "+-" to change effect volume limiter parameter.

5. Main output L/R process



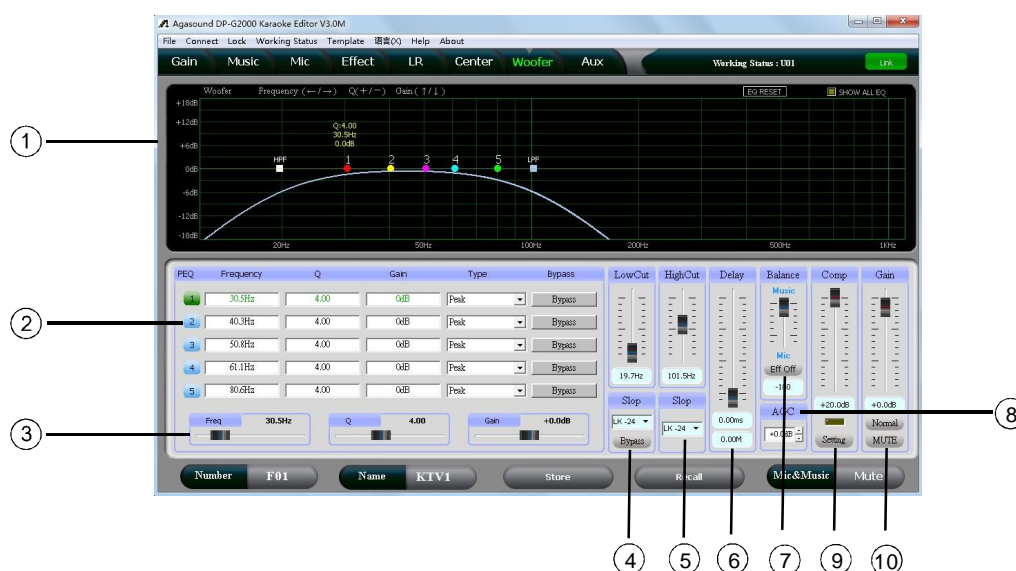
1. PEQ curve adjust area, adjust the frequency and gain parameter by dragging the frequency (small round), drag the small square can change low cut frequency. Click "show all the EQ parameter", show all the PEQ frequency, gain, bandwidth parameter; click "EQ recharge", all the PEQ parameter can resume to the factory default value.
2. PEQ parameter display area, you can input the data manually to change corresponding frequency, Q value, gain, filter style (low shelf/high shelf/low cut/high cut) and bypass key.
3. PEQ adjust push rod, change the current chosen PEQ parameter
4. main output left channel single delay can adjust.
5. main output right channel single delay can adjust.
6. adjust compressor threshold and level display. when the light turn yellow, it means the compressor started. click "setup" to enter compressor parameter setting window, threshold, start released time, ratio adjustable and compressor curve display
7. control main output L/R volume, phase choose 0 and 180, and mute function

6. center output process



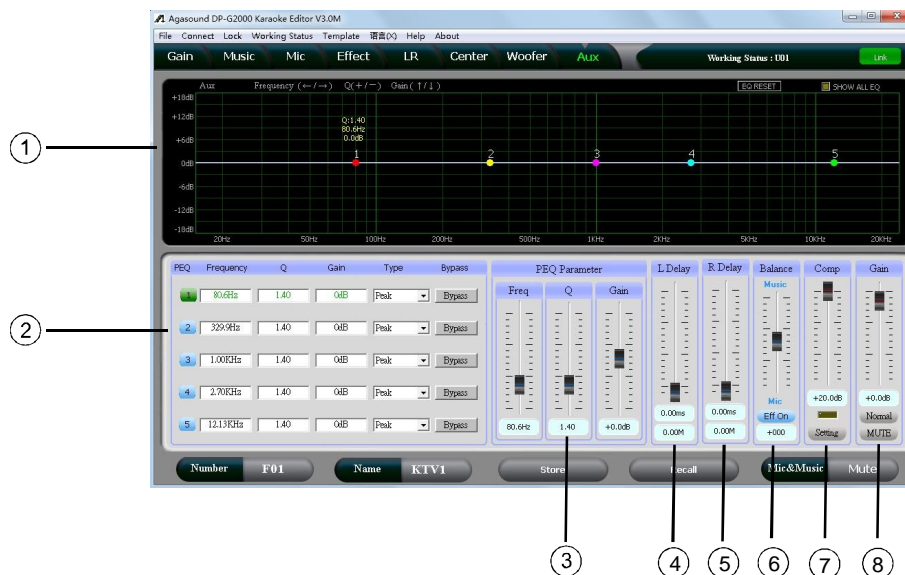
1. PEQ curve adjust area, adjust the frequency and gain parameter by dragging the frequency (small round), drag the small square can change low cut frequency. Click " show all the EQ parameter" , show all the PEQ frequency, gain, bandwidth parameter; click "EQ recharge" , all the PEQ parameter can resume to the factory default value.
2. PEQ parameter display area, you can input the data manually to change corresponding frequency, Q value, gain , filter style (low shelf/high shelf/low cut/high cut) and bypass key.
3. PEQ adjust push rod, change the current chosen PEQ parameter
4. center output delay can adjust separate.
5. center output Music/Mic ratio can adjust separate.
6. adjust compressor threshold and level display. when the light turn yellow, it means the compressor started. click "setup" to enter compressor parameter setting window, threshold, start released time, ratio adjustable and compressor curve display
7. control center output volume, phase choose 0 and 180, and mute function

7. sub woofer output process



1. PEQ curve adjust area, adjust the frequency and gain parameter by dragging the frequency (small round), drag the small square can change low cut frequency. Click "show all the EQ parameter", show all the PEQ frequency, gain, bandwidth parameter; click "EQ recharge", all the PEQ parameter can resume to the factory default value.
2. PEQ parameter display area, you can input the data manually to change corresponding frequency, Q value, gain, filter style (low shelf/high shelf/low cut/high cut) and bypass key.
3. PEQ adjust push rod, change the current chosen PEQ parameter
4. adjust sub woofer low cut frequency, the scale is 20Hz-500Hz, low cut filter style have Butterworth -6dB --- 24dB/Bessel-6dB --- 24dB/link-12dB --- 24dB, and bypass function key
5. adjust sub woofer high cut frequency, the scale is 20Hz-500Hz, high cut filter style have Butterworth-6dB --- 24dB/Bessel-6dB --- 24dB/link-12dB --- 24dB.
6. sub woofer delay can adjust separate.
7. sub woofer output Music/Mic ratio can adjust, default is Music status, effect can choose on or off
8. AGC (auto gain control) function. sub woofer output volume will slow down when there is Mic input, attenuation can adjust continuous, the value is 0dB - 30dB.
9. adjust compressor threshold and level display. when the light turn yellow, it means the compressor started. click "setup" to enter compressor parameter setting window, threshold, start released time, ratio adjustable and compressor curve display
10. control sub woofer output volume, phase choose 0 and 180, and mute function

8. AUX output process



1. PEQ curve adjust area, adjust the frequency and gain parameter by dragging the frequency (small round), drag the small square can change low cut frequency. Click "show all the EQ parameter", show all the PEQ frequency, gain, bandwidth parameter; click "EQ recharge", all the PEQ parameter can resume to the factory default value.
2. PEQ parameter display area, you can input the data manually to change corresponding frequency, Q value, gain, filter style (low shelf/high shelf/low cut/high cut) and bypass key.
3. PEQ adjust push rod, change the current chosen PEQ parameter
4. AUX output left channel single delay can adjust.
5. AUX output right channel single delay can adjust.
6. AUX output Music/Mic ratio can adjust, effect can choose on or off
7. adjust compressor threshold and level display. when the light turn yellow, it means the compressor started. click "setup" to enter compressor parameter setting window, threshold, start released time, ratio adjustable and compressor curve display
8. control AUX output volume, phase choose 0 and 180, and mute function

Specification

System Specification	Frequency Response	20Hz-20kHz, +/-0.5dB
	S/N Ratio	>115dBu
	Distortion(THD)	<0.01% at 1 kHz(-10dBv)
	Cross-talk	<100dB below full scale
MIC Input Section	Type	Unbalanced JACK XLR
	MAX Gain	+45dB
	MAX Input Level	+12dBu
	Impedance	600Ω
Music Input Section	Type	Balanced XLR
	Max. Input Level	+20dBu
	Impedance	1MΩ/Stereo;500kΩ/Mono
Output Section	Type	Balanced XLR
	Max. Output Level(bypass)	+12dBu
	Impedance	<500Ω
Digital Processing	24-bit sigma-delta converters	
	48kHz Sampling Rates	
Display	2*16LCD Display for Parameters setting and function select	
Power Supply	AC90-250V 50/60Hz	
Dimension(L*W*H)	48.2*22.5*4.38CM	
Weight	2.85kg	

Accessories

- ① One CD(Include PC software and owner's manual)
- ② One remote controller
- ③ One USB cord

Karaoke Extend Remote Control Protocol V1.4

1. Control Package Format

	0	1	2	3	4	5	6	7
	DLE	STX	Device Address	CMD	Data1	Data2	STX	DLE
Packet	0x7B	0x7D	1~254	0x31~0x34	0x??	0x??	0x7D	0x7B

2. Command Detail

1) Gain Control (0x31)

	0	1	2	3	4	5	6	7
	DLE	STX	Device Address	CMD	Channel	+/-	STX	DLE
Packet	0x7B	0x7D	1~254	0x31	MIC: 0 Music 1 Effect: 2	+ : 0, - : 1	0x7D	0x7B

Example (advance MIC gain) : 7B7D013100007D7B

2) Mute Control (0x32)

	0	1	2	3	4	5	6	7
	DLE	STX	Device Address	CMD	No/Yes	0x00	STX	DLE
Packet	0x7B	0x7D	1~254	0x32	No: 0, Yes: 1	0x00	0x7D	0x7B

Example (Mute) : 7B7D013201007D7B

3) Load Preset Control (0x33)

	0	1	2	3	4	5	6	7
	DLE	STX	Device Address	CMD	Factory/User	Preset	STX	DLE
Packet	0x7B	0x7D	1~254	0x33	F: 0, U: 1	0~31	0x7D	0x7B

Example (recall user's preset U01) : 7B7D013301007D7B

4) In Select Control (0x34)

	0	1	2	3	4	5	6	7
	DLE	STX	Device Address	CMD	Input	0x00	STX	DLE
Packet	0x7B	0x7D	1~254	0x34	Auto: 0 DVD: 1 TV:2 AUX:3 BGM:4	0x00	0x7D	0x7B

Example (input signal source choose DVD) : 7B 7D 01 34 01 00 7D 7B

5) Volume Control (0x35)

	0	1	2	3	4	5	6	7
	DLE	STX	Device Address	CMD	Channel	Volume	STX	DLE
Packet	0x7B	0x7D	1~254	0x35	MIC: 0 Music 1 Effect: 2	Volume	0x7D	0x7B

MIC & Music: -60dB (0) ~ -30dB (30): 1dB/Step

-29.5dB (31) ~ +12dB (114): 0.5dB/Step

Effect: 0~100, 1/Step

Example (set music volume -20) : 7B 7D 01 35 01 32 7D 7B

6) Get Now Gain (0x38)

	0	1	2	3	4	5	6	7
	DLE	STX	Device Address	CMD	Channel	0x00	STX	DLE
Packet	0x7B	0x7D	1~254	0x38	MIC: 0 Music 1 Effect: 2	0	0x7D	0x7B

MCU Return: 0x00~0x90 = -60dB ~ +12dB, 0.5dB/Step

Example (read MIC volume parameter): 7B 7D 01 38 00 00 7D 7B

7) Get Mute (0x39)

	0	1	2	3	4	5	6	7
	DLE	STX	Device Address	CMD	0x30	0x00	STX	DLE
Packet	0x7B	0x7D	1~254	0x39	0	0	0x7D	0x7B

MCU Return: 0x00 or 0x01 = Un-Mute or Mute

Example (read mute parameter) : 7B7D013900007D7B

8) Get Now Preset (0x3A)

	0	1	2	3	4	5	6	7
	DLE	STX	Device Address	CMD	0x30	0x00	STX	DLE
Packet	0x7B	0x7D	1~254	0x3A	0	0	0x7D	0x7B

MCU Return: 0x00 ~ 0x32 = 0: Normal, 1: Theater, 2: Expert, 3: Disco, 4~9: User 1~User 6

Example (read preset parameter) : 7B7D013A00007D7B

9) Get In Select (0x3B)

	0	1	2	3	4	5	6	7
	DLE	STX	Device Address	CMD	0x30	0x00	STX	DLE
Packet	0x7B	0x7D	1~254	0x3B	0	0	0x7D	0x7B

MCU Return: 0x00 ~ 0x4 = 0: Auto, 1: DVD, 2: TV, 3: AUX, 4: BGM

Example (read input audio source channel parameter) : 7B7D013B00007D7B

communicate parameter	Bits per second	9600	Stop bits	1
	Data bits	8	Step	>=20mS
	Parity	None	ID	Default 1

Safety



Intended to alert the user to the presence of uninsulated “dangerous voltage” within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



Intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

CAUTION: Risk of electrical shock — **DO NOT OPEN!**

CAUTION: To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

WARNING: To prevent electrical shock or fire hazard, this apparatus should not be exposed to rain or moisture, and objects filled with liquids, such as vases, should not be placed on this apparatus. Before using this apparatus, read the operating guide for further warnings.

IMPORTANT SAFETY INSTRUCTIONS

WARNING: When using electrical products, basic cautions should always be followed, including the following:

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding plug. The wide blade or third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point they exit from the apparatus.
11. Only use attachments/accessories provided by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Safety

15. Never break off the ground pin. Write for our free booklet "Shock Hazard and Grounding." Connect only to a powersupply of the type marked on the unit adjacent to the power supply cord.
16. If this product is to be mounted in an equipment rack, rear support should be provided.
17. Exposure to extremely high noise levels may cause a permanent hearing loss. Individuals vary

Considerably insusceptibility to noise-induced hearing loss, but nearly everyone will lose some hearing if exposed to sufficientlyintense noise for a sufficient time. The U.S. Government's Occupational and Health Administration (OSHA) hasspecified the following permissible noise level exposures:

Duration Per Day In Hours	Sound Level dBA, Slow Response
8	90
6	92
4	95
3	97
2	100
1½	102
1	105
½	110
1/4 or less	115

According to OSHA, any exposure in excess of the above permissible limits could result in some hearing loss. Ear plugs or protectors to the ear canals or over the ears must be worn when operating this amplification system in order to prevent a permanent hearing loss, if exposure is in excess of the limits as set forth above. To ensure against potentially dangerous exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of producing high sound pressure levels such as this amplification system be protected by hearing protectors while this unit is in operation.

SAVE THESE INSTRUCTIONS!