

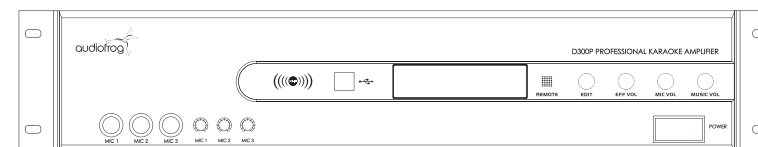
Attention!
To reduce the risk of fire or electric shock,
do not expose this unit to rain or moisture



Karaoke power amplifier

D300P

User Manual



SAFETY PRECAUTIONS

Please read these safety precautions before proceeding.

Power: This device is designed to operate on 120VAC. Please see the package or the back of the unit to confirm that the configuration is right for your location.

Power Cord: Do not allow the cord or the plug to be crushed or damaged.

Humidity: Do not expose this unit to moisture or liquid of any kind. Do not allow liquid to enter the unit through the vent holes or the edges of the case.

Temperature: Do not install near any heat sources such as radiators, stoves, or any other appliances that produce heat.

Internal Components: Refer all repairs or service to a qualified service professional. Do not attempt to repair or service this unit yourself. Opening the cover may expose you to dangerous voltage or other hazards.

Cleaning: Do not clean the surface of the unit with any harsh chemicals. Use only a dry cloth to remove accumulated dust.

Odor: If you smell something burning and suspect a malfunction, turn off the power and unplug the unit immediately.

If you will not use the unit for an extended period of time, turn off the unit and unplug the power cord. Do not allow foreign objects to fall into the unit. Do not insert foreign objects into the vents or the cooling fans. If a foreign object should fall into the unit, unplug the power cord and take the unit to a qualified service professional.

Warning: Do not route the power cord under the unit or between several units in the same equipment rack or on the same shelf. Do not route the power cord in a manner that may create a tripping hazard or where it may be exposed to damage.

INTRODUCTION AND CONTENTS

Thank you for choosing the Audiofrog D300P. We have designed and manufactured this product to the highest quality standards to ensure superior performance and a long and trouble-free service life.

Be sure to inspect the packaging and its contents for any damage that may have been incurred during shipping and handling.

Please read this User Manual before you connect and operate the unit and to be sure your D300P performs its best.

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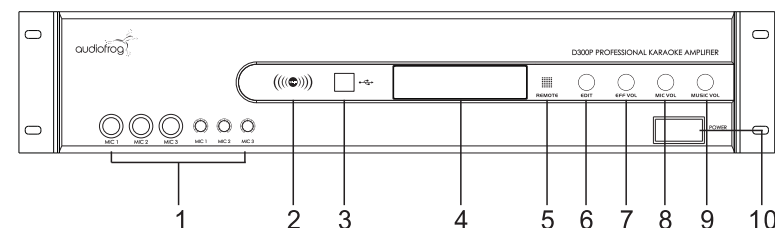
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FEATURES

This unit is a two channel stereo karaoke amplifier that includes industry leading built-in professional digital signal processing effects. The D300P is suitable for all kinds of professional performance venues, KTV rooms and for karaoke at home.

- 3.1 Channel playback (requires additional amplifier channels for center and subwoofer speakers).
- 7 levels of high fidelity Key control
- 7-band parametric equalizer (PEQ) for music, 10- band PEQ, high-pass and low-pass filters (HPF/LPF) for each of two microphones inputs.
- HPF/LPF and 3-band PEQ for Effects inputs.
- 3-band PEQ, HPF/LPF, input selection and mixing, polarity, gain and mute for Main inputs.
- 3-band PEQ, HPF/LPF, input selection and mixing, polarity gain and mute for Center output.
- 3-band PEQ, polarity, gain and mute for Subwoofer output.
- Professional 200MHz, 4-core high speed digital signal processor with 48kHz sampling rate and 24-bit D/A and A/D convertors.
- Professional PC and iOS software offers convenient user operations when the PC or iOS device is connected to the unit via USB or WiFi.
- 13 system memory groups for storing of user and system settings including 6 preset groups, 6 self-effect groups and one dance party group. The unit remembers the last settings upon startup.
- Two levels of security lock to protect your settings.
- Singing/Dancing mode switches automatically. Dancing mode parameters are saved in DanceData.

FRONT PANEL AND FUNCTIONS



1. Mic Input and Level Control

Microphone input connectors with independent volume controls

2. WiFi Signal Window

Indicates WiFi signal transmission and reception

3. USB Connector

Provides PC connection for control via software

4. LCD Screen

Indicates adjustment parameters and settings

5. Remote Control Indicator

Indicates remote control signal reception

6. Edit Button

Used for adjusting volume, system parameters and functions

7. Effect Volume Button

Used for adjusting the effect volume and effect parameters

8. Microphone Volume Button

Used for adjusting the microphone volume and parameters

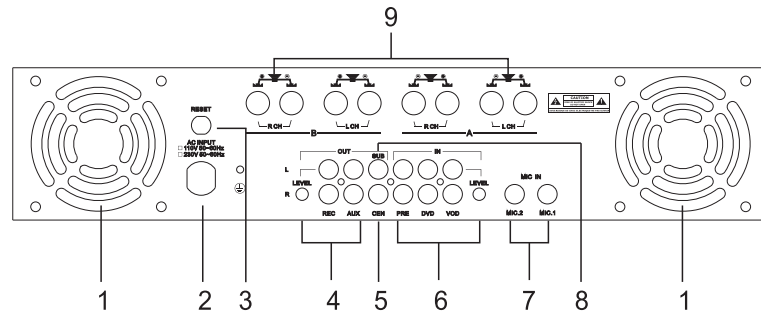
9. Music Volume Button

Used for adjusting the music volume and parameters

10. Power Switch

Used to turn the unit on and off

BACK PANEL AND FUNCTIONS



1. Cooling Fan

2. Power Cord

3. Overload Protection Indicator

If this indicator is lit, turn the volume down or turn off the power

4. Signal Outputs

Connect these to the input connectors of other amplifiers

5. Center Signal Output

Connect this to the input connector of an amplifier used to drive the center speaker

6. Signal Inputs

Connect these to the outputs of source equipment

7. Mic Inputs

Connect these to the output connectors of microphones or microphone preamplifiers.

8. Sub Output

Connect this to the input of an amplifier used to drive the subwoofer

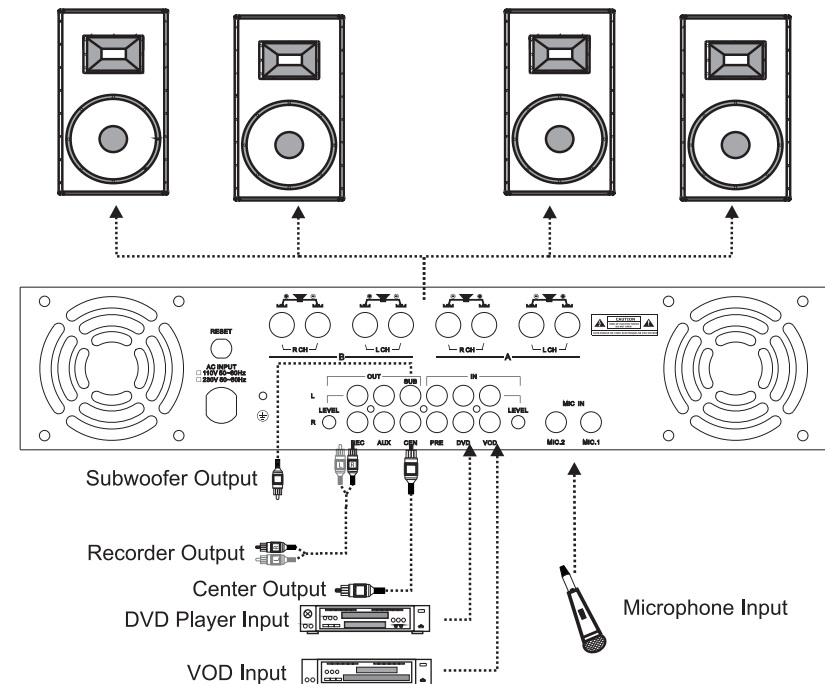
9. Speaker Outputs

Connect these to the main left and right speaker input terminals

SYSTEM CONNECTION DIAGRAM

Connections:

Using 16 AWG wire (or larger), connect the speakers to the speaker terminals A and B. Be sure to observe proper polarity by connecting the speaker terminal marked “+” to the “+” terminal on the amplifier. Connect the “-” terminal of the speaker to the “-” terminal of the amplifier. If you are using two speakers, connect them to the RCH and LCH connectors marked “A”. If you will use four speakers, connect the second pair of speakers to the terminals marked “B”. The total impedance connected to each of the amplifier channels should be equal to or greater than 4 Ohms.



Connect the other equipment to the D300P as shown in the diagram above.

MENU FUNCTION INSTRUCTIONS

Editing Parameters

Eff :44	Mic :64	Mus :20
USER1	Fbx :1	VOD

When the unit is turned on, it will display the parameters that were in use when the unit was turned off. Those parameters will remain in use each time the unit is turned off and on again until they are changed.

Rotate the Edit knob to display each of 23 adjustable parameter menus

1 Feed back:1 2 Mus Input:VOD	◇ Feedback settings: 1-5 ◇ Music Input: DVD or VOD
3 Control Mode:Easy 4 Work Mode:Sing	◇ Control Mode: Easy mode/Professional mode selection ◇ Work Mode: Sing mode/Hot-dancing mode selection
5 Sub VO L VOL: 0dB	◇ Sub Volume: -80 to 12dB
6 Sub H PF: 2 0Hz 7 Sub L PF: 1 25Hz	◇ Sub HPF: 20 to 20KHz ◇ Sub LPF: 20 to 20KHz
8 Sub EQ 1 F: 1 000Hz Q:4.96 G: 0 .0dB	◇ Sub EQ1: Frequency and Gain are adjustable
9 Sub EQ 2 F: 1 000Hz Q:4.96 G: 0 .0dB	◇ Sub EQ2: Frequency and Gain are adjustable

MENU FUNCTION INSTRUCTIONS

10 Sub EQ 3 F: 1 000Hz Q:4.96 G: 0 .0dB	◇ Sub EQ3, parameters are adjustable independently in each EQ
11 Sub P hase Phs:-	◇ Sub Phase setting
12 Cen V OL: 0 dB 13 Cen MicV OL: 100%	◇ Center Volume: -80 to 12dB ◇ Center Mic Volume: 0 to 100%
14 Cen MusV OL: 100% 15 Cen Ef fV OL: 100%	◇ Center Music Volume: 0 to 100% ◇ Center Effect Volume: 0 to 100%
16 Cen H PF: 2 0Hz 17 Cen L PF: 2 0000Hz	◇ Center HPF: 20 to 20KHz ◇ Center LPF: 20 to 20KHz
18 Cen EQ 1 F: 1 02Hz Q:4.96 G :0.0dB	◇ Center EQ1, Frequency and Gain are adjustable
19 Cen EQ 2 F: 1 000Hz Q:4.96 G :0.0dB	◇ Center EQ2, Frequency and Gain are adjustable
20 Cen EQ 3 F :10000Hz Q:4.96 G :0.0dB	◇ Center EQ3, Frequency and Gain are adjustable
21 Cen P hase Phs:-	◇ Center phase setting
22 SAVE To:USER1	◇ Save data to USER(1-6)
23 LOAD From:USER1	◇ Load data from USER(1-6)or KTV(1-6)or Dance

MENU FUNCTION INSTRUCTIONS

Easy Mode Menu:

Effect

1 Echo Level: 100%	◇ Echo Volume: 0 to 100%
2 Rev Level: 60%	◇ Reverb Volume: 0 to 100%
3 Echo Time_L: 230ms	◇ Echo Time Left/Right: 0 to 680ms
4 Echo Time_R: 230ms	
5 Rev Mode: OFF	◇ Reverb Mode: OFF, S.Room, L.Room, S.Hall, L.Hall
6 Rev Time: 1.6s	◇ Reverb Time: 0.1 to 4.0s
7 Eff MAXV OL: 64	◇ Effect Max Volume: 0 to 64

MIC

Mic Number: 1	◇ Mic selection
Mic1 Gain: -80dB	◇ Mic Gain: -80 to 12dB
Mic1 MAXV OL: 64	◇ Mic Max Volume: 0 to 64

Music

Music NoiseGate:1	◇ Music Noisegate
Ths: -91dB	◇ Threshold: OFF, -91 to 0dB
Music Key:	◇ Music Key: ±7 levels
Key:0	
Mus MAXV OL:64	◇ Music Max Volume: 0 to 64

MENU FUNCTION INSTRUCTIONS

Professional Mode Menu:

Effect

1 Echo Level: 100%	◇ Echo Volume: 0 to 100%
2 Rev Level: 60%	◇ Reverb Volume: 0 to 100%
3 Echo Time_L:230ms	◇ Echo Time Left/Right: 0 to 680ms
4 Echo Time_R:230ms	
5 Rev Mode: OFF	◇ Reverb Mode: OFF, S.Room, L.Room, S.Hall, L.Hall
6 Rev Time: 1.6s	◇ Reverb Time: 0.1 to 4.0s
7 Eff MAXV OL: 64	◇ Effect Max Volume: 0 to 64
8 Eff Direct: 100%	◇ Effect Direct: 0 to 100%
9 Echo Repeat: 54%	◇ Echo Repeat: 0 to 100%
10 PreLPF: 8000Hz	◇ PreLPF: 20 to 8000Hz
11 PreHPF: 30Hz	◇ PreHPF: 20 to 8000Hz
12 PreDelay_L: 30ms	◇ PreDelay Left: 0 to 340ms
13 PreDelay_R: 0%	◇ PreDelay Right: 0 to 100%
14 Echo L Damp: 0	◇ Echo Lo Damp: 0 to 100
15 Echo H Damp: 35	◇ Echo Hi Damp: 0 to 100
16 Eff EQ1 F: 102Hz	◇ Effect EQ1, Frequency and Gain are adjustable
Q:4.96 G :0.0dB	
17 Eff EQ2 F: 102Hz	◇ Effect EQ2, Frequency and Gain are adjustable
Q:4.96 G :0.0dB	

MENU FUNCTION INSTRUCTIONS

18 Eff EQ 3 F: 102Hz
Q:4.96 G :0.0dB

◇ Effect EQ3, Frequency and Gain are adjustable

19 Rev H Damp: 50
20 Rev P reHPF: 5 0Hz

◇ Reverb Hi Damp: 0 to 100
◇ Reverb PreHPF: OFF, 20 to 1200Hz

MIC1 and MIC2

Mic1 MAX V OL: 64

◇ Mic1 MAX VOL: 64

Mic1 H PF: 2 0Hz
Mic1 L PF: 2 0000Hz

◇ Mic HPF: 20 to 20KHz
◇ Mic LPF: 20 to 20KHz

Mic1 P EQ1 F: 6 4Hz
Q:16.0 G: 0 .0dB

◇ Mic PEQ: 10 bands, Frequency and Gain are adjustable.

Mic1 C omp:
sw: ON T hr:12dB

◇ Mic Compression
◇ Start threshold: -80 to 12dB

Mic1 C omp A: 5ms
R: 1 ATK R a:1:1

◇ Recovery time: 5 to 100ms
◇ Release time: 2ms,4ms,6ms,8ms,16ms,32ms;
Compression rate: 1 to 128:1

Mic1 N oisegate:
Thr: - 91dB

◇ Mic Noisegate
◇ Threshold: OFF, -91 to 0dB

Mic1 N umber: 1
Mic1 G ain: 0d B

◇ Mic selection
◇ Mic Gain: -80 to 12dB

Mic1 MAX V OL: 64

◇ Mic Max Volume: 0 to 64

MENU FUNCTION INSTRUCTIONS

Music

PEQ1 F: 4 0Hz
Q:10.3 G: 0 .0dB

◇ Music PEQ 7 bands, Frequency and Gain are adjustable.

Music N oisegate:
Thr: - 91dB

◇ Music Noisegate
◇ Threshold: OFF, -91 to 0dB

Music K ey:
Key: 0

◇ Music Key: ±7 levels

Mus MAX V OL: 64

◇ Music Max Volume: 0 to 64

Data structure of the device:

Parameter data can be saved to USER (1-6). KTV (1-6) cannot be used for saving, but only for restoring. Data in KTV (1-6) includes all parameters, but Max Volume will revert to the value to which it was set when the unit was last turned off.

Data Operations:

Saving Data:

If you are satisfied with the current settings, rotate the EDIT button until SAVE is displayed. Press the EDIT button until the screen begins flashing. Then, press the EDIT button again to save the settings to one of the USER(1-6) positions.

Loading Saved Parameters:

Rotate the EDIT button until LOAD is displayed and press the EDIT button. Then, rotate the EDIT button to sequentially display 6 KTV Settings (KTV (1-6)), 6 USER settings (USER(1-6)) and one DANCE setting. Once the location from which you wish to load the settings is displayed, press the EDIT button to load the settings.

If you wish to select the setting to be the default setting that is loaded automatically each time the unit is turned on, save the setting again.

MENU FUNCTION INSTRUCTIONS

Restoring Factory Default Settings:

In case of a malfunction or a mistake in parameter setting or saving, or if you want to restore the unit to the factory default settings, press the MUSIC VOL button in standby status until DATA RECOVERING is displayed. After a few moments, the factory settings will be restored and the display will return to normal.

Locking Data to Prevent Unwanted or Incorrect Changes:

After you have finished setting all of the parameters and saving the data, you can prevent unwanted changes by locking the data. Press the EDIT button until the PANEL LOCK interface is displayed. Choose the LOCK LEVEL you want and press EDIT again. Press and hold EDIT to unlock.

Level 1 Lock:

When LEVEL 1 has been chosen, only the EFF VOL, MIC VOL and MUSIC VOL can be adjusted. The PC Software remains operational.

Level 2 Lock:

When Level 2 LOCK has been chosen, the panel and the buttons are deactivated and no changes can be made using the PC Software.

Unlocking the Device:

To unlock the device, press any button on the device and follow the prompts to unlock the device using the password.

Password Protection:

You can set the panel lock in the system menu. The initial password is "1111". Choose PASSWORD RESET in the menu and enter a new password.

SOFTWARE OPERATION AND APPLICATION

PC Software Installation and Operation

1. After connecting the unit to the speakers, microphones and source components, and the mains power, turn the unit on using the power switch.
2. The unit can be operated using the panel buttons and the display or through an external device connected via USB or WiFi. When the unit is connected to an external device, the panel buttons and display are inoperative.
3. WiFi range is limited to a distance of about 10 meters. The surrounding environment may affect the WiFi range.

Downloading the Software

1. The PC software can be downloaded at www.Audiofrog.com
2. Software for Apple devices can be found in the App Store. Scan the QR code below to download the app directly:

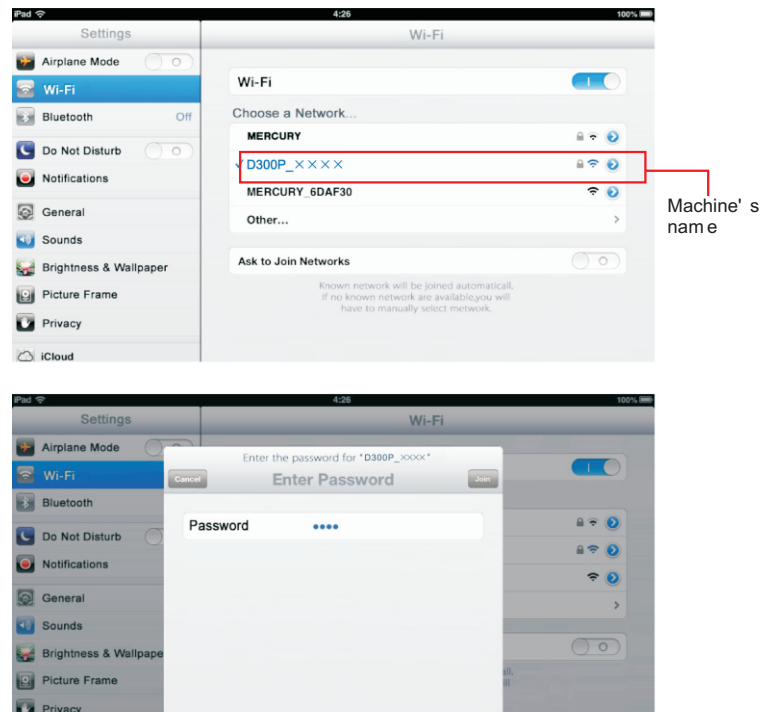


3. Every D300P unit has a unique machine code printed on the back panel. The machine's name is the model number plus the last four digits of the unique machine code: D300P_****

SOFTWARE OPERATION AND APPLICATION

1. Turn the unit on.
2. In the device you wish to connect (PC or iOS device), open the list of wireless devices and search select your D300P unit using its unique machine name: D300P_****
3. Input the password to connect to the D300P. The factory default password is "12345678".

Connecting an iPad:



SOFTWARE OPERATION AND APPLICATION

Connecting an iPhone:



Connecting a PC:

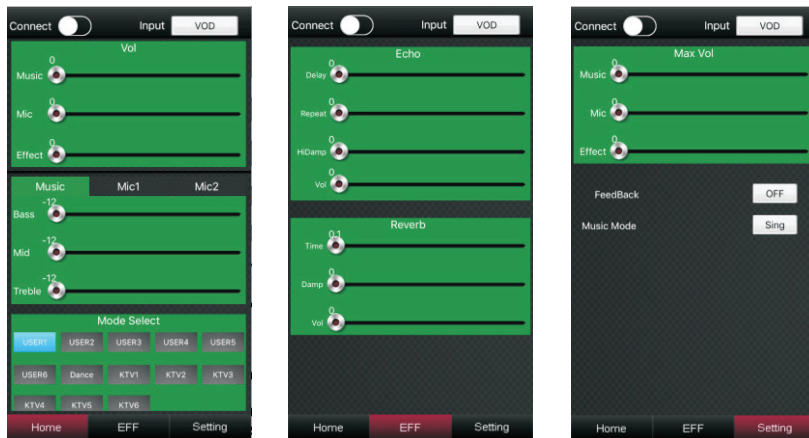


SOFTWARE OPERATION AND APPLICATION

Editing Parameters Using an External Device

Parameters and settings can be changed using a PC or an iOS device like an iPhone or iPad. Because the iPhone screen is small, the settings panel for the phone is an abbreviated version of the panel available when using an iPad or a PC.

iPhone editing interface:



The settings panels in the iPhone interface include a Home Page in which level controls and mode selection switches are available, an Effects Page in which basic effects settings are available and a Settings interface in which maximum volume settings are available along with some additional global settings.

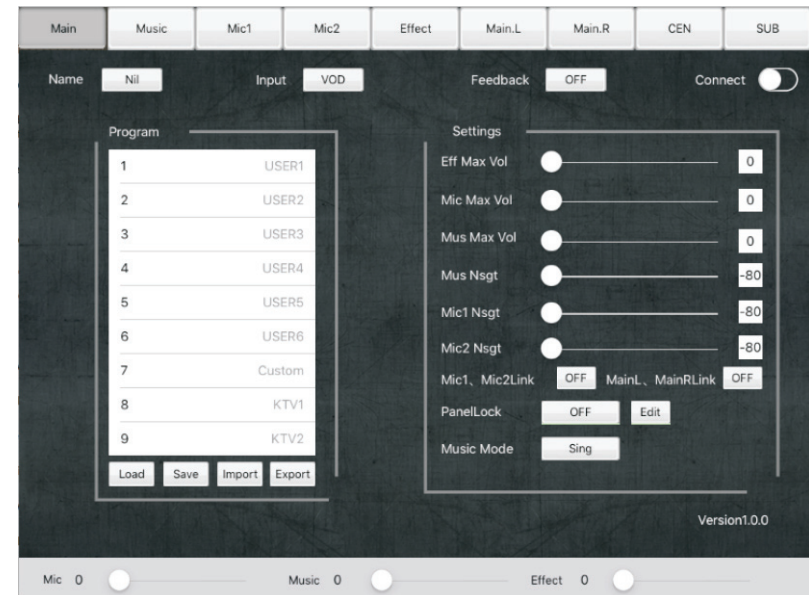
While the iPhone software provides a convenient way to switch between presets and adjust levels, the iPad software, the PC software or the front panel interface are recommended for initial device setup and tuning of the audio system.

SOFTWARE OPERATION AND APPLICATION

iPad Editing Interface:

The larger screen available on the iPad affords more space for a more complete set of controls and settings.

The main screen includes settings for basic functions and separate tabs along the top for gaining access to more detailed settings.



SOFTWARE OPERATION AND APPLICATION



Press the Input button to open a list of input choices.

iPad Software:

Independent parametric equalization is provided for speaker output channel, (Main Left and Main Right), preamp outputs (Center and Sub), for each of the inputs and for the effects. Press the corresponding tab at the top for access to each. Control the EQ using the sliders at the bottom of by manipulating the graph directly.



Music:
7-band parametric EQ and Key control.



Press the Feedback button to open a list of feedback elimination settings.



MIC 1:
10-band parametric EQ, cross-over, channel gain and compression.

SOFTWARE OPERATION AND APPLICATION



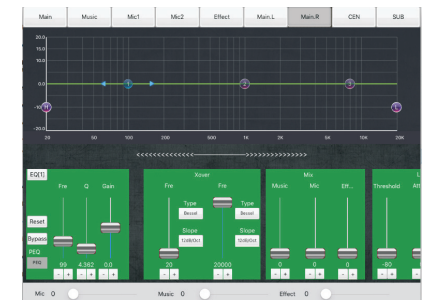
MIC 2:
10- band parametric EQ, cross-over, channel gain and compression.



Effect:
3-band parametric EQ, Echo, Reverb and Direct.



Main Left:
3-band parametric EQ, cross-over, mixer, limiter, polarity and gain (level)



Main Right:
3-band parametric EQ, cross-over, mixer, limiter, polarity and gain (level)

SOFTWARE OPERATION AND APPLICATION



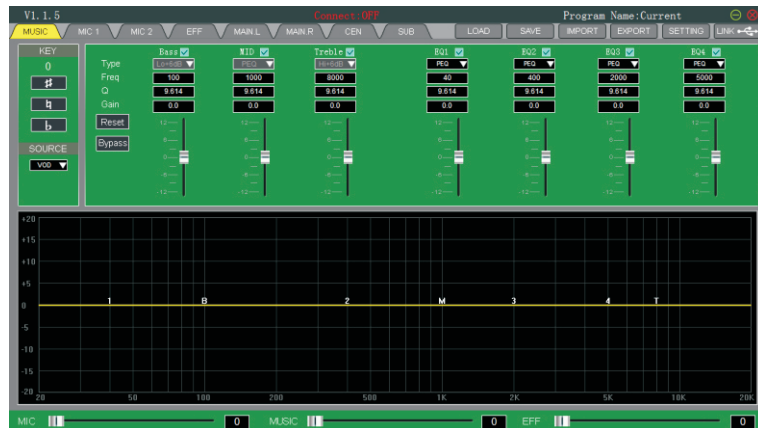
Center:
3-band parametric EQ, crossover,
limiter, polarity and gain.



Sub:
3-band parametric EQ, crossover,
polarity and gain.

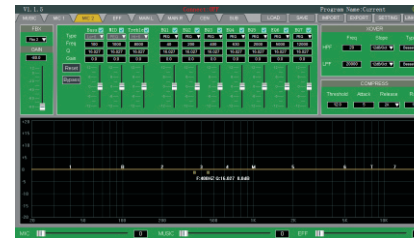
PC Software:

The PC software offers control layout similar to the iPad. Manipulate the settings using the sliders and text boxes at the top or by manipulating the graph at the bottom directly. Available settings are the same as for the iPad.

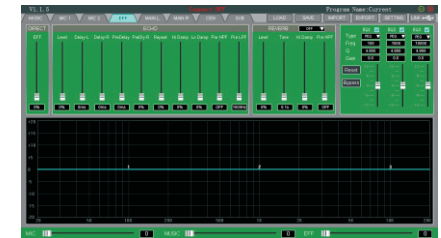


SOFTWARE OPERATION AND APPLICATION

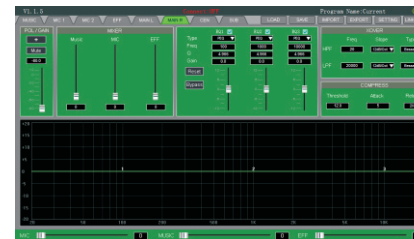
PC Software Interface:



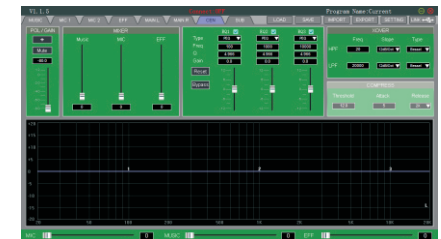
Mic 1 and Mic 2



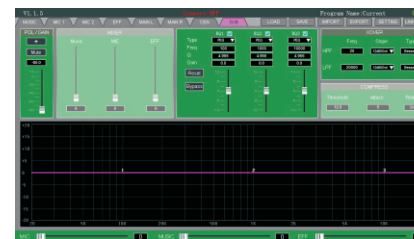
Effect



Main L and Main R



Center

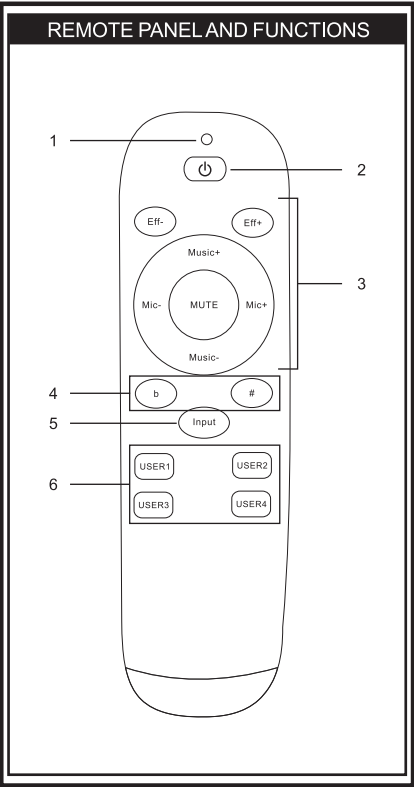


Sub

REMOTE CONTROL (OPTIONAL)

Remote Control Keys and Functions

- 1. Signal Light:
Indicates remote control transmission.
- 2. Power:
Turns the unit on and off.
- 3. Volume Control
Increases and decreases the output level of various functions: Effects, Microphones, and music.
- 4. Music Key Control:
Adjusts the music key (b: Flat, #: sharp). Pressing the b button will cause the output to be adjusted to a lower key. Pressing the # button will cause the output to be adjusted to a higher key.
- 5. Input Select:
Selects the input for playback
- 6. User1-User4:
Recalls the parameters stored in User 1,2, 3 and 4 memory locations



SPECIFICATIONS

Items	Parameters		Test
Output Power	Main (L/R)	300W 2/ 8Ω	
	MIC	75dB	Input 1KHz 0dB
S/N (dB)	Music	90dB	
THD	MIC	0. 3%	Input 1KHz 0dB
	Music	0. 2%	
Sensitivity	MIC	35mv	
	Music	350mv	
Input Impedance	MIC	10K unbalanced	
	Music	47K unbalanced	
Frequency Response		20Hz- 20kHz(±0. 5dB, 1kHz)	
Feedback Elimination		5 levels	
Crosstalk		70dB/1kHz	
Professional Mode	MIC	PEQ+Xover+Feedback+Compressor	
	Music	PEQ+Key controls	
	Effect	PEQ+Direct+Echo+Reverb	
Gross Weight		18KG	
Package Dimensions(W*H*D)		615x595x145mm	

Audiofrog may upgrade or update the features, performance and specifications of this device and it's attendant software without notice.

STANDARD PACKAGE		
NO.	NAME	QUANTITY
1	DEVICE	1PCS
2	USER MANUAL	1PCS
3	REMOTE CONTROL	1PCS

TROUBLESHOOTING

If your D300P malfunctions, please check the troubleshooting chart below for possible solutions before taking your unit to a qualified service professional.

Failure	Reason	Solution
Output and screen doesn't work.	<input checked="" type="checkbox"/> Power socket has no power.	<input checked="" type="checkbox"/> Repair the power supply system.
	<input checked="" type="checkbox"/> Power plug is not in.	<input checked="" type="checkbox"/> Connect the power plug correctly, and make sure it is connected well.
	<input checked="" type="checkbox"/> Overload protection	<input checked="" type="checkbox"/> Pull out power plug and change the same type of fuse.
Output works but the screen doesn't work.	<input checked="" type="checkbox"/> Signal wires don't connect well.	<input checked="" type="checkbox"/> Connect signal wires well according to this user manual.
	<input checked="" type="checkbox"/> Main volume is turned down.	<input checked="" type="checkbox"/> Adjust the volume.
	<input checked="" type="checkbox"/> Signal wires don't connect correctly.	<input checked="" type="checkbox"/> Connect input correctly.
	<input checked="" type="checkbox"/> There is no output signal.	<input checked="" type="checkbox"/> Check the sound input system.
Only one output works.	<input checked="" type="checkbox"/> Signal wires don't connect well.	<input checked="" type="checkbox"/> Connect signal wires well according to this user manual.
	<input checked="" type="checkbox"/> Balanced potentiometer is to the extreme.	<input checked="" type="checkbox"/> Adjust the balance potentiometer to the middle.
	<input checked="" type="checkbox"/> Signal wires don't connect correctly.	<input checked="" type="checkbox"/> Connect signal wires correctly.
	<input checked="" type="checkbox"/> Signal wires doesn't work.	<input checked="" type="checkbox"/> Check if the signal wires are open circuit.
There is no sound in the MIC or the sound is so low.	<input checked="" type="checkbox"/> MIC hasn't been turned on.	<input checked="" type="checkbox"/> Turn on the MIC.
	<input checked="" type="checkbox"/> MIC hasn't been plugged in completely.	<input checked="" type="checkbox"/> Plug in the MIC completely.
	<input checked="" type="checkbox"/> MIC volume has been turn down.	<input checked="" type="checkbox"/> Adjust the MIC volume to the reasonable level.
	<input checked="" type="checkbox"/> MIC doesn't work.	<input checked="" type="checkbox"/> Change the MIC.
Feedback happens or there is a lot of noise.	<input checked="" type="checkbox"/> MIC is too near to the loudspeaker.	<input checked="" type="checkbox"/> Keep the MIC far away from the loudspeaker.
	<input checked="" type="checkbox"/> MIC volume is too high.	<input checked="" type="checkbox"/> Adjust the MIC volume to the reasonable level.
	<input checked="" type="checkbox"/> MIC index is not the right one.	<input checked="" type="checkbox"/> Change the MIC of the same index.
	<input checked="" type="checkbox"/> MIC hasn't been plugged in completely.	<input checked="" type="checkbox"/> Plug in the MIC completely.

Warning:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE: This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter

RF Exposure Statement

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 20cm the radiator your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter