KURZWEIL

KST300A

USER'S MANUAL

English Manual

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KURZWEIL

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CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE THE COVER.
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with the arrowhead symbol, within an equilateral triangle is 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.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

IMPORTANT SAFETY & INSTALLATION INSTRUCTIONS

INSTRUCTIONS PERTAINING TO THE RISK OF FIRE ELECTRIC SHOCK , OR INJURY TO PERSONS

WARNING: When using electric products, basic precautions should always be followed, including the following:

1. Read all the Safety and Installation Instructions and Explanation of Graphic Symbols before using the product.
2. This product must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product is equipped with a power supply cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet which is properly installed and grounded in accordance with all local codes and ordinances.

   DANGER: Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Do not modify the plug provided with the product – if it will not fit the outlet, have a proper outlet installed by a qualified electrician. Do not use an adapter which defeats the function of the equipment-grounding conductor. If you are in doubt as to whether the product is properly grounded, check with a qualified serviceman or electrician.
3. Do not use this product near water – for example, near a bathtub, washbowl, kitchen sink, in a wet basement, or near a swimming pool, or the like.
4. This product should only be used with a stand or cart that is recommended by the manufacturer.
5. This product, either alone or in combination with an amplifier and speakers or headphones, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
6. This product should be located so that its location or position does not interfere with its proper ventilation.
7. The product should be located away from heat sources such as radiators, heat registers, or other products that produce heat.
8. The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product.
9. This product may be equipped with a polarized line plug (one blade wider than the other). This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician to replace your obsolete outlet. Do not defeat the safety purpose of the plug.
10. The power supply cord of the product should be unplugged from the outlet when left unused for a long period of time. When unplugging the power supply cord, do not pull on the cord, but grasp it by the plug.
11. Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
12. The product should be serviced by qualified service personnel when:
    A. The power supply, power cord or plug have been damaged;
    B. Objects have fallen, or liquid has been spilled into the product;
    C. The product has been exposed to rain;
    D. The product does not appear to be operating normally or exhibits a marked change in performance;
    E. The product has been dropped, or the enclosure damaged.
13. Do not attempt to service the product beyond that described in the user maintenance instructions. All other servicing should be referred to qualified service personnel.
14. **WARNING:** Do not place objects on the product's power supply cord, or place the product in a position where anyone could trip over, walk on, or roll anything over cords of any type. Do not allow the product to rest on or be installed over cords of any type. Improper installations of this type create the possibility of a fire hazard and/or personal injury.

RADIO AND TELEVISION INTERFERENCE

WARNING: Changes or modifications to the instrument not expressly approved by Young Chang could void your authority to operate the instrument.

IMPORTANT: When connecting this product to accessories and/or other equipment use only high quality shielded cables.

NOTE: This instrument 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 instrument 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 instrument does cause harmful interference to radio or television reception, which can be determined by turning the instrument 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 instrument and the receiver.
- Connect the instrument into an outlet on a circuit other than the one to which the receiver is connected.
- If necessary consult your dealer or an experienced radio/television technician for additional suggestions.

The normal function of the product may be disturbed by strong electromagnetic interference. If so, simply reset the product to resume normal operation by following the instructions in the manual. If normal function does not resume, please use the product in another location.

NOTICE

This apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

AVIS

Le present appareil numerique n'emet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de la class B prescrites dans le Reglement sur le brouillage radioelectrique edicte par le ministere des Communications du Canada.

SAVE THESE INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS

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 dry cloth.
7) Do not block any of the ventilation openings. Install in accordance with the 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 prong. The wide blade or the third prong are 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 and power supply adapter from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11) Only use power adapters and attachments/accessories specified 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.

Warning: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Do not expose this equipment to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the equipment.

To completely disconnect this equipment from the AC Mains, disconnect the power supply cord plug from the AC receptacle.

Kurzweil International Contacts

Contact the Kurzweil office listed below to locate your local Kurzweil representative.

US Customers:

American Music & Sound
925 Broadbeck Dr #220
Newbury Park, CA 91320

Tel: 800-431-2609
Fax: 818-597-0411
Email: info@americanmusicandsound.com

Customers outside the US:

Young Chang Co., LTD.
178-55, Gajwa-Dong, Seo-Ku
Incheon, Korea
Post Code: 404-714

Tel: +82-32-570-1576
Fax: +82-32-576-2340

www.kurzweil.com
support@kurzweil.com
www.facebook.com/kurzweilmusicsystems/
www.twitter.com/KurzweilMusic
www.youtube.com/user/KurzweilTutorials

INTORODUCTION

We would like to take a moment to thank you for purchasing KURZWEIL product. We know you don't like reading owners manuals, but you've just purchased one of the finest portable amplifiers, and we want to tell you about it. So, before you plug in and start popping and slapping, we'd like to suggest you take just a few moments out to scan these pages.

KST300A is designed by dual channel Class D power amplifier chip, its actual power is 24W(12W+12W), which would increase the efficiency and durability of your battery.
KST300A includes two matched 6.5" 4Ohm speakers and one 3" 4Ohm speaker in a specially designed cabinet and its dual audio channel design brings you with stereo like effect.

Built-in battery and its small size, making the amp very convenient to carry and enable you to use it in any occasions!
Featured with Aux and Player function, it will be your perfect companion.

KST300A wireless receiver section, using VHF200-270MHz frequency range, is designed with quartz oscillator circuit, which ensures high frequency stability and interference.

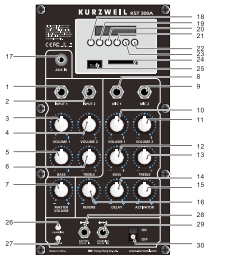
In these pages, you'll find a detailed description of the many features of your KST300A portable Amplifier, as well as a guided tour through its front and rear panels, step-by-step instructions for setting up and using the amp.
Additional, please try to check out our website www.kurzweil.com for complete information about our full product line.

Important Notes

- Please read all instructions before operating the unit.
- Clean only with a dry cloth.
- Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
- Do not locate near any heat sources such as radiators, heat sources, stoves or other apparatus that produce heat.
- Protect the power cord form being walked on and pinched particularly at plugs, convenience receptacles and at the point at which they exit from the unit.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this unit during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing are required when the unit has been damaged such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen in to the unit, the unit has been exposed to rain or moisture, don't operate normally, or has been dropped.

GUIDED TOUR-FRONT PANEL

1. **INPUT 1**
   Guitar Input Jack 1.
2. **INPUT 2**
   Guitar Input Jack 2.
3. **VOLUME 1**
   Adjusts Guitar Input 1 volume.
4. **VOLUME 2**
   Adjusts Guitar Input 2 volume.
5. **BASS Knob**
   Adjusts the lower range of Guitar input.
6. **TREBLE Knob**
   Adjusts the upper range of Guitar input.
7. **MASTER VOLUME**
   Controls the MIC and Guitar input.
8. **MIC 1**
   MIC Input Jack 1.
9. **MIC 2**
   MIC Input Jack 2.
10. **VOLUME 1**
    Adjusts MIC 1 input volume.
11. **VOLUME 2**
    Adjusts MIC 2 input volume.
12. **BASS Knob**
    Adjusts the lower range of MIC in.
13. **TREBLE Knob**
    Adjusts the upper range of MIC in.
14. **DELAY Knob**
    Adjusts the delay effects.
15. **ACTIVATOR Knob**
    Boosts the treble and creates a crisper, more harmonic overtone for your Microphone, it is generally used more when performing in larger venues.



16. **REVERB Knob**
    Adjusts the reverb effects.
17. **AUX IN Jack**
    Connects with a CD player, digital audio player or other kind of device and have it play along with your guitar.
18. **PLAY/PAUSE**
    Presses to play or pause when music is on, While in FM mode, it will search for radios when you press the button.
19. **PREVIOUME−**
    When playing music, Short press to the last song, long press to adjust the volume.
    When in FM mode, short press to the last radio, long press to adjust the volume.
20. **NEXTVOLUME+**
    When playing music, Short press to the next song, long press to adjust the volume.
    When in FM mode, short press to the next radio, long press to adjust the volume.
21. **REPEAT**
    When playing music, Presses to switch the mode between all songs repeat and single song repeat.
22. **MODE**
    Presses the button to switch the modes among USB, SD, AUX and FM.
23. **EQ**
    Presses the button to choose 5 included sound effects of "NORMAL", "JAZZ", "ROCK", "POP", "CLASSIC".
24. **SD/MMC CARD INPUT JACK**
    Plugs your SD card here to play music automatically, it can play songs with formats of MP1 Layer3, MP2 Layer3 and MP3 Layer3.
25. **USB**
    Supports MP3 file playback.
26. **CHARGING INDICATOR LIGHT**
    Illuminates red when it is charging and the light turns off when it is fully charged.
27. **POWER LED/LOWER BATTERY LED**
    Illuminates red when your amp is on. If the LED glows blue while playing, the battery should be recharged immediately.
28. **BATTERY DC12V IN**
    Jack for external battery, you can choose to connect a 12V external battery to power the amp if the built-in battery has low voltages. Before connecting, please note that the polarity of this Jack is negative outside, otherwise the unit won't work.
29. **DC 15V Jack**
    The external adapter connects here to charge the battery, the charge light on indicating that the unit is charging and the light goes out until it is fully charged, Recharging the battery takes approximately 6 hours.
30. **ON/OFF**
    Turns the unit ON and OFF.

APPLICATIONS

Music accompaniment
Outdoor exercise accompaniment
Outdoor performance
Meeting amplification

Guitar and Microphone can be used simultaneously

- Connect one guitar to one of the Guitar Input Jacks.
- Connect one Microphone to one of the Microphone. Input Jacks

Store or exhibition sales promotion
Street dancer accompaniment
Bonfire rally amplification

Guitar can be used simultaneously

- Connect one guitar to one of the Guitar Input Jacks.
- Connect another guitar to the other Guitar Input Jack.

BATTERY MAINTENANCE

When your Amp is turned on, the power LED becomes blue indicating that the battery need to be recharged immediately, at this time you need to turn off the amp, connect the power cable with adapter and plug inn to DC15V Jack, the power LED and Charge Indicator light illuminate red indicating the AMP is charging, Further, it is allowed to operate the unit while it is recharging.

NOTICE : Please don't disconnect the power when it is charging, Otherwise it will lessen the battery's life.

1. If your Amp is stored for an extended period of time, the battery should be recharged every 2 months otherwise permanent loss of capacity may occur.
2. If after normal use and maintenance the playing time drops below 1 hour, it may be time to replace the battery.
3. Don't place the amplifier upside down or he battery liquid will run out and may damage the battery.

HANDHELD WIRELESS MICROPHONE

With the wireless microphone POWER ON/OFF Switch in the OFF position, remove the end cap, Observing the battery polarities, insert the two 1.5-volt batteries in the COMPARTMENT, Or it may destroy the microphone box, Switch the power in the middle, battery indicator light red momentarily indicates it is MUTE mode, there is no signal out from the MIC, when switch to the top, the battery indicator light red momentarily indicates it is ON, your MIC is activated, and you can adjust the VOLUME 1 to control the loudness.

Note : When operating distance become close or the sound quality is becoming bad, you need to replace the battery, otherwise it won't work properly.

WAIST HANGING WIRELESS MICROPHONE

Place your wireless microphone in front of you, with the wireless microphone POWER ON/OFF Switch in the OFF position, open the BATTERY DOOR by pulling up the arrows on both sides of the battery door, observing the battery polarities and insert two 1.5-volt batteries to the COMPARTMENT, otherwise it may destroy the microphone box, Put the power switch to S.T positionm the LED indicator light red momentarily indicates it is MUTE mode; there is no signal out from the MIC.

When switch to ON, your MIC is activated and you can switch the VOLUME 1 of the AMP to adjust the loudness, Meanwhile you could select to adjust the GAIN ADJUST of your Waist hanging wireless Microphone to get your desired loudness.

Note : When operating distance is become close or the sound quality is becoming bad, you need to replace the battery, otherwise it won't work properly.

SPECIFICATION

Main Unit

Frequency Response : 70Hz - 18kHz
Actual Power : 24W (12W + 12W)
Impedance : 4Ohms
Sensitivity : 95dB (1W/1M)
Power Supply : AC In 100 - 240V 50/60Hz
DC Out 15V/4A
DC Voltage : 12V 7.0 Ah (Lead-acid battery)
Maximum Current consumption : 3.5A
Net Weight : 9.82Kg
Dimensions : 290*390*185mm

Input Sensitivity

Guitar Input 1 : -20dBu
Guitar Input 2 : -20dBu
MIC 1 : −35 dBu
MIC 2 : −35 dBu

Wireless Microphone Receiver

Supply Voltage : 9V
mA : 100 mA ± 30mA
Interference Ratio : >70dB
Consuming Current : 3W
Signal-to-Noise Ratio : 80dB
Adjacent Channel Interference Ratio : >65dB
Receiving Sensitivity : -93dB
De-emphasis : 50uS

Wireless Microphone Transmitter

Supply Voltage : 3V
mA : 90mA ± 30mA
Frequency Stability : 0.05% (20PPM)
Transmitting Output Power : ± 10dB
Modulation Type : FM Tuning
Maximum Modulation : ± 25kHz
Total Harmonic Distortion : < 40dB
Pre-emphasis : 50uS

IPLV

Carrier : VHF200-270MHz
Harmonic Distance : < 1%
Frequency Stability : < ± 20PPM
Dynamic Range : > 90dB
Frequency Response : 60Hz – 12kHz ± 3dB
Audio Output : 0 ~ ± 650mV
Environmental Temperature : -10℃ ~ +50℃
Operating Distance : 50m

Accessories

Handheld Wireless Microphone 1pcs
Waist Hanging Wireless Microphone 1pcs
Power Cable 1pcs
Power Adapter 1pcs
1.5V Battery 4pcs
User Manual 1pcs