

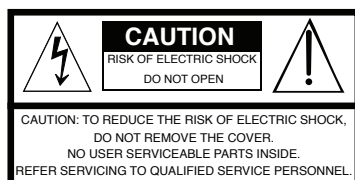
**KURZWEIL®**

***KS-50A***

USER'S  
MANUAL

English Manual

**HDC YOUNG CHANG**



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 adaptor 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 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 présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe B prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère 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.

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# Kurzweil International Contacts

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Email: [info@americanmusicandsound.com](mailto:info@americanmusicandsound.com)

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[www.facebook.com/kurzweilmusicsystems/](http://www.facebook.com/kurzweilmusicsystems/)



[www.twitter.com/KurzweilMusic](http://www.twitter.com/KurzweilMusic)



[www.youtube.com/user/KurzweilTutorials](http://www.youtube.com/user/KurzweilTutorials)

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## 1. Introduction

Congratulations on your purchase of the KURZWEIL KS-50A.

The KS-50A top quality near field reference monitor has been developed especially for high level home studios and special project studios. They take 5" near field monitoring speakers to a new level, boasting an ultra-flat low frequency response and a top quality kevlar 5" driver delivering unparalleled punch in the low-mid frequency – a major improvement over the paper and polypropylene drivers used in most comparable products. KS-50A is perfect to provide the best output signal and frequency response 100% matching the installed drivers and cabinet design. KS-50A is magnetically shielded for desktop operation next to your other electronic equipment without interference.

## 2. Basics & Installation

For optimal performance of KS-50A, read the instructions in this manual carefully before using the speakers.

### Unpacking / Handling

To remove the monitor from the carton, it is best to turn the package carefully upside down on the floor or on a table and then lift the carton up slowly to leave the monitor resting in the packaging foam. To avoid damage, make sure that you don't grab the speaker driver units on the front of the monitors. Check the monitor for signs of damage that might have occurred in shipping. In the unlikely event of damage, please contact the reseller of the product immediately. Be careful when you remove the packaging foam. Please keep all packing materials.

### Connection

High quality XLR balanced or TS unbalanced audio cables are recommended for input connection. The monitor typically connects to the line level output of a mixing console or computer audio card. Make sure the power of the monitor is switched off before you connect any audio cables. Also turn down the volume initially.

#### XLR balanced connection

Connect the male side of a XLR balanced cable to the balanced XLR input of KS-50A. Make sure the power cable is connected as well. Setup all speakers (i.e. left / right channels) with the same type of cable.

#### TS unbalanced connection

Connect a TS unbalanced cable to the input jack of KS-50A. Make sure the power cable is connected as well. Setup all speakers (i.e. left / right channels) with the same type of cable.

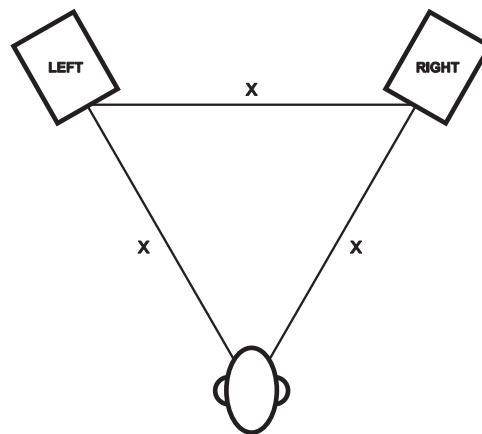
### 3. Placement

The placement of monitoring speakers is very critical and can compromise their performance. This is a general rule for every loudspeaker. To monitor with KS-50A utilizing their maximum capabilities, an appropriate listening environment and correct placement are important.

Typically you would be using 2 units of KS-50A as one stereo pair – or more in surround setups (i.e. in a 5.1 setup you would use 5 units of KS-50A together with a subwoofer).

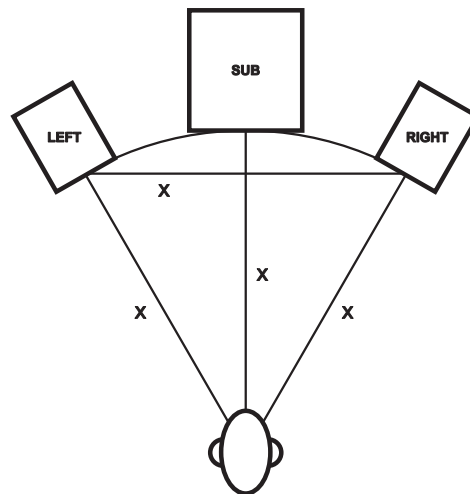
#### Stereo / 2.0 Positioning

In a stereo setup, the listener and speakers should be positioned in a triangle formation. Please refer to the following diagram to understand how to position your monitors. Each distance  $x$  should be identical.



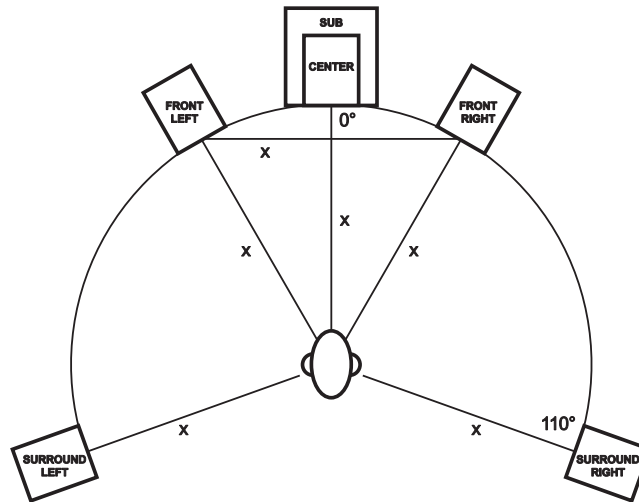
#### Stereo with Subwoofer / 2.1 Positioning

In a stereo setup with an added subwoofer, the subwoofer speaker should be positioned ideally in the exact middle in front of the listener (with the same distance  $x$ ). If this is not possible, it should be as close to that position as possible.



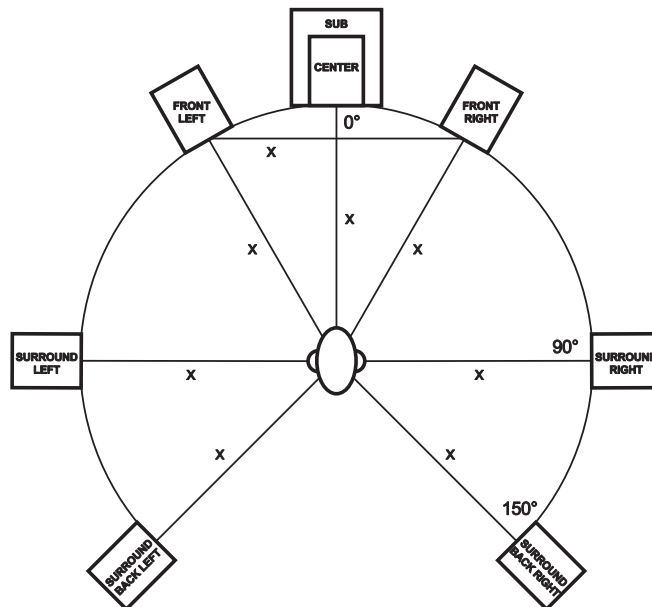
## 5.1 Positioning

In a 5.1 surround set, the center speaker should ideally be placed on top of the subwoofer. If this is not possible, the subwoofer can be moved to the left or right but should be as close as possible. The rear surround speakers should be positioned around  $110^\circ$  from the center speaker (all with the same distance  $x$ ).



## 7.1 Positioning

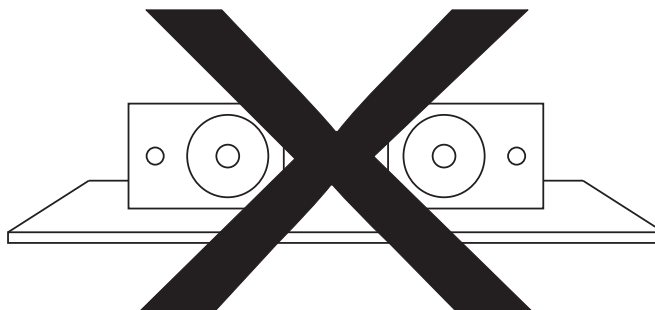
In a 7.1 surround set, the center speaker should also ideally be placed on top of the subwoofer or as close as possible. The surround speakers are best placed  $90^\circ$  from the center speaker and the back surround speakers are best placed  $135^\circ$  to  $150^\circ$  from the center speaker. All speakers should be placed with the same distance  $x$  to the listener.





## Orientation

It's very important to place the KS-50A vertically. Never place them horizontally.



## Comments

Please make sure to not place any obstacles that may block the flow of air or that could generate sound reflections (especially highly reflective material including glass or metal) in front of the monitor. Also, don't put objects on top of your monitors. Keep some space between speaker and the wall behind the speaker, so as not to block air flow.

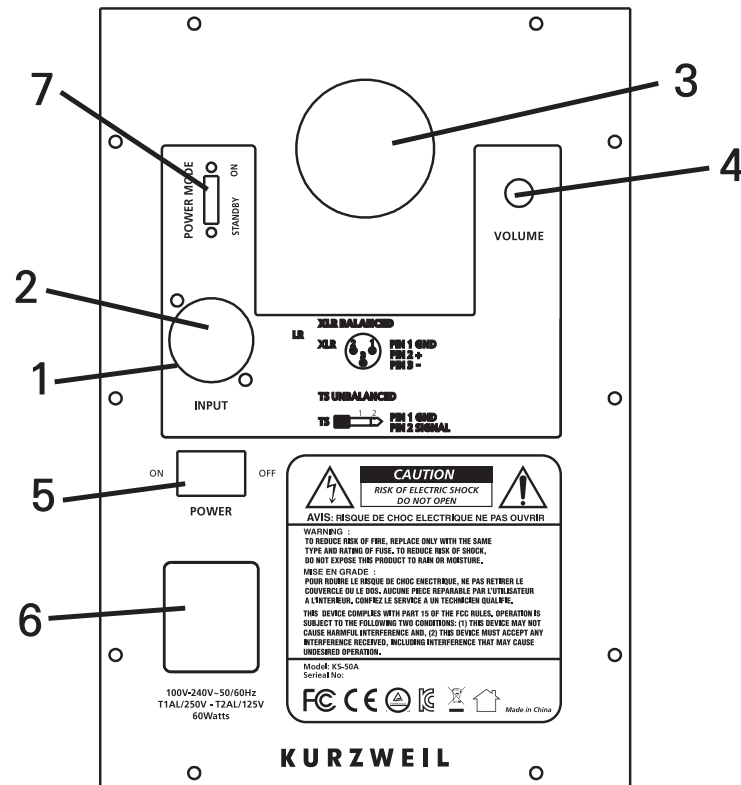
## 4. Technical Data

Please note that technical specifications are subject to change without any prior notice. The specs given in this manual are up-to-date at the time of the creation of this document.

### Specifications

Model:	KS-50A
Type:	2-way powered speaker
System Type:	Active Studio Monitor Speaker
Dimensions:	250mm (H) x 176mm (W) x 200mm (D)
Weight:	4.5kg
HF Driver:	1" silk dome tweeter
LF Driver:	5" kevlar curved cone (magnetic shielding type)
Output Power:	60W (HF 30W, LF 30W), 85W AC consumption power
Working Voltage:	AC100-240V 50/60Hz, with 115V / 230V AC selection switch
Frequency Response:	50 Hz – 20kHz
Input Impedance:	23.3 kOhm balanced, 13.3 kOhm unbalanced
Crossover Point:	2.5kHz
SPL:	88dB+/- 3dB
Rated Noise Power:	30 Watt (THD=1%, 4ohm@1kHz)
Input Sensitivity:	75mV@1Watt, 415mV@30Watt
Input Connectors:	XLR / TS1/4" combo connector, balanced / unbalanced input
Volume Control:	min - center - max
Indicator:	power LED on front panel, blue

## Rear Panel



**1. XLR input** – this connector accepts balanced XLR input connections (optimised for +4dBu). XLR input is wired like this:

INPUT SIGNAL	XLR CONNECTIONS
+	PIN 2
-	PIN 3
Shield	PIN 1

**2. TS input** – this jack accepts TS input connections, unbalanced (optimised for -10dBV). The TS input is wired like this:

INPUT SIGNAL	TRS CONNECTIONS
Signal	Tip
Shield	Sleeve

The TS input should not be used with balanced TRS signals. Although this is possible, the input level will not be correct in that case. For balanced connection, please use a XLR cable whenever possible.

**3. Vent Port** – KS-50A is a vented box speaker system with a vent port on the rear panel. Make sure you are not blocking the vent port (i.e. by putting the speaker too close to a wall) or the sound color will be changed.

**4. Volume Control Knob** – Use the volume control knob to set the proper input level from the sound source. Make sure to setup all speakers accordingly. When set to the center position, the output level is set to the recommended calibrated level to reach the most optimised dynamic response (expecting a balanced XLR +4dBu or unbalanced TS -10dBV input signal).

**5. Power Switch** – Use the power switch to power KS-50A on or off.

**6. Power Port with Ext. Fuse** – Use this connector to plug in the power cord that connects to the power outlet. The connector contains a replaceable fuse (T1AL250V).

**7. Power Mode Switch** – You can select either *STANDBY* or *ON*. When set to *ON*, the unit will always be turned on. When set to *STANDBY*, the unit will switch to power saving mode after a while without any audio signal. The power saving mode is indicated by a red LED on the front panel (instead of the blue power LED). When there is an audio signal again, regular operation resumes. Please note that the *POWER MODE* switch is only available in models sold in certain countries.

## 5. General Information

### Trademarks

KURZWEIL, KS-50A are trademarks of HDC YOUNG CHANG. Other product and brand names are trademarks or registered trademarks of their respective companies.

### Correspondence

For technical support inquiries, contact your nearest dealer, local distributor or KURZWEIL support online at [www.kurzweil.com](http://www.kurzweil.com).

### Disclaimer

All features and specifications subject to change without notice. Please check our web site [www.kurzweil.com](http://www.kurzweil.com) for the most recent information.

# KURZWEIL®

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