

Professional Audio

KOS Satelite Set
KOS Sub





USER MANUAL

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USING THE UNIT SAFELY


















INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

About WARNING and CAUTION Notices		About the Symbols	
 WARNING	Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly.		This symbol alerts the user to important instructions or warnings.
 CAUTION	Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly.		This symbol alerts the user to items that must never be carried out (are forbidden).

ALWAYS OBSERVE THE FOLLOWING

WARNING		WARNING	
	Before using this unit, make sure to read the instructions below, and the Owner's Manual.		Use only the attached power-supply cord. Also, the supplied power cord must not be used with any other device.
	Do not open (or modify in any way) the unit or its AC adaptor.		Do not excessively twist or bend the power cord, nor place heavy objects on it. Doing so can damage the cord, producing severed elements and short circuits. Damaged cords are fire and shock hazards.
	Do not attempt to repair the unit, or replace parts within it(except when this manual provides specific instructions directing you to do so). Refer all servicing to your retailer or the nearest authorized Service Center.		This unit, either alone or in combination with an amplifier and headphones or speakers, 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 immediately stop using the unit, and consult an audiologist.
	Never use or store the unit in places that are: <ul style="list-style-type: none"> ●Subject to temperature extremes(e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heat-generating equipment); or are ●Damp and humid(e.g., baths, washrooms, on wet floors); or are ●Exposed to rain; or are ●Dusty; or are ●Subject to high levels of vibration. 		Do not allow any objects (e.g., flammable material, coins, pins); or liquids of any kind (water, soft drinks, etc.) to penetrate the unit.
	Make sure you always have the unit placed so it is level and sure to remain stable. Never place it on stands that could wobble, or on inclined surfaces.		Immediately turn the power off, remove the AC adaptor from the outlet, and request servicing by your retailer or the nearest authorized Service Center when:
	Be sure to use only the AC adaptor supplied with the unit. Also, make sure the line voltage at the installation matches the input voltage specified on the AC adaptor's body.		<ul style="list-style-type: none"> The AC adaptor, the power-supply cord, or the plug has been damaged; or If smoke or unusual odor occurs Objects have fallen into, or liquid has been spilled onto the unit; or The unit has been exposed to rain (or otherwise has become wet); or The unit does not appear to operate normally or exhibits a marked change in performance.

USING THE UNIT SAFELY

WARNING		CAUTION	
	Protect the unit from strong impact. (Do not drop it!)		Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of the reach of children.
	Do not force the unit's power-supply cord to share an outlet with an unreasonable number of other devices. Be especially careful when using extension cords-the total power used by all devices you have connected to the extension cord's outlet must never exceed the power rating (watts/amperes) for the extension cord. Excessive loads can cause the insulation on the cord to heat up and eventually melt through.		Never climb on top of, nor place heavy objects on the unit.
	Before using the unit in a foreign country, consult with your retailer or the nearest authorized Service Center.		Never handle the AC adaptor or its plugs with wet hands when plugging into, or unplugging from, an outlet or this unit.
	Batteries must never be recharged, heated, taken apart, or thrown into fire or water.		Before moving the unit, disconnect the AC adaptor and all cords coming from external devices.
	Only switching off the unit and unplugging from an outlet, the unit is powered off completely.		Before cleaning the unit, turn off the power and unplug the AC adaptor from the outlet.
	The unit and the AC adaptor should be located so their location or position does not interfere with their proper ventilation.		Whenever you suspect the possibility of lightning in your area, disconnect the AC adaptor from the outlet.
	Always grasp only the plug on the AC adaptor cord when plugging into, or unplugging from, an outlet or this unit.		<p>If used improperly, batteries may explode or leak and cause damage or injury. In the interest of safety, please read and observe the following precautions.</p> <ul style="list-style-type: none"> ● Carefully follow the installation instructions for batteries, and make sure you observe the correct polarity. ● Avoid using new batteries together with used ones. ● If a battery has leaked, use a soft piece of cloth or paper towel to wipe all remnants of the discharge from the battery compartment. Then install new batteries. To avoid inflammation of the skin, make sure that none of the battery discharge gets onto your hands or skin. Exercise the utmost caution so that none of the discharge gets near your eyes. Immediately rinse the affected area with running water if any of the discharge has entered the eyes. ● Never keep batteries together with metallic objects such as ballpoint pens, necklaces, hairpins, etc. ● Dispose of the waste battery according to national or local regulations regarding hazardous waste.
	At regular intervals, you should unplug the AC adaptor and clean it by using a dry cloth to wipe all dust and other accumulations away from its prongs. Also, disconnect the power plug from the power outlet whenever the unit is to remain unused for an extended period of time. Any accumulation of dust between the power plug and the power outlet can result in poor insulation and lead to fire.		Should you remove screws, keep them in a safe place out of children's reach, so there is no chance of them being swallowed accidentally.
			Shock hazardous voltages and currents are present inside the enclosure. Do not remove and replace the speaker grill and speaker by any means.

USING THE UNIT SAFELY

IMPORTANT NOTES

Power Supply: Use of Batteries

- Do not connect this unit to same electrical outlet that is being used by an electrical appliance that is controlled by an inverter (such as a refrigerator, washing machine, microwave oven, or air conditioner), or that contains a motor. Depending on the way in which the electrical appliance is used, power supply noise may cause this unit to malfunction or may produce audible noise. If it is not practical to use a separate electrical outlet, connect a power supply noise filter between this unit and the electrical outlet.
- The AC adaptor will begin to generate heat after long hours of consecutive use. This is normal, and is not a cause for concern.
- When installing or replacing batteries, always turn off the power on this unit and disconnect any other devices you may have connected. This way, you can prevent malfunction and /or damage to speakers or other devices.
- Use only suitable rechargeable batteries of the same size and type. Make sure the polarity is correct. Or it may cause this unit to malfunction.
- Please charge the battery as soon as you can when in low energy. The battery's storage capacity goes down if not using it for a long time.

Note: Please charge the battery once a month regularly if not using it for long period.

Placement

- Using the unit near power amplifier (or other equipment containing large power transformers) may induce hum. To alleviate the problem, change the orientation of this unit; or move it farther away from the source of interference.
- This device may interfere with radio and television reception. Do not use this device in the vicinity of such receivers.
- Noise may be produced if wireless communications devices, such as cell phones, are operated in the vicinity of this unit. Such noise could occur when receiving or initiating a call, or while conversing. Should you experience such problems, you should relocate such wireless devices so they are at a greater distance from this unit, or switch them off.
- Do not expose the unit to direct sunlight, place it near devices that radiate heat, leave it inside an enclosed vehicle, or otherwise subject it to temperature extremes. Also, do not allow lighting devices that normally are used while their light source is very close to the unit (such as a piano light), or powerful spotlights to shine upon the same area of the unit for extended periods of time. Excessive heat can deform or discolor the unit.

IMPORTANT NOTES

- When moved from one location to another where the temperature and /or humidity is very different, water droplets (condensation) may form inside the unit, you must allow it to stand for several hours, until the condensation has completely evaporated.
- Do not allow rubber, vinyl, or similar materials to remain on the unit for long periods of time. Such objects can discolor or otherwise harmfully affect the finish.
- Do not paste stickers, decals, or the like to this instrument. Peeling such matter off the instrument may damage the exterior finish.

Maintenance

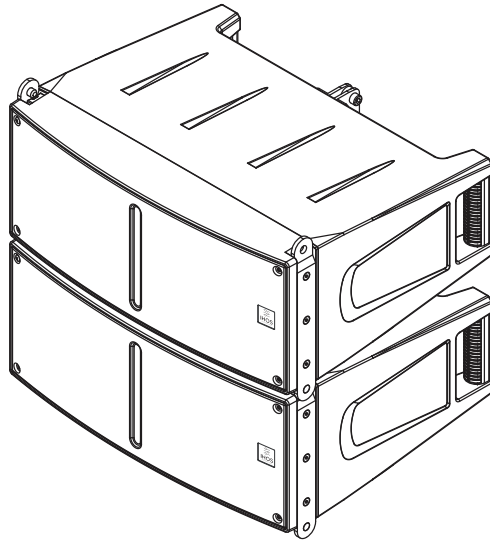
- For everyday cleaning wipe the unit with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use a cloth impregnated with a mild, non-abrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.
- Never use benzine, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

Additional Precautions

- Use a reasonable amount of care when using the unit's buttons, sliders, or other controls; and when using its jacks and connectors. Rough handling can lead to malfunctions.
- When connecting/disconnecting all cables, grasp the connector itself-never pull on the cable. This way you will avoid causing shorts, or damage to the cable's internal elements.
- To avoid disturbing your neighbors, try to keep the unit's volume at reasonable levels (especially when it is late at night or near specific places like schools or hospitals).
- When you need to transport the unit, package it in the box (including padding) that it came in, if possible. Otherwise, you will need to use equivalent packaging materials.
- Some connection cables contain resistors. Do not use cables that incorporate resistors for connecting to this unit. The use of such cables can cause the sound level to be extremely low, or impossible to hear. For information on cable specifications, contact the manufacturer of the cable.

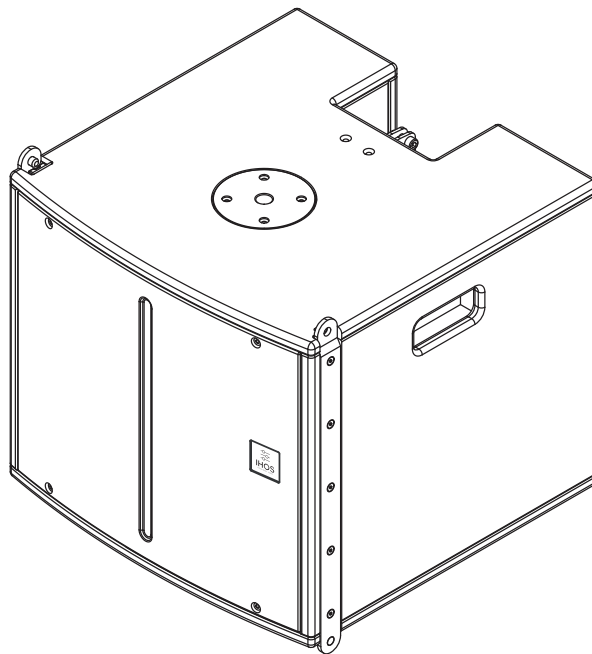
PRODUCT AND ACCESSORIES

PRODUCT AND ACCESSORIES



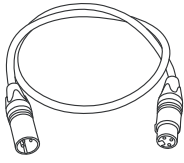
KOS Satellite Set*1 Manual*1

PRODUCT AND ACCESSORIES

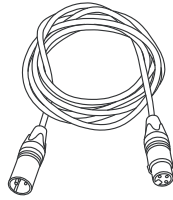


KOS Sub*1 Manual*1

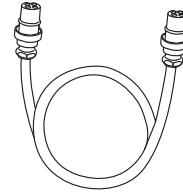
Optional Accessories



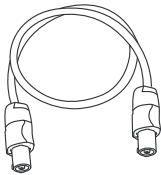
0.6M Signal Cable



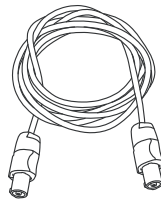
2M Signal Cable



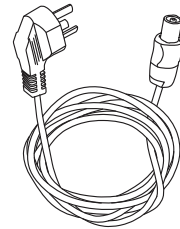
Cable*1



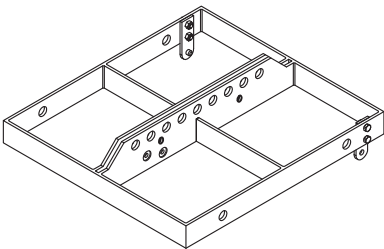
0.6M Power Cable



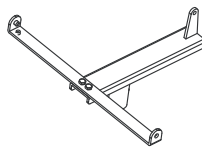
2M Power Cable



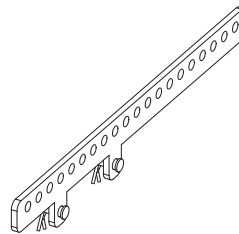
3M Power Cable*1



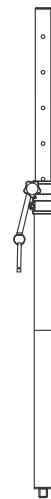
KOS Sub Flybar



KOS Pole Adaptor

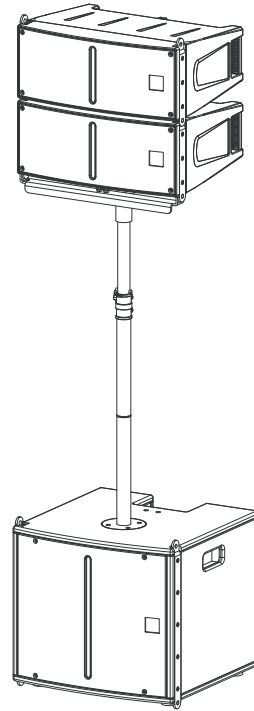
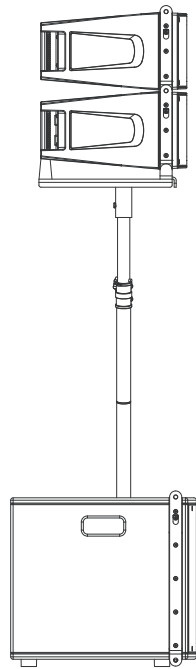


KOS Extension Hanger



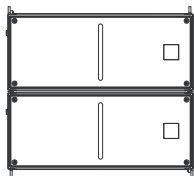
Pole

PRODUCT COMBINATION



COMBINATION 1

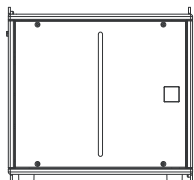
Recommended Configuration



KOS Satellite Set*1



Cable*1



KOS Sub*1



3M Power Cable



Pole



KOS Pole Set Adaptor

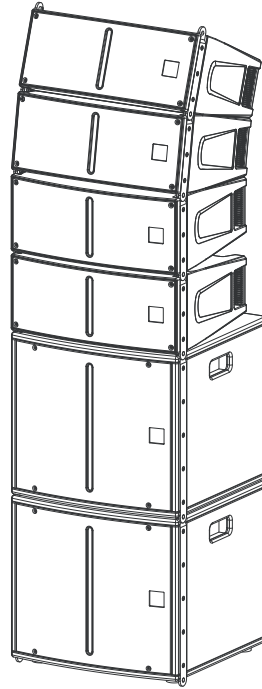
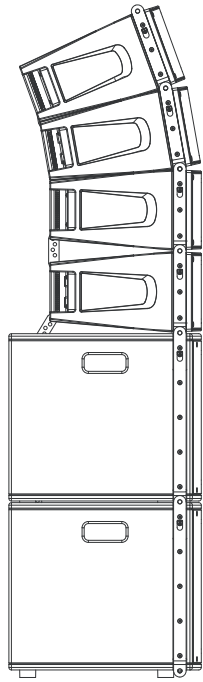


2M Signal Cable



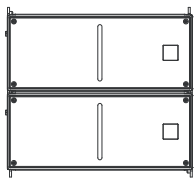
2M Power Cable

PRODUCT COMBINATION



COMBINATION 2

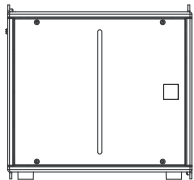
Recommended Configuration



KOS Satellite Set*2



Cable*2



KOS Sub*2



3M Power Cable

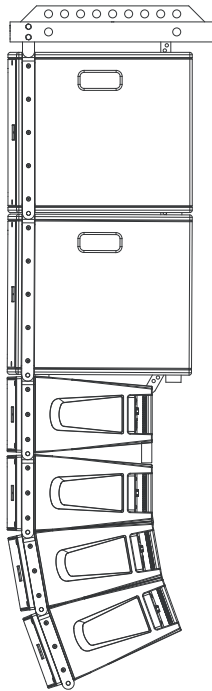
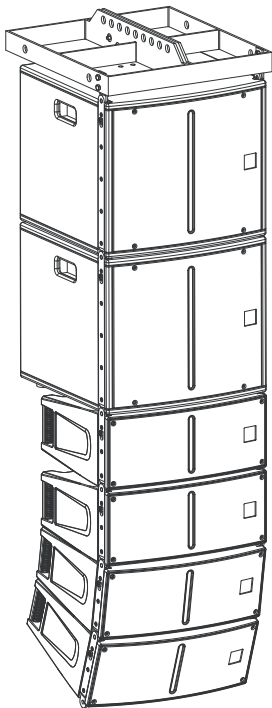


0.6M Signal Cable*3



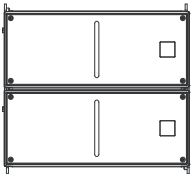
0.6M Power Cable*3

PRODUCT COMBINATION



COMBINATION 3

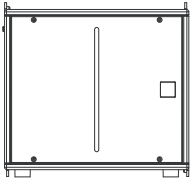
Recommended Configuration



KOS Satellite Set*2



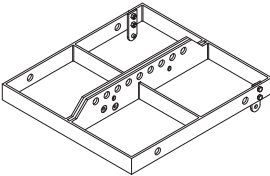
Cable*2



KOS Sub*2



3M Power Cable



KOS Flybar*1



0.6M Signal Cable*3

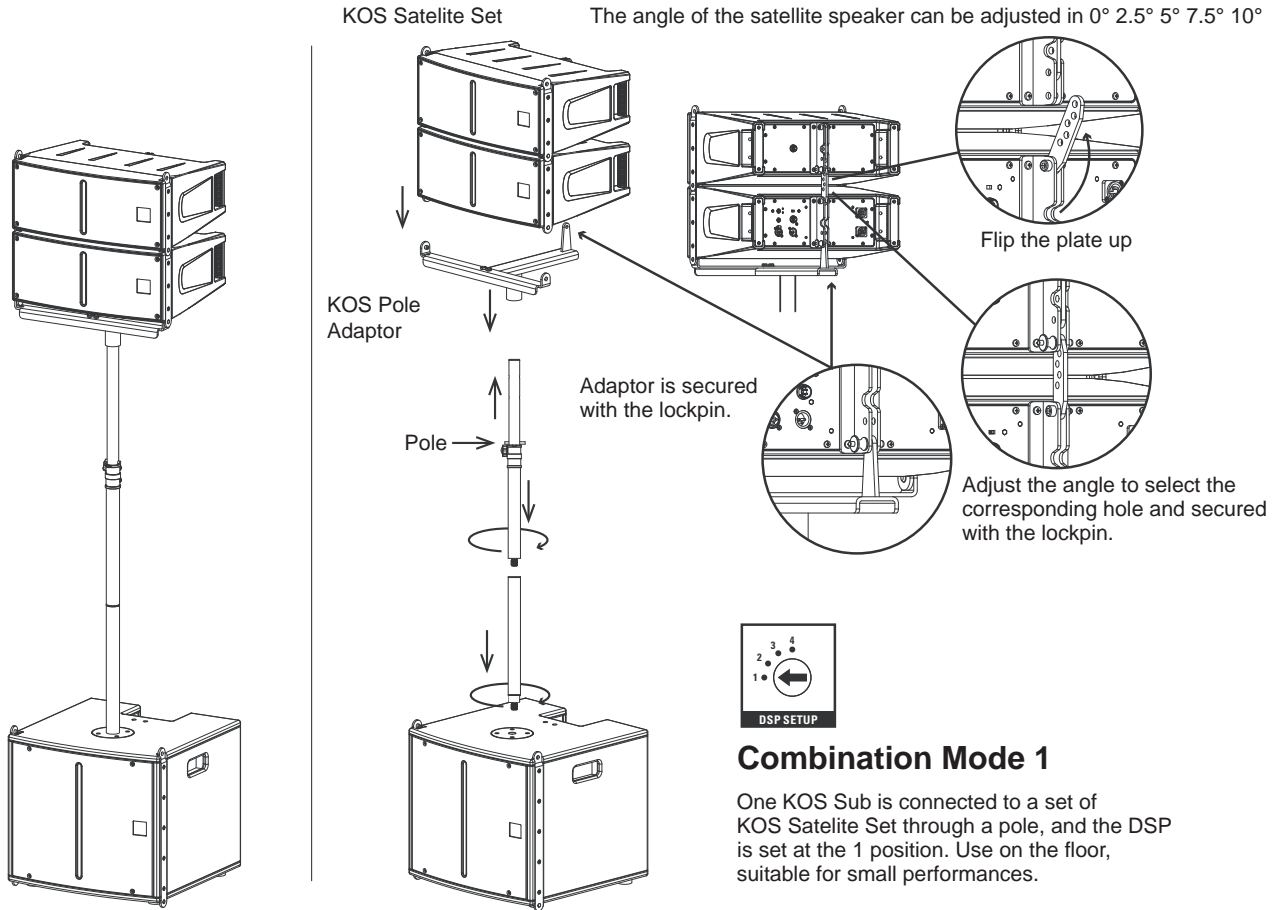


0.6M Power Cable*3

OPERATION AND CONNECTIONS

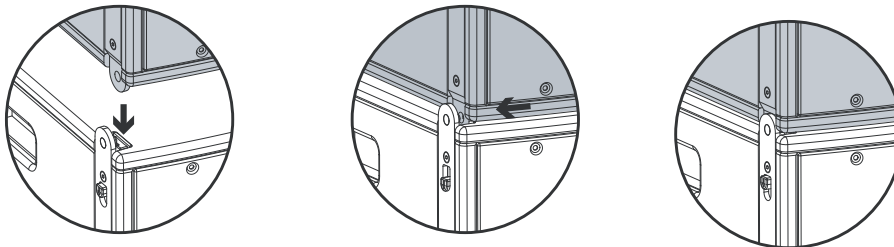
Angel Adjustment

The angle of the satellite speaker can be adjusted in 0° 2.5° 5° 7.5° 10°

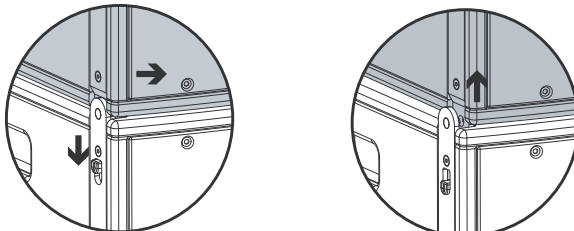


Connecting and Disassembling Method of Quick Locked Design

- Installation**
1. Align the connector on the upper speaker with the connector on the bottom speaker.
 2. Put the connector of the upper speaker into the lower connector and move it to the left.
 3. The lock is automatically locked to complete the installation.

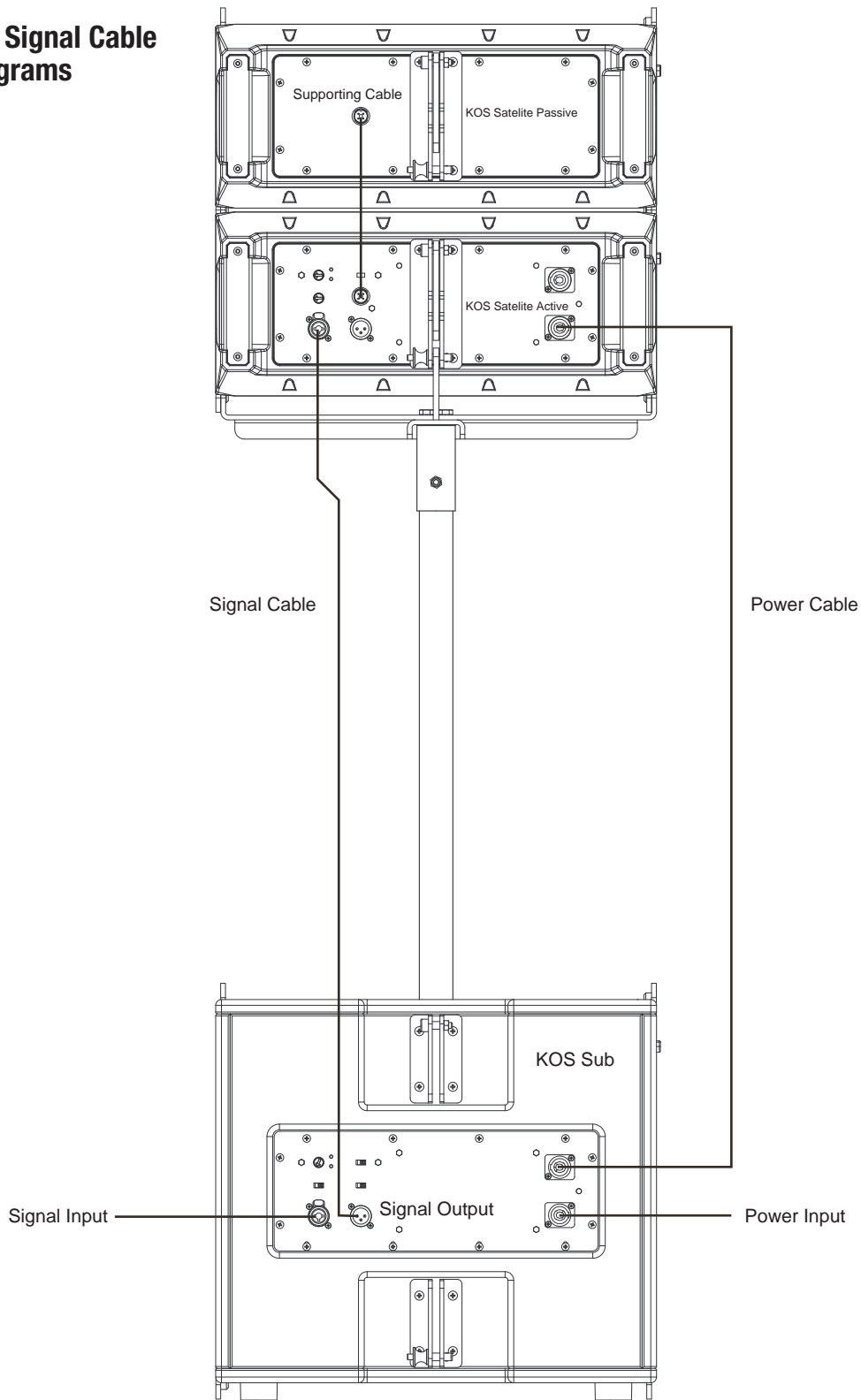


- Disassembly**
1. Pull the lock down, and move it to the right.
 2. Move up to remove the speaker.



OPERATION AND CONNECTIONS

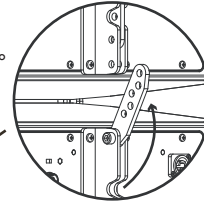
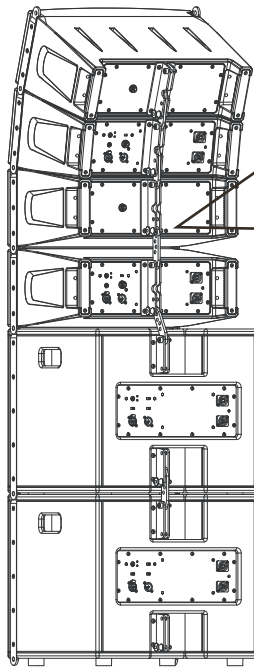
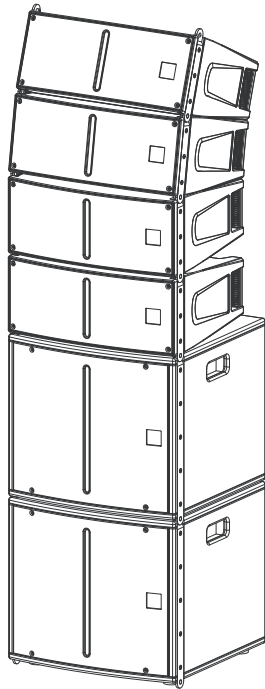
Power and Signal Cable Wiring Diagrams



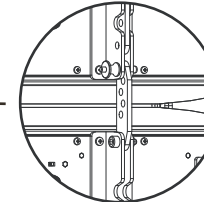
OPERATION AND CONNECTIONS

Angel Adjustment

The angle of the satellite speaker can be adjusted in 0° 2.5° 5° 7.5° 10°



Flip the plate up



Adjust the angle to select the corresponding hole and secured with the lockpin.

When stacking the second TB-112, please remove the four rubber feet of the upper one, and then lock the screws back to prevent air leakage.

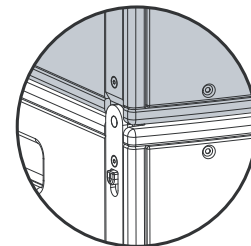
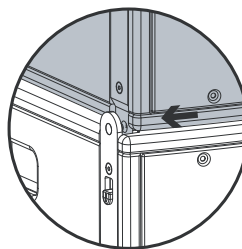
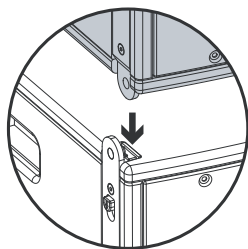


Combination Mode 2

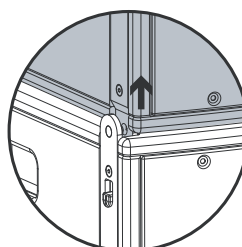
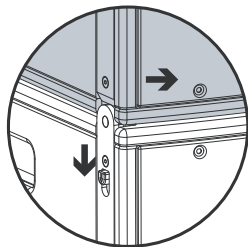
Two KOS Subs are connected to two sets of KOS Satellite Set, and the DSP is set at the 2 position.
Use on the floor, suitable for medium to large performances.

Connecting and Disassembling Method of Quick Locked Design

- Installation**
1. Align the connector on the upper speaker with the connector on the bottom speaker.
 2. Put the connector of the upper speaker into the lower connector and move it to the left.
 3. The lock is automatically locked to complete the installation.

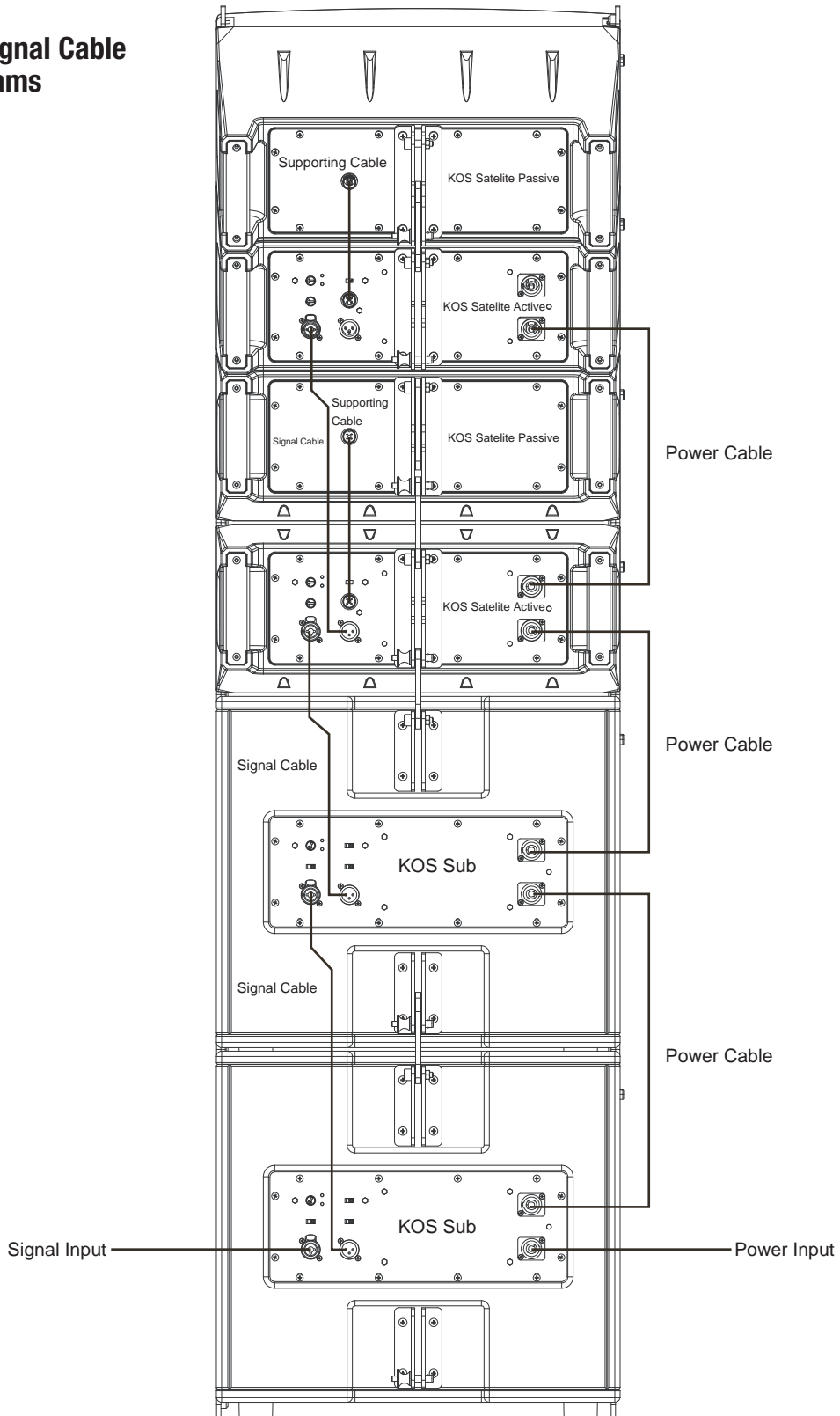


- Disassembly**
1. Pull the lock down, and move it to the right.
 2. Move up to remove the speaker.

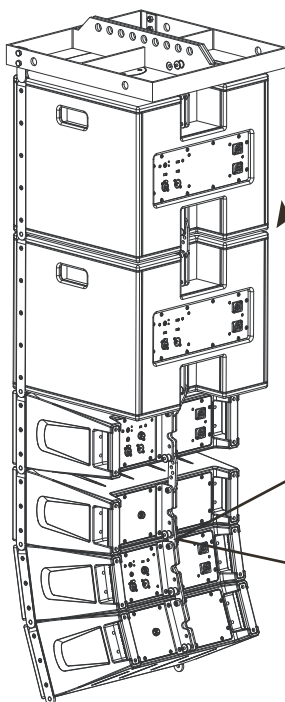
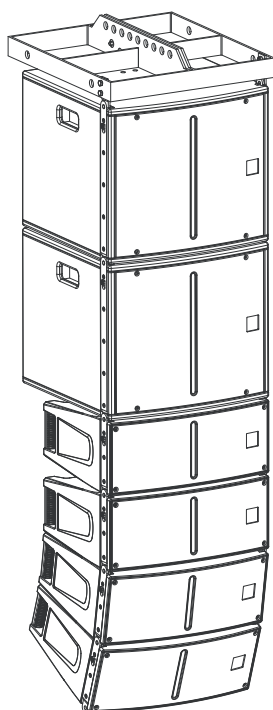


OPERATION AND CONNECTIONS

Power and Signal Cable Wiring Diagrams



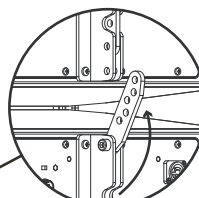
OPERATION AND CONNECTIONS



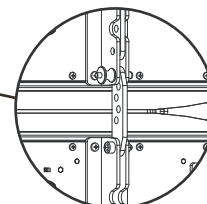
Please remove all the rubber feet of these two speakers, and then lock the screws back to prevent air leakage.

Angel Adjustment

The angle of the satellite speaker can be adjusted in 0° 2.5° 5° 7.5° 10°



Flip the plate up



Adjust the angle to select the corresponding hole and secured with the lockpin.



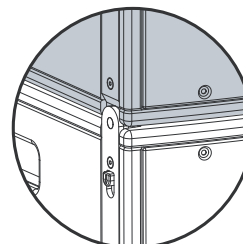
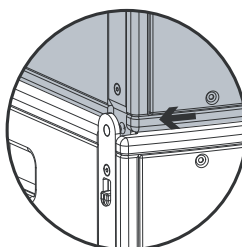
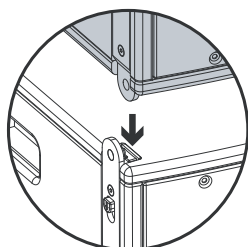
NEAR	NEAR
< 20m	> 20m
< 65ft	> 65ft
3	4

Combination Mode 3

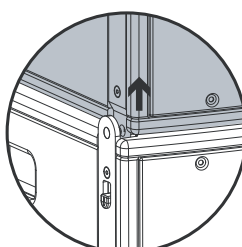
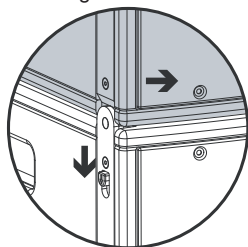
Two KOS Subs are connected to two sets of KOS Satellite Set, and the DSP is set at the 3 or 4 position. Use by flybar, suitable for medium to large performances.

Connecting and Disassembling Method of Quick Locked Design

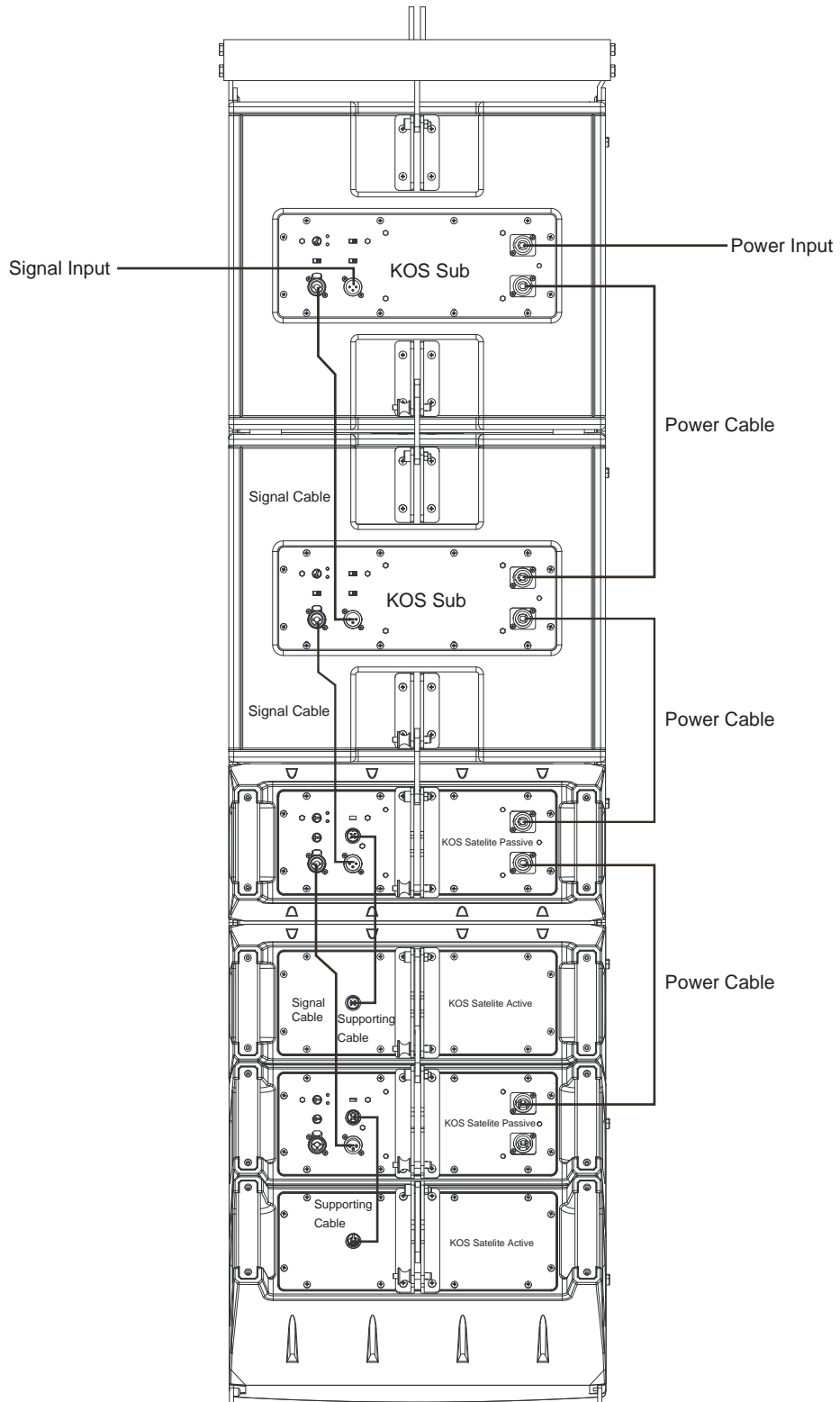
- Installation**
1. Align the connector on the upper speaker with the connector on the bottom speaker.
 2. Put the connector of the upper speaker into the lower connector and move it to the left.
 3. The lock is automatically locked to complete the installation.



- Disassembly**
1. Pull the lock down, and move it to the right.
 2. Move up to remove the speaker.

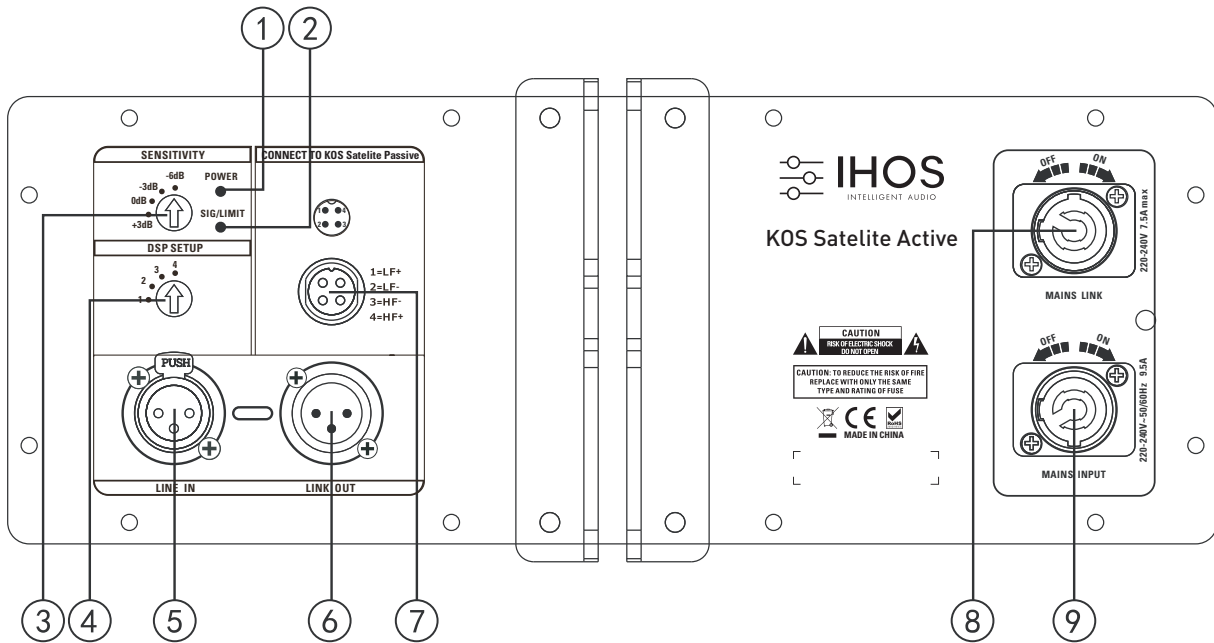
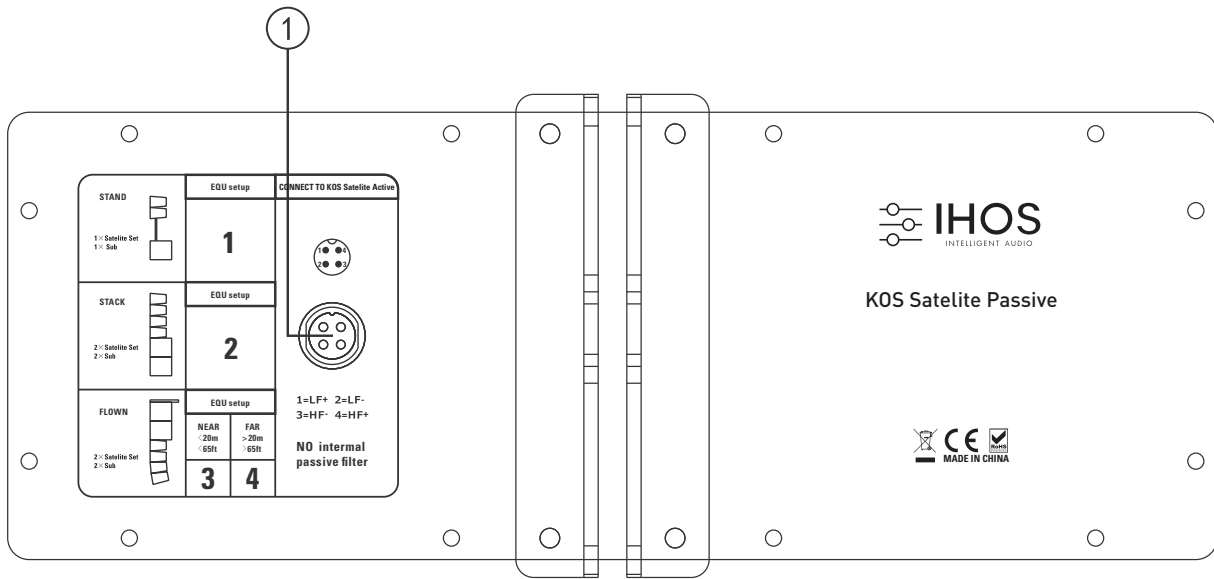


OPERATION AND CONNECTIONS



KOS Satellite Set PANEL FUNCTION INTRODUCTION

CONTROL PANEL

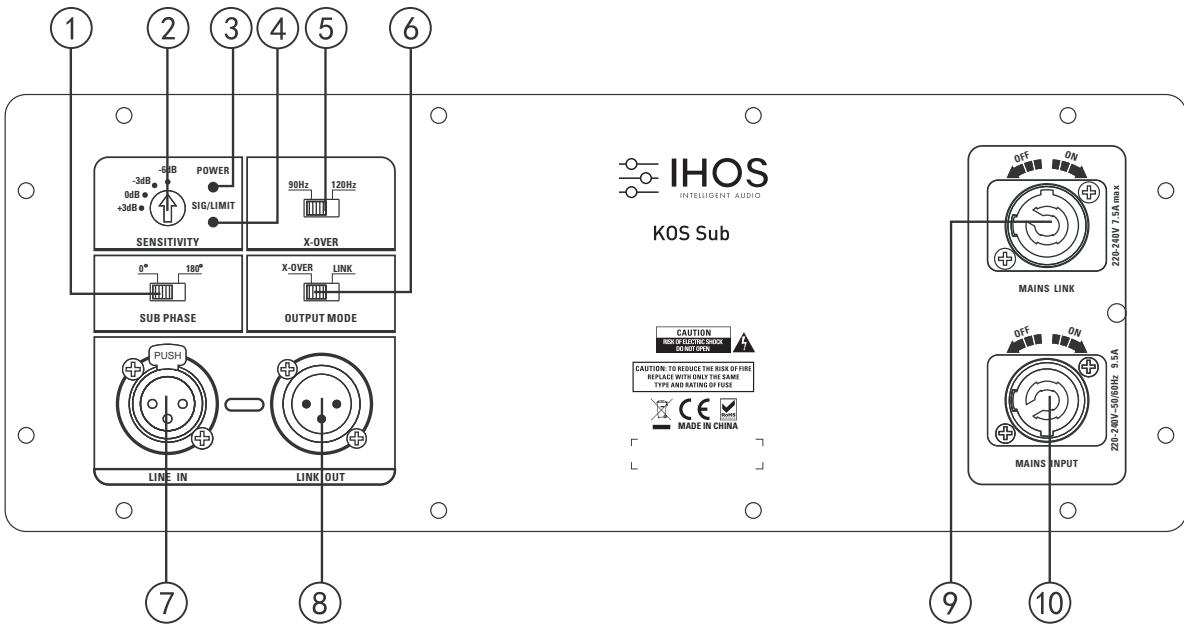


KOS Satelite Set PANEL FUNCTION INTRODUCTION

KOS Satelite Set PANEL FUNCTION INTRUDUCTIO	KOS Satelite Set PANEL FUNCTION INTRUDUCTIO
<p>1. Passive speaker signal input:</p> <p>This is KOS Satelite Set signal input port, please use the c cable to onnect this port to the output port of KOS Satelite Set (7).</p> <p>Note:</p> <ol style="list-style-type: none"> 1. Please use the supporting wire of this product, otherwise it will be silent or damage product. 2. This port is limited to using the KOS Satelite Set's amplifier signal output. 3. Before connecting KOS Satelite Set, please turn off the KOS Satelite Set. 	<p>1. Power</p> <p>When the machine is powered on, the indicator light is blue, indicating that the power supply of the machine is normal.</p> <p>2. SIG/LMIT</p> <p>When the machine is powered on and there is no power on signal, the light will not be on. When there is an input signal, the light will be green. When the machine reaches full power, the light will be red.</p> <p>3. Volume Control</p> <p>There are a total of 4 levels of input sensitivity adjustment, which only control the sensitivity of this product and supporting passive speakers. This does not affect the signal strength of LINKOUT (6).</p> <p>4. DSP Setup</p> <p>You can choose 4 DSP modes according to the actual use requirements: see the product combination for details.</p> <p>5. LINE IN</p> <p>Can be connected to a LINE via an XLR cable.</p> <p>6. LINE OUT</p> <p>The output signal can be connected to the signal input interface of another product through the XLR cable, and the output signal is the same as the input signal.</p> <p>7. Passive Speaker Signal Output</p> <p>This is KOS Satelite Set signal output port, please use the cable to connect this port to the input port of KOS Satelite Set (1).</p> <p>Note:</p> <ol style="list-style-type: none"> 1. Please use the supporting wire of this product, otherwise it will be silent or damage product. 2. This port is limited to using the KOS Satelite Set's amplifier signal output. 3. Before connecting KOS Satelite Set, please turn off the KOS Satelite Set. <p>8. MAINS LINK</p> <p>This product uses a POWERCON socket, which can be connected to the power input interface of another product, and the output is the same as the input voltage. Plug in the power cable and turn right to ON to turn the power on, turn left to OFF to turn it off. Please use the supporting power cable to connect.</p> <p>9. MAINS INPUT</p> <p>This product uses a POWERCON socket. The Applicable Voltage of is 220-240V~ 50/60Hz.</p>

KOS Sub PANEL FUNCTION INTRODUCTION

CONTROL PANEL



KOS Sub PANEL FUNCTION INTRODUCTION

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1. Phase

Through this switch, you can switch the output phase 0/180°, and only control the phase of the sound of this speaker.

2. Volume Control

There are a total of 4 levels of input sensitivity adjustment, which only control the sensitivity of this product and supporting KOS Satellite Set. This does not affect the signal strength of LINKOUT (8).

3. Power

When the machine is powered on, the indicator light is blue, indicating that the power supply of the machine is normal.

4. SIG/LIMIT

When the machine is powered on and there is no power on signal, the light will not be on. When there is an input signal, the light will be green. When the machine reaches full power, the light will be red.

Note: Please avoid the speaker being in the red light state for a long time!

5. X-OVER

When the switch is selected at 90Hz:

The frequency response of this subwoofer is 35-90Hz (not affected by the OUTPUT MODE switch).

The frequency range of the output signal of the signal output interface (8) is 90Hz-20KHz;

When the switch is selected at 120Hz:

The frequency response of this subwoofer is 35-120Hz (not affected by the OUTPUT MODE switch).

The frequency range of the output signal from the signal output interface (8) is 120Hz-20KHz.

6. Output Mode

When the switch selects LINK, the signal output (8) outputs the same signal as the input signal.

When the switch selects X-OVER, the output signal of the signal output (8) is controlled by the frequency response selection switch (5).

7. LINE IN

Can be connected to a LINE via an XLR cable.

8. LINE OUT

The output signal can be connected to the signal input interface of another product through the XLR cable, and the output signal is the same as the input signal.

9. MAINS LINK

This product uses a POWERCON socket, which can be connected to the power input interface of another product, and the output is the same as the input voltage. Plug in the power cable and turn right to ON to turn the power on, turn left to OFF to turn it off. Please use the supporting power cable to connect.

10. MAINS INPUT

This product uses a POWERCON socket. The Applicable Voltage of is 220-240V~ 50/60Hz.

SPECIFICATION

	KOS Satellite Set	KOS Sub
Inputs	1*XLR input	1*XLR input
Output	1*XLR Link output	1*XLR link or Xover output
Power output	1000W RMS	600W RMS
Volume	Volume control	Volume control
Power input	220-240V~50Hz	220-240V~50Hz
Features	Class D + switching power design	Class D + switching power design
	Switching power design	LED power / signal / clip indicator
	LED power / signal / clip indicator	Xover design for satellite (90Hz or 120Hz)
	DSP setup	Phase switchable(0/180) Output Mode switchable(link/Xover)
Type	2 way active vented design	Acitve vented subwoofer
Frequency response	80-20k Hz	35-120 Hz
Impedance	4 ohm	8 ohm
Max output spl(1m)	128dB	122dB
Driver	2*6.5" woofer	12" subwoofer,2.5"VC
	2*1" CD	\
Directivity	90°(H) X 12°(V,Single enclosure)	\
Cabinet	ABS	Plywood with polyurea painted finish
Grill	1.0mm steel	1.2mm steel
Package MEAS / G.W.:	50.5*44*55.5cm/1SET/20KG	62.5*53*61cm/1pc/27KG

SUPPORT AND TROUBLESHOOTING

TROUBLESHOOTING

No sound from the loudspeaker	A. Make sure the power cable connection is plugged in tightly and turn right to the ON position.
	B. Make sure all cables and other connected devices are properly and securely connected.
	C. Make sure the DSP and LEVEL setting gears are in the position corresponding to the normal gears.
	D. Make sure the sound source device is functioning properly and can play the desired signal.
	E. Check if the level setting is too low, adjust the output level setting of the sound source device, or increase the output level with the LEVEL control.
Loudspeaker has hum or buzz	A. Make sure the power input is normal.
	B. Check the cables for bends, shorts, or breaks.
	C. Check whether the signal cable is in good contact.
	D. If the signal indicator light is solid red, it means the output volume is too loud, adjust the output level setting of the audio source device, or use the LEVEL controller to adjust the output level.
Different sound for each speaker	Set each speaker's DSP switch and LEVEL switch to the same position.
Sound breaks up suddenly	Please wait until the amplifier cools down. If the device does not reset automatically, turn the power off and on again.

