KamoGa

Karaoke | **M**ovie | **G**aming

KamoGa Starlet Sol

User Manual

& Installation Guide

KamoGa 7.1 SS Karaoke | Movie | Gaming System · with Starlet Sol in-ceiling speakers



Thank you for choosing KamoGa. This manual covers the safety information, controls, connections and technical specifications of your KamoGa Starlet Sol system (KamoGa 7.1 SS). Please read it carefully before use, observe the safety precautions and operate the product correctly. We recommend that you keep this manual for future reference.

Find out more setup information and detailed information at www.thunderstonektv.com

Thunderstone Technology (S) Pte Ltd · 61 Ubi Road 1 #01-15/16 S(408727)
+65 8101 1688 | +65 6702 6577

Contents

Safety Information	1
Remote Control	2
Front Panel Controls	3
Rear Panel Connections	4
Wireless Microphones	5
Connections	6–10
Speakers	
Subwoofer (bass module)	
Speaker placement	
HDMI audio devices	
Digital audio devices	
Analogue audio devices	
Warranty & Service	11
Basic Troubleshooting	12
Environmental Information	12
Technical Specifications	13

KamoGa
Karaoke | **M**ovie | **G**aming

Important Notes

Caution

- Do not listen at high volume for long periods. Prolonged loud sound can irritate your ears and, in severe cases, damage your hearing.
- Do not force the switches, controls or connecting cables, to avoid malfunction.
- Read the operating instructions carefully to avoid incorrect operation.
- Do not clean the unit with insecticide, alcohol, paint thinner or similar chemical solvents; they may make the surface peel or corrode. Wipe with a clean, dry cloth.
- If the unit will not be used for a long time, unplug the power cord and remove the batteries from the remote control.
- The unit has a dedicated cooling system. Do not block the air intake underneath or the exhaust on the rear panel.
- Do not expose the unit to dripping or splashing water, and do not place liquid-filled objects such as vases, cosmetics, medicines or insecticides on it. Spilled liquid may damage the unit, and flammable items may be heated and cause damage.
- Do not pull or bend the power cord or other components forcibly. Unplug the power cord before moving the unit.

Important

Please record the serial number of this unit here:

_____

Please keep this manual in a safe place for future reference.

Thunderstone Technology (S) Pte Ltd · 61 Ubi Road 1 #01-15/16 S(408727)
+65 8101 1688 | +65 6702 6577

Safety Information

Thank you for purchasing this KamoGa power amplifier system. Before using the main module, please read this manual carefully. Use it safely and correctly to avoid unnecessary loss and prevent problems before they occur.

Warning

- If the unit gives off smoke or behaves abnormally in any other way, unplug the power cord immediately and contact your local dealer for repair. Otherwise there is a risk of fire.
- If water gets inside the unit, switch off the power and contact your local dealer for repair. Otherwise there is a risk of fire or electric shock.
- If a foreign object falls inside the unit, switch off the power and contact your local dealer. Never dismantle or reassemble the unit yourself; this may damage components or cause electric shock.

Warning

- Do not place heavy objects on top of the unit or on the power cord.
- To keep the unit well ventilated, do not cover the vents with cloth or other objects, and do not place it on long-pile carpet or bedding; overheating can cause electric shock or fire. Do not place it tight against a wall or furniture, or the unit will overheat and its life will be shortened.
- Place the unit out of the reach of children, to avoid trapped fingers.

Warning

- The power plug is the disconnecting device and must remain readily accessible.
- Do not damage the power cord. If the core is exposed or broken, switch off the power immediately, do not touch it, and have the cord replaced by your local dealer.
- Use the unit in a well-ventilated, dry place; never in a humid location. The unit is rated for AC 220–240 V, 50/60 Hz (see the rear-panel label); using any other supply voltage is dangerous.
- Unplug the power cord during thunderstorms or lightning.
- Never touch the plug with wet hands; this can cause a serious electric shock.

Warning

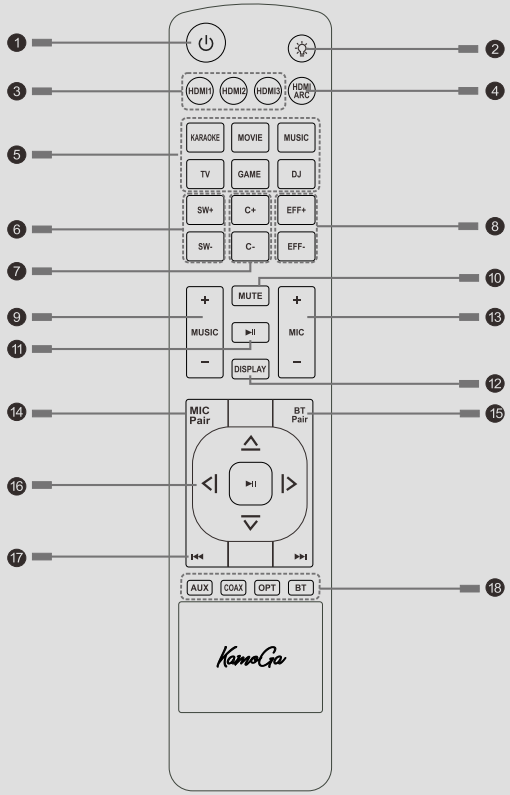
- To prevent battery leakage, overheating or rupture, never throw batteries into a fire, and use only the correct battery type.
- If the unit is dropped or damaged, switch off the power, disconnect it from other equipment and contact your dealer for repair.
- Do not modify or tamper with the unit; doing so voids after-sales service.
- Place the unit on a stable surface away from sources of vibration (such as transformers or motors), to avoid excessive vibration.

Thunderstone Technology (S) Pte Ltd · 61 Ubi Road 1 #01-15/16 S(408727)
+65 8101 1688 | +65 6702 6577

Remote Control

KamoGa
Karaoke | Movie | Gaming

Remote Control Layout



1. **POWER**
   Power on / standby
2. **Backlight**
   Remote control backlight on / off
3. **HDMI 1 2 3**
   Switch the source to HDMI 1, 2 or 3
4. **HDMI ARC**
   Switch to the HDMI ARC channel (see Rear Panel, item 3)
5. **Sound modes**
   KARAOKE / MOVIE / MUSIC / TV / GAME / DJ
6. **SW + / –**
   Subwoofer volume
7. **C + / –**
   Centre volume
8. **EFF + / –**
   Microphone effect volume
9. **MUSIC + / –**
   Music volume
10. **MUTE / 12 DISPLAY**
    Short press: change the display colour theme. Long press: mute / unmute
11. **Play/Pause**
    Play / pause (Bluetooth mode)
13. **MIC + / –**
    Microphone volume
14. **MIC Pair**
    Microphone pairing
15. **BT Pair**
    Bluetooth pairing: disconnects the current device and enters pairing mode
16. **Direction keys**
    Up / down: music volume. Left / right: microphone volume
17. **Prev / Next**
    Previous / next track (Bluetooth mode)
18. **Source keys**
    Switch the source to AUX / COAX / OPT / BT

Bluetooth pairing

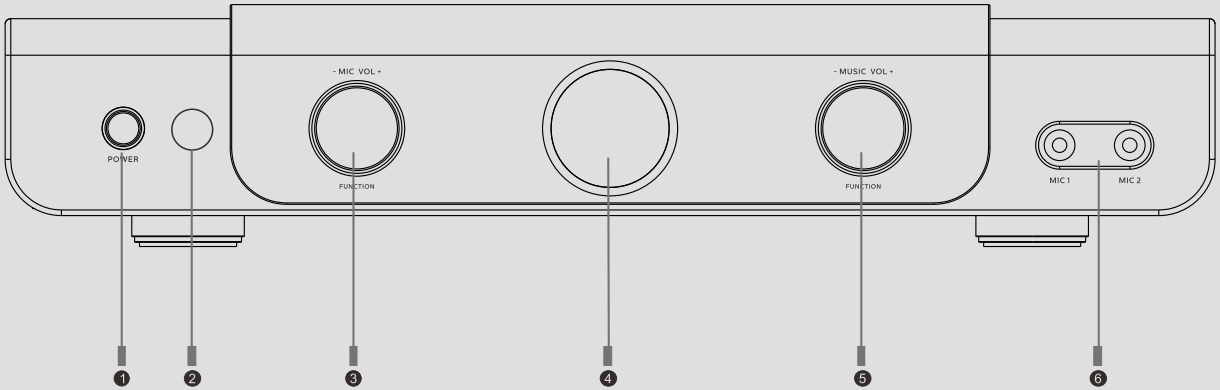
With the main module switched on, press BT. The unit enters pairing mode; connect your phone or other Bluetooth device to complete pairing.

Thunderstone Technology (S) Pte Ltd · 61 Ubi Road 1 #01-15/16 S(408727)
+65 8101 1688 | +65 6702 6577

Function Description

KamoGa
Karaoke | Movie | Gaming

Front Panel Controls



1 Power switch

Press POWER to switch the unit on. Once on, press POWER on the remote control to put it into standby. Press POWER on the front panel again to switch the unit off.

2 Remote control sensor

3 Microphone volume knob

Turn to adjust the microphone volume. Press the knob, then turn it to choose INPUT (source), MODE (sound mode), MIC-Pair (microphone pairing) or BT-Pair (Bluetooth pairing).

With INPUT selected, press to open the menu: 1. HDMI 1 / 2. HDMI 2 / 3. HDMI 3 / 4. BT / 5. OPTI / 6. COAX / 7. AUX / 8. ARC.

With MODE selected, press to open the menu: 1. KARAOKE / 2. MOVIE / 3. MUSIC / 4. TV / 5. GAME / 6. DJ.

4 Display

5 Music volume knob

Turn to adjust the music volume. Press the knob, then turn it to adjust the centre, subwoofer and microphone effect levels.

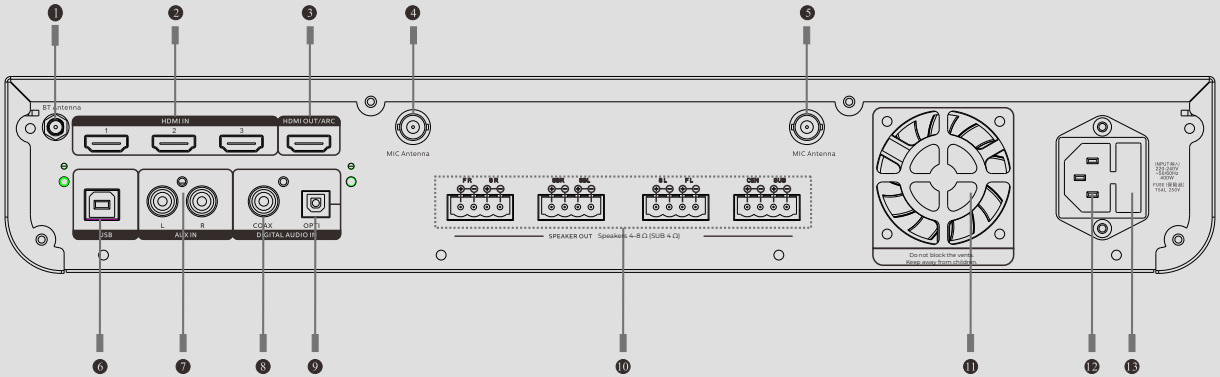
6 Microphone inputs (MIC 1 / MIC 2)

Thunderstone Technology (S) Pte Ltd · 61 Ubi Road 1 #01-15/16 S(408727)
+65 8101 1688 | +65 6702 6577

Function Description

KamoGa
Karaoke | Movie | Gaming

Rear Panel Connections



1. BT Antenna – Bluetooth antenna
2. HDMI IN 1 2 3 – HDMI inputs
3. HDMI OUT / ARC – HDMI output and ARC port

   Connect to the HDMI ARC port of your TV. This unit supports the Audio Return Channel (ARC). Note: enable HDMI-CEC on the TV; see the TV's user manual for details.
4. MIC Antenna – microphone antenna
5. MIC Antenna – microphone antenna
6. USB – service port
7. AUX IN – analogue audio input
8. COAX – coaxial digital input
9. OPTI – optical digital input
10. Speaker output terminals

FR	Front right	SL	Surround left
SR	Surround right	FL	Front left
SBR	Surround back right	CEN	Centre
SBL	Surround back left	SUB	Subwoofer

11. Cooling fan
12. Power input (AC inlet)
13. Fuse

Note

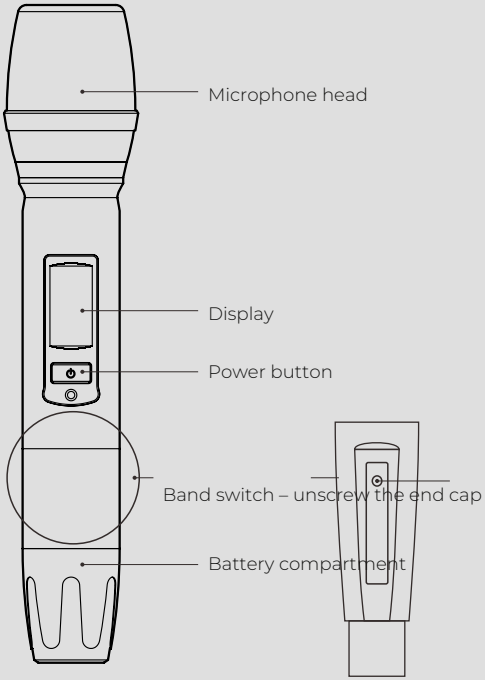
- Do not block the cooling-fan exhaust or the air intakes on both sides of the chassis.
- Install out of the reach of children, to avoid trapped fingers.

Thunderstone Technology (S) Pte Ltd · 61 Ubi Road 1 #01-15/16 S(408727)
+65 8101 1688 | +65 6702 6577

Connections

KamoGa
Karaoke | Movie | Gaming

Wireless Microphones



Notes

1. The two wireless microphones supplied are paired with the main module at the factory. Simply switch them on and sing.
2. To use a different microphone channel, pair the microphone with the main module as follows:

   A. With the main module on, press MIC Pair on the remote control. Then, with the microphone switched off, press and hold the microphone power button until the display flashes. Release it, then short-press the power button to change the channel (L = low-band microphone, channels 00–99; H = high-band microphone, channels 100–199).

   B. Once the channel is selected, the microphone pairs with the main module automatically. When pairing succeeds, the main module display shows the antenna icons for microphones 1 and 2.
3. To switch a microphone between low and high band: with the microphone on, press and hold the band switch (on the back of the battery compartment, under the end cap). This changes an L (low-band) microphone to H (high-band), and vice versa.

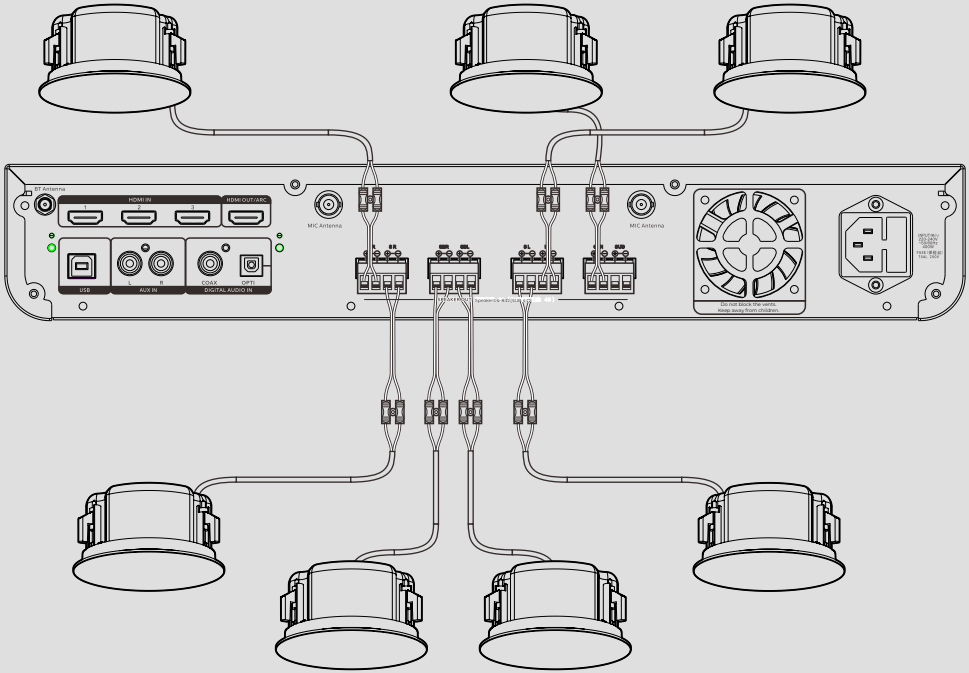
Thunderstone Technology (S) Pte Ltd · 61 Ubi Road 1 #01-15/16 S(408727)
+65 8101 1688 | +65 6702 6577

Connections

KamoGa
Karaoke | Movie | Gaming

Speaker Connection

Use speaker cable of a suitable gauge to connect the SPEAKER OUT terminals of the main module to the input terminals of each speaker. Loose connections will result in no sound.

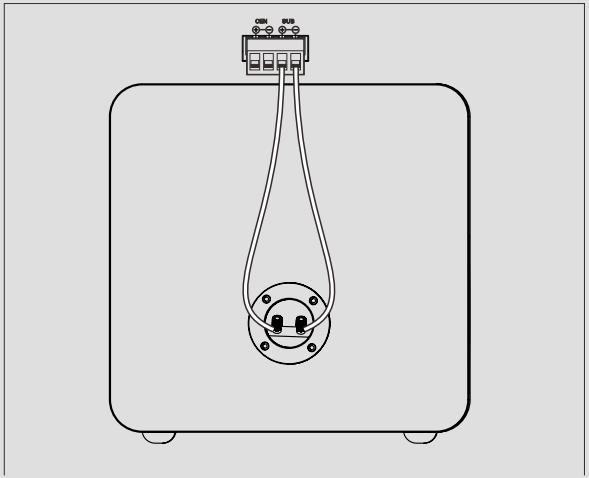


Thunderstone Technology (S) Pte Ltd · 61 Ubi Road 1 #01-15/16 S(408727)
+65 8101 1688 | +65 6702 6577

Connections

KamoGa
Karaoke | Movie | Gaming

Subwoofer (Bass Module) Connection



Make sure the positive (+) wire is connected to the positive (+) terminal and the negative (−) wire to the negative (−) terminal. If the wires are reversed, the sound will be unnatural and lack bass.

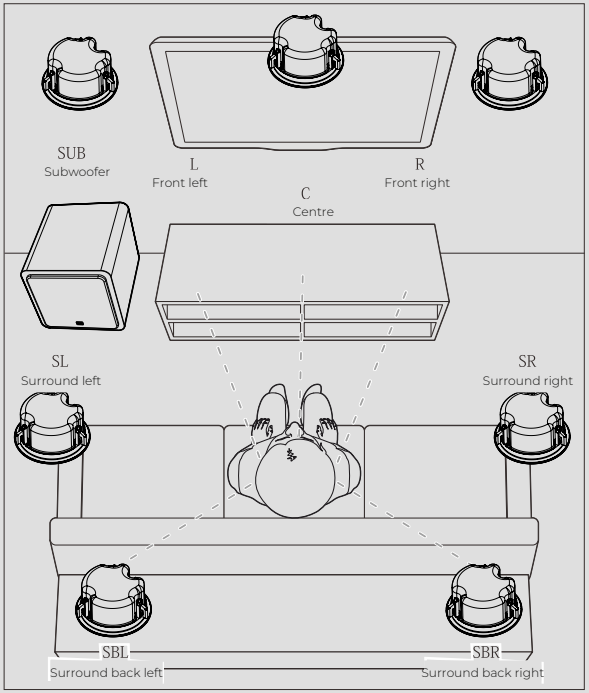
Red: positive (+) Black: negative (−)

1. Loosen the knob.
2. Insert the bare wire (strip about 5 mm of insulation from the speaker cable).
3. Tighten the knob to secure the wire.

   Note: do not let the bare speaker wires touch each other or any metal part of the unit; this may damage the unit or the speakers.

Speaker Placement

Speaker placement plays a key role in creating surround sound. For the best effect, aim all speakers towards the seating position.

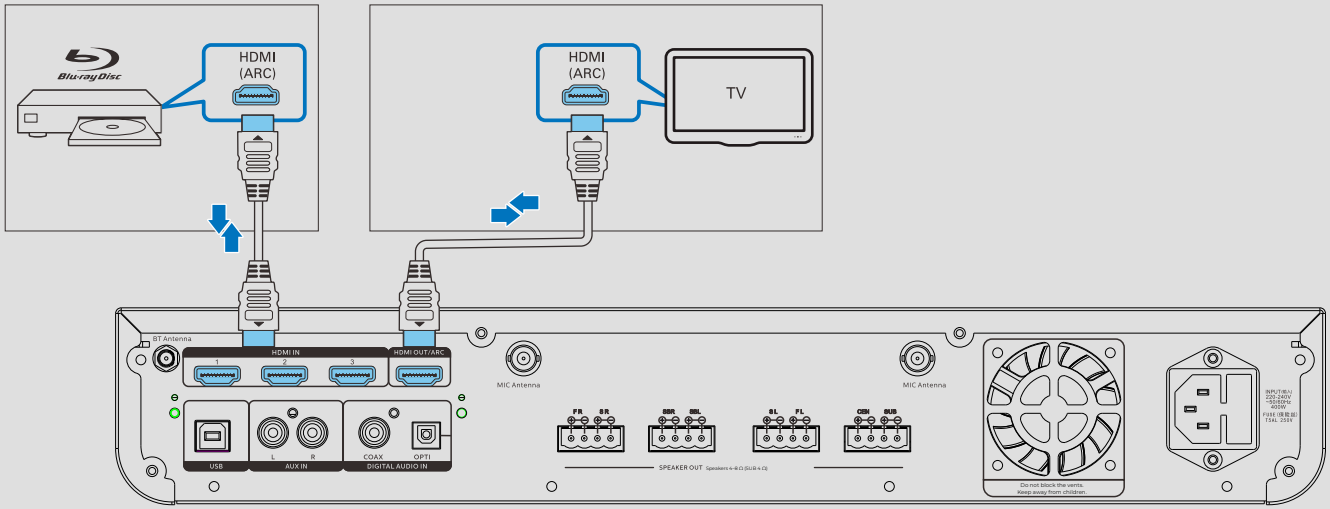


Connections

KamoGa
Karaoke | Movie | Gaming

HDMI Audio Devices

1. Use an HDMI cable to connect HDMI IN on the main module to the HDMI OUT port of your Blu-ray player or other device.
2. Use an HDMI cable to connect HDMI OUT / ARC on the main module to the HDMI IN (ARC) port of your TV or other device.
3. Press HDMI 1, 2 or 3 on the remote control to select HDMI channel 1, 2 or 3.



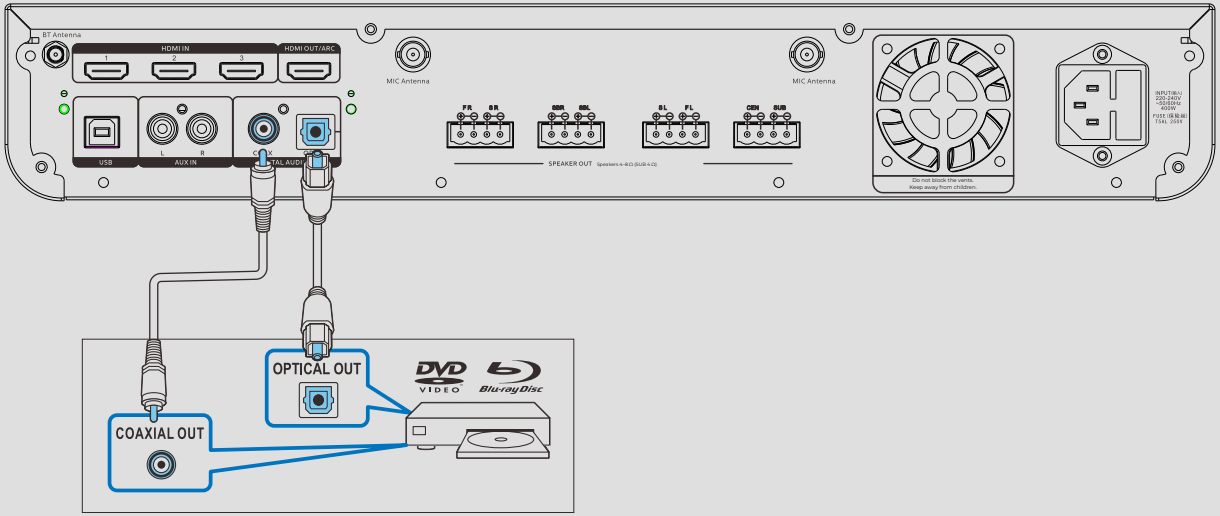
Thunderstone Technology (S) Pte Ltd · 61 Ubi Road 1 #01-15/16 S(408727)
+65 8101 1688 | +65 6702 6577

Connections

KamoGa
Karaoke | Movie | Gaming

Digital Audio Devices

1. Use a digital cable to connect the COAX or OPTI input on the main module to the COAX OUT or OPTICAL OUT port of your TV or other device.
2. Press COAX on the remote control to select COAX mode, or OPT to select OPTI mode.



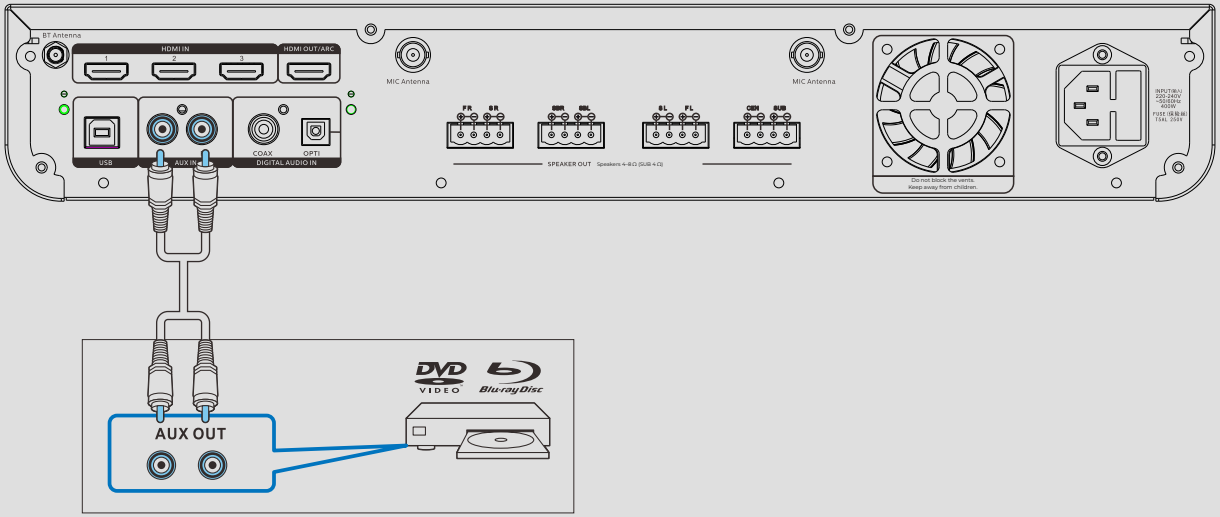
Thunderstone Technology (S) Pte Ltd · 61 Ubi Road 1 #01-15/16 S(408727)
+65 8101 1688 | +65 6702 6577

Connections

KamoGa
Karaoke | Movie | Gaming

Analogue Audio Devices

1. Use an analogue cable to connect AUX IN on the main module to the AUX OUT port (red and white RCA) or 3.5 mm headphone jack of your TV or other device.
2. Press AUX on the remote control to select AUX mode.



Thunderstone Technology (S) Pte Ltd · 61 Ubi Road 1 #01-15/16 S(408727)
+65 8101 1688 | +65 6702 6577

Warranty & Service

KamoGa 12-Month Warranty

Your KamoGa Starlet Sol system is covered by a 12-month warranty from the date of purchase, provided by Thunderstone Technology (S) Pte Ltd, Singapore.

- Within 12 months of purchase, if a performance fault occurs and is confirmed by our service centre, the product will be repaired free of charge.
- Please keep your proof of purchase (delivery note and invoice) and the warranty card stamped by your dealer; they are required for warranty service.
- The warranty card must not be altered; otherwise it will be treated as invalid.
- Please keep the original packaging for at least 30 days to protect the product if it has to be returned for service.

Service & Support

For warranty claims, technical support or installation advice, please contact your KamoGa dealer or:

Thunderstone Technology (S) Pte Ltd

61 Ubi Road 1, Oxley Bizhub 1, #01-15/16, Singapore 408727

+65 6702 6577 · +65 8101 1688 · sales@thunderstonektv.com

www.thunderstonektv.com

Not Covered by Warranty

- Products outside the 12-month warranty period.
- Faults or damage caused by unauthorised repair, misuse, collision, negligence, abuse, liquid ingress, accident, alteration, disassembly, use of non-original accessories or installation of unauthorised software.
- Products whose labels, serial numbers or anti-counterfeiting marks have been torn off or altered.
- Damage caused by use, maintenance or storage that does not follow this manual.
- Damage caused by force majeure, or where the model on the warranty card does not match the product or the card has been altered.
- Faults or damage caused by viruses, hacking or other malicious attacks.

Basic Troubleshooting

The main module is simple to operate, but faults can occasionally occur through incorrect use. If you encounter a problem, check the table below first. If it persists, contact your KamoGa dealer or an authorised service centre. Never open the unit yourself – doing so voids the warranty.

Problem	Check that...
No sound when the unit is switched on	1. The power cord is connected 2. The correct input is selected 3. The volume is not at minimum 4. The speakers are connected correctly 5. The unit is not muted
No sound from one or more channels	1. The speakers are connected correctly 2. The audio and speaker cables are not damaged 3. All terminals are making good contact
Sound cuts in and out during normal playback	1. The audio and speaker cables are not damaged

Environmental Information

KamoGa
Karaoke | Movie | Gaming

This product must not be disposed of as household waste. Please take it to an appropriate collection point for the recycling of electrical and electronic equipment.

Proper disposal and recycling help protect the natural environment and human health. For more information, contact your local authority or your KamoGa dealer.

Remove the batteries from the remote control and wireless microphones before disposal, and recycle them separately.

Thunderstone Technology (S) Pte Ltd · 61 Ubi Road 1 #01-15/16 S(408727)
+65 8101 1688 | +65 6702 6577

Technical Specifications

KamoGa
Karaoke | Movie | Gaming

Starlet Sol in-ceiling speakers

Rated / peak power	20 W / 40 W
Impedance	4 Ω
Sensitivity	88 dB ± 2 dB
Frequency response	300 Hz – 20 kHz
Dimensions / cut-out	Ø104 × 74 mm / Ø87 mm

Subwoofer (bass module)

Rated output	100 W
Impedance	4 Ω
Sensitivity	84 ± 2 dB
Frequency range	37 Hz – 500 Hz
Dimensions (W × H × D)	330 × 340 × 367 mm

Digital audio

Sampling frequency	32 / 44.1 / 48 / 96 kHz
Digital input level	Coaxial, 75 Ω: 0.5 Vp-p

Amplifier

Rated output	Single channel driven, 1 kHz, THD 1%; 7.1-channel mode, same conditions
Front	40 W + 40 W (8 Ω)
Centre	40 W (8 Ω)
Surround	40 W × 4 (8 Ω)
Subwoofer	140 W (4 Ω, THD 10%)
Speaker impedance	4–8 Ω (subwoofer 4 Ω)
Input sensitivity	≤ 400 mV
Overload EMF	≥ 2 V
Harmonic distortion	≤ −30 dB (rated conditions, output −26 dB, 20 Hz – 20 kHz)
Signal-to-noise ratio	≥ 85 dB (A-weighted)
Channel separation	≥ 50 dB (1 kHz, 7.1 ch)

Power

Rated voltage	AC 220–240 V, 50/60 Hz
Power consumption	≤ 400 W

Main module

Dimensions (W × H × D)	430 × 86 × 340 mm
Weight	4.5 kg
Accessories	User manual, remote control, HDMI cable, optical cable, RCA cable, 2 wireless microphones, power cord, 1 set of speaker terminal plugs

Thunderstone Technology reserves the right to change the design and specifications without notice.

Thunderstone Technology (S) Pte Ltd · 61 Ubi Road 1 #01-15/16 S(408727)
+65 8101 1688 | +65 6702 6577

KamoGa

KamoGa Starlet Sol · User Manual & Installation Guide

Systems distributed by
Thunderstone Technology (S) Pte Ltd
61 Ubi Road 1, Oxley Bizhub 1, #01-15/16
Singapore 408727

+65 6702 6577 · +65 8101 1688
sales@thunderstonektv.com

www.thunderstonektv.com