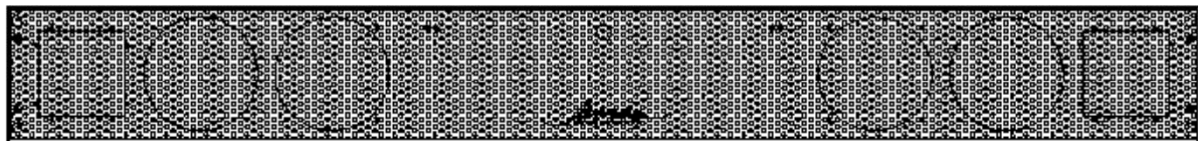



James
LOUDSPEAKER



SPL5QLR-P
OWNER'S MANUAL

Danger of electric shock!

 The loudspeaker carries mains voltage and voltage higher than 35v AC or DC internal. There is no special protection against the intrusion of liquids or objects into the system. Therefore, A risk of electric shock.

- Never touch the speaker with wet hands.
- The speaker must be in dry location only.
- The speaker must be shield and protected by liquids, small metal objects and foreign substance.
- When speaker is relocate from cold environment to warm environment, there is potential condensation may occurred, Let speaker have sufficient time to dry before turning the main power on.
- Unplug the main AC power cable immediately if there's foreign objects / liquids into the amplifier section.

Danger of injury or damage!

 Faulty mains supply systems or excessive mains voltage can cause electric shocks.

- All power supply or antenna systems connected to the speaker must comply with all applicable laws and regulations and be professionally installed by an approved installation company.
- Use only the appropriate power cord.

 Caution!

- High fluctuation AC voltage spike may damage amplifier.
- Lightning Bolt may cause excessively high voltage in the power grid and this'll destroy amplifier.

Remote control and battery!

This product comes with a remote control and batteries. the following must be observed.



The range of the remote control will be decrease significantly as batteries discharged.

- Replace batteries with correct size and the DC voltage.
- When replacing batteries, the polarity of the battery must be inserted correctly - otherwise, remote will not funtion.



Caution!

Improper handling can lead to damage.

- Do not drop the remote control.
- Do not expose the remote control and batteries to water or other liquids.
- Do not operate or store the remote control and batteries in location with high humidity or high / low temperature area.



Danger!

Leaking or exploding batteries can pose a health hazard and may cause damage to the goods.

- Remove batteries if device is not operating long period.
- leaking batteries must be replaced immediately.
- Do not touch leaking battery.
- Should your skin, eye or mouth come into contact with the leaking batteries, clean the affected area immediatly.
- Do not ingest batteries, chemical may harm and burn internal body parts.
- Keep new and old batteries away from chirdren.

Connection!

- 1 POWER ON / OFF: Do not turn on switch till proper connection is completed.
- 2 UNIVERSAL AC 100v - 240v: Must use supplied 90 Degree elbow AC cable.
- 3 AUX / ANALOG IN: Source device with analog line output such as CD, DVD, Network Player, Preamplifier, smartphone, tablet and the PCs/ laptops via 3.5mm headphone jack
- 4 COAX / DIGITAL IN: Source device with digital output such as CD, DVD, Network Player, Television, Preamplifier, Satellite / cable box receiver and the device with PCM(24/192Khz) out.
- 5 OPTICAL / TOSSLINK IN: Source device with digital output such as CD, DVD, Network Player, Television, Preamplifier, Satellite / cable box receiver and the device with PCM(24/192Khz) out.
- 6 HDMI-ARC IN: Compatible Television with Audio Return Channel out via HDMI-ARC, HDMI cable requires *HDMI cable not included.
- 7 SUBWOOFER PRE-OUT: Low level signal output for external Subwoofer via RCA cable.
*Optional 2.4Ghz Wireless Transmitter / Receiver is highly recommended.
- 8 BLUETOOTH: Source device with Bluetooth Link such as Network Player, Computers Television, Preamplifier, Television, Tablet and Smart phone.
- 9 REMOTE CONTROL IR RECEIVER: The IR receiver Sensitivity may vary depends on sitting position.

Status LED indicator

The infrared receiver and the status LED are located on the front behind the mesh grill.

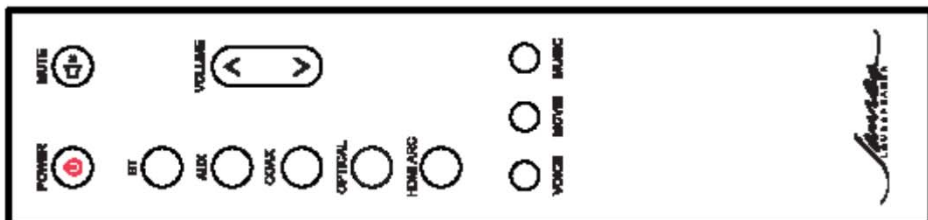
When in speaker is on stand by mode, the LED will be off.

During operation, the LED color will be change according to input selection.

The status LED confirms triggering of a command by the remote control by flashing briefly.

INPUT SELECTION	LED COLOR
• AUX / ANALOG IN	Green
• BLUETOOTH	Blue
• COAX / DIGITAL IN	White
• HDMI-ARC	Purple
• OPTICAL / TOSSLINK	Red

Remote Control



*The selection of VOICE / MOVIE and the MUSIC activates Digital Signal Processor for virtual sound expansion.

Operation and Functions

Bluetooth: Pairing

Trigger Bluetooth button, the Blue LED light will blink.

- There's no connection if Blue LED is flashing slow rate
- The Bluetooth is in pairing mode if Blue LED is Flashing rapidly.
- The Bluetooth is in pair if Blue LED is on steady state.

Pairing mode can be activated by pressing BT button for 3 second on the remote control.

The speaker emits a confirmation tone, disconnects the existing Bluetooth connection and visible to other devices.

The pairing must excuted within one minute otherwise, units will be default to last device.

Bluetooth: Volume Control

Virtually all devices that output an ausdio signal via Bluetooth ahve its own volume control.

For the best possible quallity is recommended to set the volume of the source device to maximum and adjust the-
plyback volume with the remote control with the speaker system remote control.

Auto Power Off

The system has an automatic power off funtion that cannot be deactivated.

When input is select with Blue tooth or Analog input, the system will be switched to STAND BY mode after 20-
minutes without audio signals presence.

With the digital inputs such as COAXIAL, OPTICAL TOSS LINK, and HDMI-ARC the auto-off circuit reacts directly
to the absnce of a digital data stream and thus allows a faster switch-off. The play back device must deactivate the
data stream accordingly.

Operation and Functions

Auto Power On and Automatic source selection

The electronics of the system has an automatic Power-On function that automatically wakes it up from Stand-By mode as soon as a sound signal or digital data stream is present.

This function is only active if the system has been put into Stand-By mode by the automatic switch-off Function.

The signal must be present at the input that was selected during the automatic switch-off process.

*This function is not available for Bluetooth devices.

If stand-by mode has been set manually by pressing the button Power On/Off on the remote control, the automatic switch-on function is deactivated.

HDMI-ARC and CEC

To enable sound transmission from the TV to the system both the CEC(Consumer Electronic Control and the ARC(Audio Return Channel) functionality must be activated on the TVset. This is the default condition and the TV should automatically detect the external speaker.

Refer to TV's owners manual for detail instruction.

When all functions are in active, both the TV remote and the speaker system remote can adjust the volume.

PCM Sound Format

The speaker system uses signals in the "PCM"(Pulse Code Modulator) format at the digital inputs.

It may therefore be necessary to adjust the setting of players such as TV sets or Game consoles accordingly.

To do this, select "PCM" as the audio output format in the playback menu.

Please refer to the owners manual of your player.

DSP Technology

VOICE, MOVIE and MUSIC

A sophisticated DSP(Digital Signal Processor) algorithm in the speaker system calculates additional room information which when added to the source signal, leads to virtual expansion of the stereo sound stage.

If the Music function is selected on the remote control, this effect is rather soft. With Movie, the ratio of processed information to the original signal is increased; this mode is recommended especially if a very large soundstage is desired and the locating precision is less important.

Other Applications

Option for External Subwoofer

If you desire for deeper bass extension, the system has SUBOUT(Pre-Out).

This output provides a Full-Range summed Mono signal. The relative volume of the subwoofer, Cross over Frequency and Phase setting must be adjusted at the Active Subwoofer in itself.

If you connect a Subwoofer to this output, 80Hz Low-Pass filter is automatically applied to the speaker system.

You can also integrate a 2.4GHz Wireless Transmitter / Receiver for easy addition of powerful Bass.

Installation of a Subwoofer can be very challenging but, with a Wireless device you can position an active subwoofer anywhere in the room near an AC source without a hassle of running RCA cable.

Care and Cleaning tips



Caution!

Improper handling of the speaker system may result in damage.

- Always unplug the speaker system before cleaning it.
- Before recommissioning, make sure all connections are correct that there are no short circuits and make sure Speaker System is completely dry.
- Never use strong cleaning solution, solvents such as petrol base, spirit or similar harmful agent.
- Do not press hard and poke at the Speaker Cone or Tweeter Diaphragm, the material is very thin and there're prone to damage easily.
- Micro wash cloth or dust brush are recommended.

FCC Warning



Caution!

Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

Radiation Exposure Statement

The device has been evaluated to meet general RF exposure requirement.

The distance between user and products should be no less than 20cm.

Technical Data

General Description:	Built in 2Ch. Active Stereo Amplifier with DSP 2 - Way Bass Reflex System
Driver Configuration:	2 X 0.75" (20mm) Aluminum Dome Quad Tweeters 2 X 5 1/4" (139.7mm) Aluminum Cone with Neodymium Magnet
Enclosure:	Extruded Aluminum with 316L Stainless Microperf Grille Custom Length / Custom Color per TV Brand and Size
System Frequency Response:	50Hz ~ 22Khz +/- 2dB

Amplifier Section

Bluetooth Module:	JS-BTMC6R24(CSR64215)
HDMI:	HDMI-ARC
Amplifier Chipset:	TAS5352 x 2
MCU:	R5F100GEAFB
DSP:	D2-92683-QR
SPDIF:	Receiver only for Auto-Wakeup CS8422
ADC:	PCM1862
DAC for Subwoofer:	PCM5100APWR

Technical Data

Audio Performance

TOTAL HARMONIC DISTORTION:	<1% @ Rated Power
Rated power:	50W x 4 / 100W x 2 / 200W x 2 Peak
Channel Separation:	>70dB
Signal to Noise:	>85dB(A-Weighted)
Amplifier Poer Stage Configuration:	BTL
Analog Input Level:	Max 3Vrms
Frequency Response:	10~20KHz +/-1dB
Analog Input Level detection:	Yes(3mV)
Analog Input Sensitivity:	350mV(Rated Power)
Input Impedance:	>20K Ohms

Inputs & Outputs

Analog In:	RCA x 2 Red / White
Coaxial In:	RCA x 1 Orange
Optical In:	TossLink x 1
HDMI-ARC In:	90 Degree Angle HDMI Adaptor
Sub Out:	RCA x 1 Black

Bluetooth

Bluetooth Version:	4.0
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Power Supply

PSU:	30V DC x 5Arms
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