



smartstream Sound System

Installation & User Manual



Contents

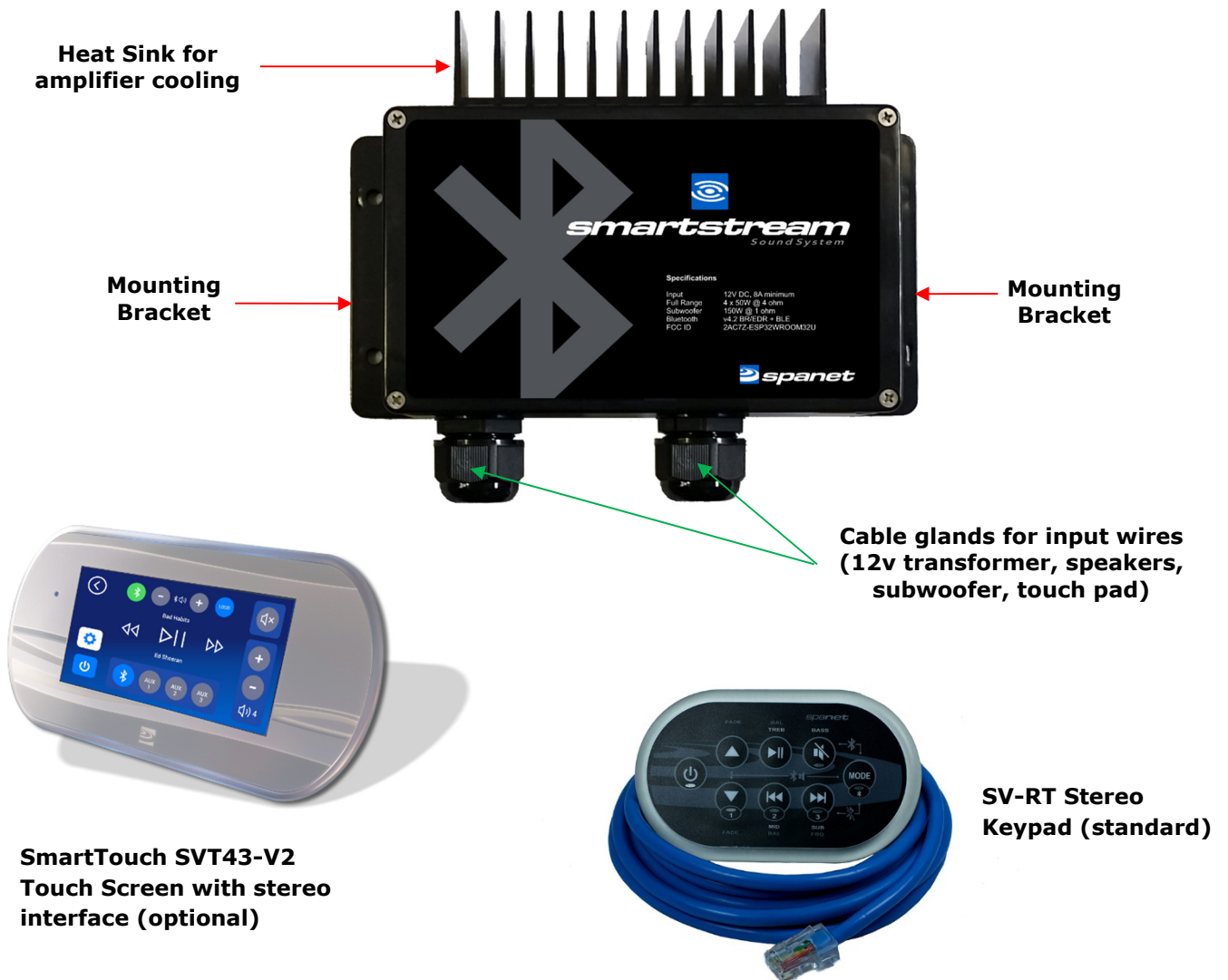
Overview	3
SmartSTREAM Wiring Diagram	4
Notes for Mounting SmartSTREAM Module	5
Keypad Connections	5
SV-RT Stereo Keypad.....	5
SmartTouch SVT43-V2 Keypad	6
Enable Stereo Support on SmartTouch SVT43-V2 Keypad.....	6
SmartSTREAM Operation with SmartTouch SVT43-V2 Keypad.....	8
Power On/Off	8
Stereo Interface Button Assignments	9
Equalizer Settings page.....	9
Bluetooth	10
Bluetooth Connection Status Icon	10
Pairing	10
SmartSTREAM Operation with SV-RT Keypad	11
Power On/Off.....	11
Touchpad Key Assignments.....	11
Key Press Operations	11
Single Key Functions	11
Hold & Tap Key Functions	12
Bluetooth Indicator LED.....	13
Reconnect a paired device.....	13
Volume Control.....	13
Loudness.....	14
Audio Input Sources	14
EEPROM (non-volatile) Memory	14
Reset to Factory Defaults on SV-RT Keypad.....	14
Legal Information.....	15

Overview

The SpaNET SmartSTREAM module is a purpose built, high-definition sound system for spa pools with *Bluetooth*® connectivity. The module has been designed specifically for spa pool applications and built to withstand the high ambient temperatures and humid environment the unit may be exposed to under a spa cabinet.

The SmartSTREAM contains an advanced high efficiency MOSFET four channel 50W amplifier module. This is used to drive four (4) x full range speakers or transducer speakers. In addition, the unit also contains a mono 150W channel amplifier used to drive a subwoofer (if fitted). The Bluetooth module receives audio stream direct from a smart device (phone/tablet) and three (3) x auxiliary audio input sources are provided to enable audio connection to an external device such as a TV, DVD or iPod Dock. At the heart of the SmartSTREAM is a powerful audio processor chip responsible for audio source switching and allowing complete control over volume, fader, balance, treble, midrange, bass, subwoofer levels and frequency adjustments.

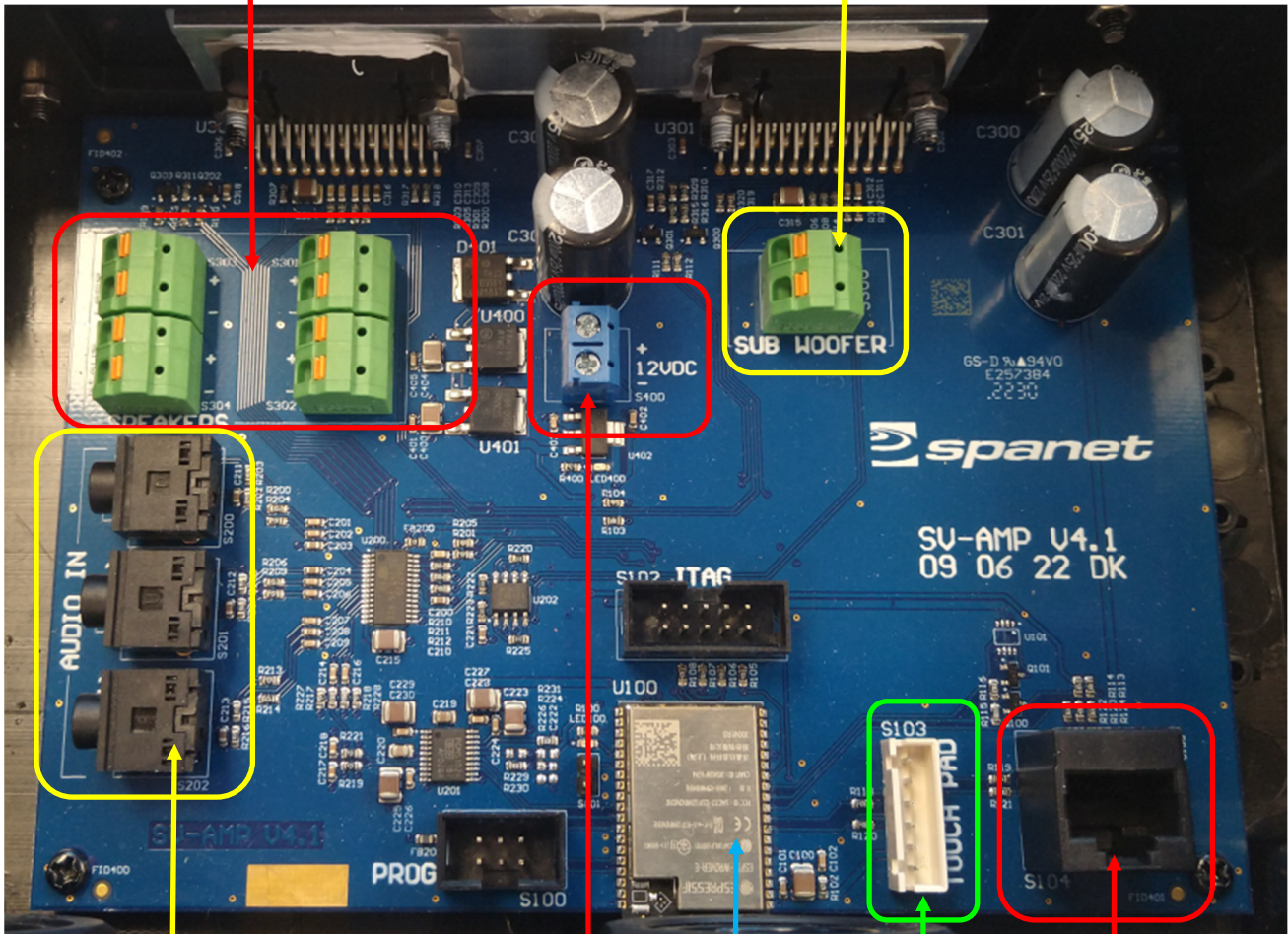
The SmartSTREAM module operates as a standalone stereo system for a spa pool. It requires the connection of a keypad to operate. There are two keypad choices: the SV-RT Stereo only keypad, or the stereo interface on the SmartTouch SVT43-V2 touch screen touch pad (also used to operate an SV Series spa control).



SmartSTREAM Wiring Diagram

Speaker Terminals: 4 x 50W

Subwoofer Terminal: 150W
(connection of subwoofer optional)



Auxiliary Inputs:
3 x 3.5mm Audio

Input Power
Terminal: 12V DC

Transformer
should be capable
of 100W (8A)

SV-RT Stereo
Keypad Socket

SmartTouch SVT43-V2
Stereo Interface Cable
Connection

Bluetooth Module

Notes for Mounting SmartSTREAM Module

The SmartSTREAM module should be installed in a water protected enclosure (i.e. underneath spa cabinet).

The Bluetooth signal is strongest in a 90-degree arc stemming from the SmartSTREAM module. We recommend installing the module as high as possible under the spa cabinet and on the same side as the topside keypad for the SV spa control so that it is closest to where the spa owner will operate their spa and therefore provide the strongest Bluetooth signal strength.

Please note that the silver foil often used on spa cabinet doors and sides for insulation may shield and diminish the Bluetooth signal. If weak Bluetooth connectivity is experienced, please reduce the insulating foil directly in front of the SmartStream module to improve signal.

Advise resellers/users where SmartSTREAM module is mounted

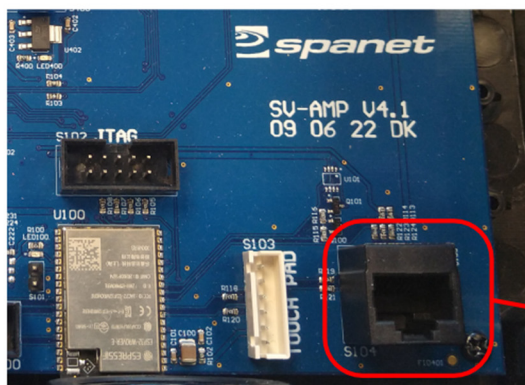
We also recommend using a small sticker on the topside of the spa to identify where the SmartSTREAM module is installed to alert spa resellers and end users where the Bluetooth signal will be at its strongest.

Keypad Connections

The SmartStream has two different keypad connection points, one for each style of keypad. Usually only one type of keypad is installed, however the SmartStream can support the use of both the SV-RT Stereo Keypad and the SmartTouch SVT43-V2 Touch Screen if desired.

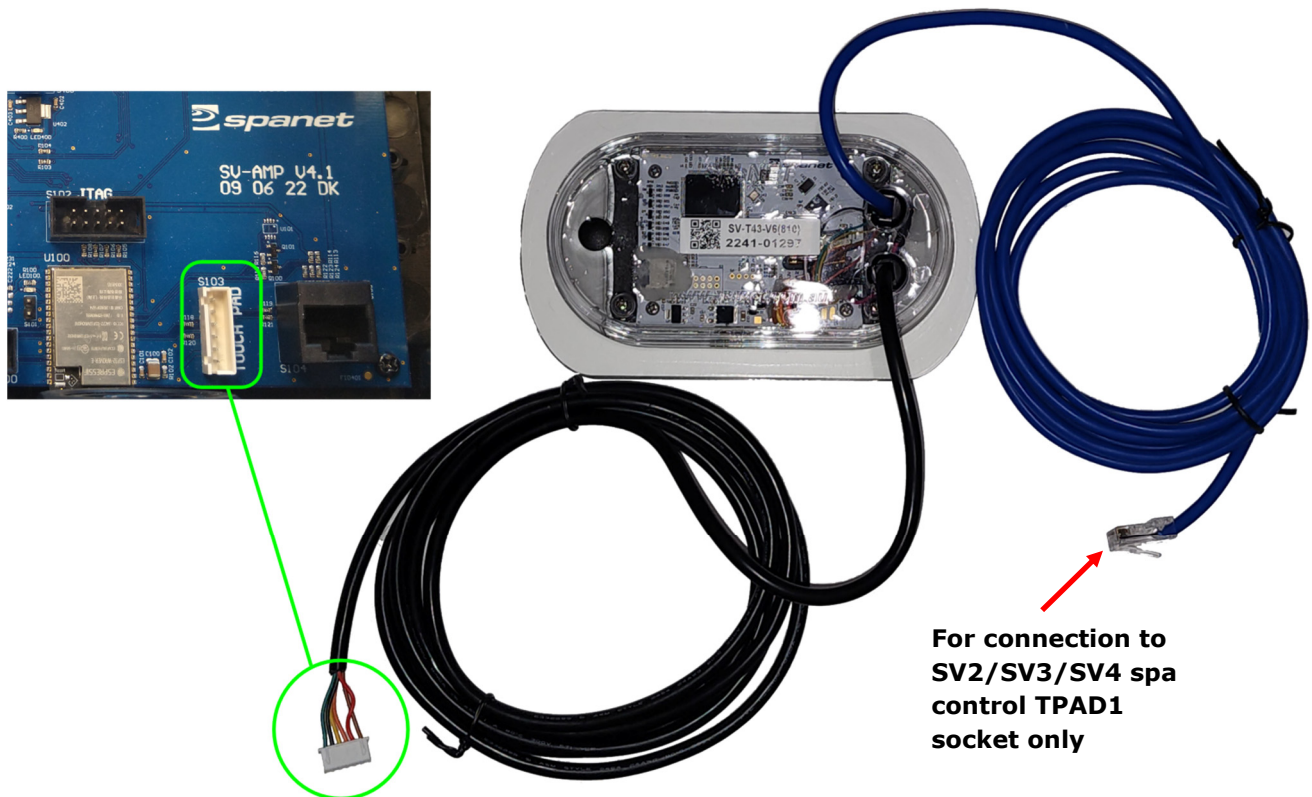
SV-RT Stereo Keypad

The SV-RT keypad connects to the SmartStream module using the RJ45 touch pad socket



SmartTouch SVT43-V2 Keypad

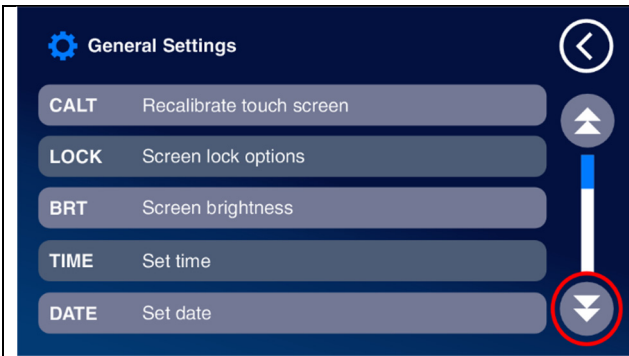
The SVT43-V2 keypad connects to the SmartStream module using the black stereo interface cable ONLY. This black cable connects to the 6-pin header as pictured below.



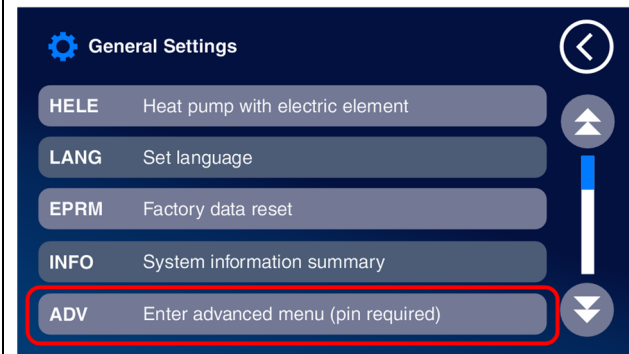
Enable Stereo Support on SmartTouch SVT43-V2 Keypad

In addition to the cable connection to the SmartStream module, a software setting must be enabled from within the SmartTouch Advanced Menu for the stereo interface to work.

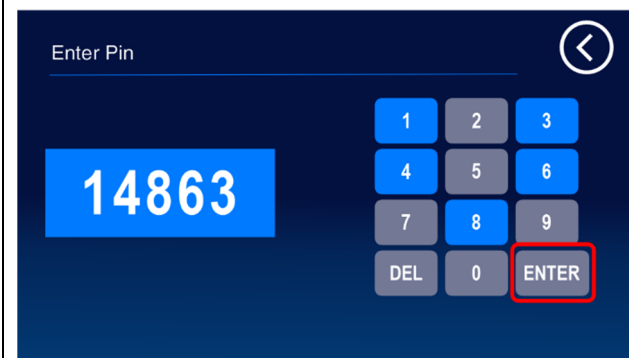
<p>The screenshot shows the SmartTouch Advanced Menu interface. The temperature is 38.2°C. The time is 16:54 Mon, 30/01/2023. The heating status is "Heating". The Cog icon (gear) is highlighted with a red box.</p>	<p>Step 1: Press on Cog icon to enter General Settings menu</p>
---	--



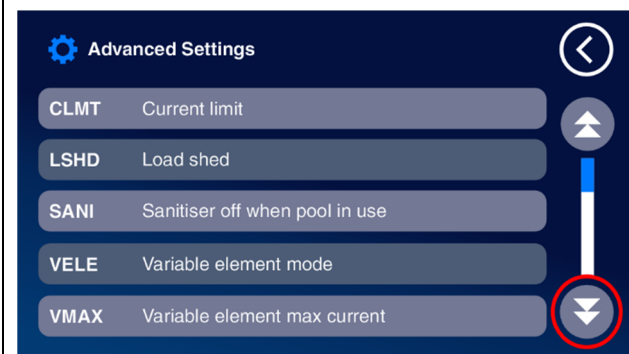
Step 2:
Scroll to bottom of General Settings Menu



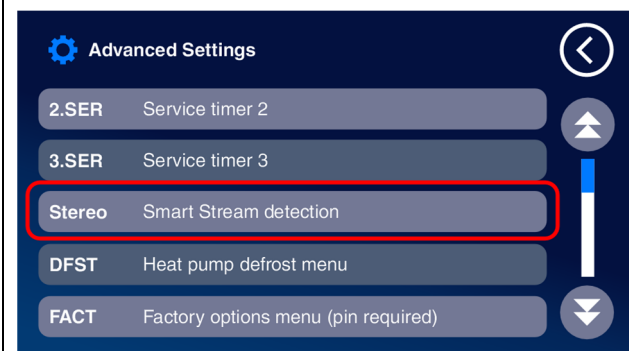
Step 3:
Select ADV - Enter advanced menu



Step 4:
Enter pin (14863) then Enter



Step 5:
Scroll to bottom of Advanced Settings Menu



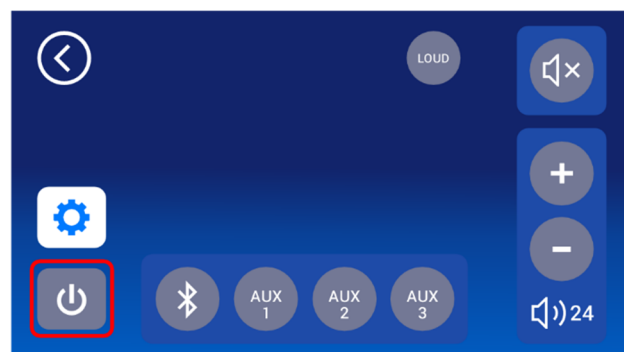
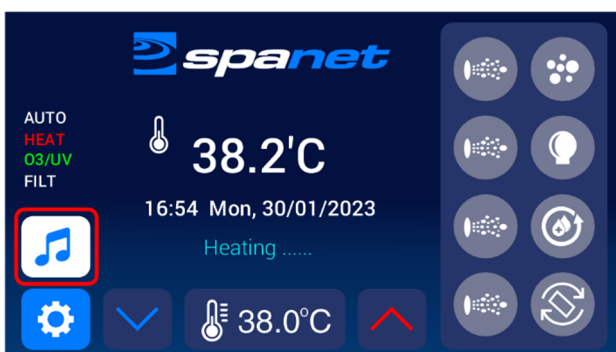
Step 6:
Select Stereo - Smart Stream detection

	<p>Step 7: Press on + button to change to ENABLED, then press SAVE, then use back arrow twice to return to home screen</p>
	<p>Music button will now appear on the home page. Press button to enter stereo interface page to control SmartStream.</p> <p>Note: On initial activation it may take 1-2 minutes for stereo button to appear</p>

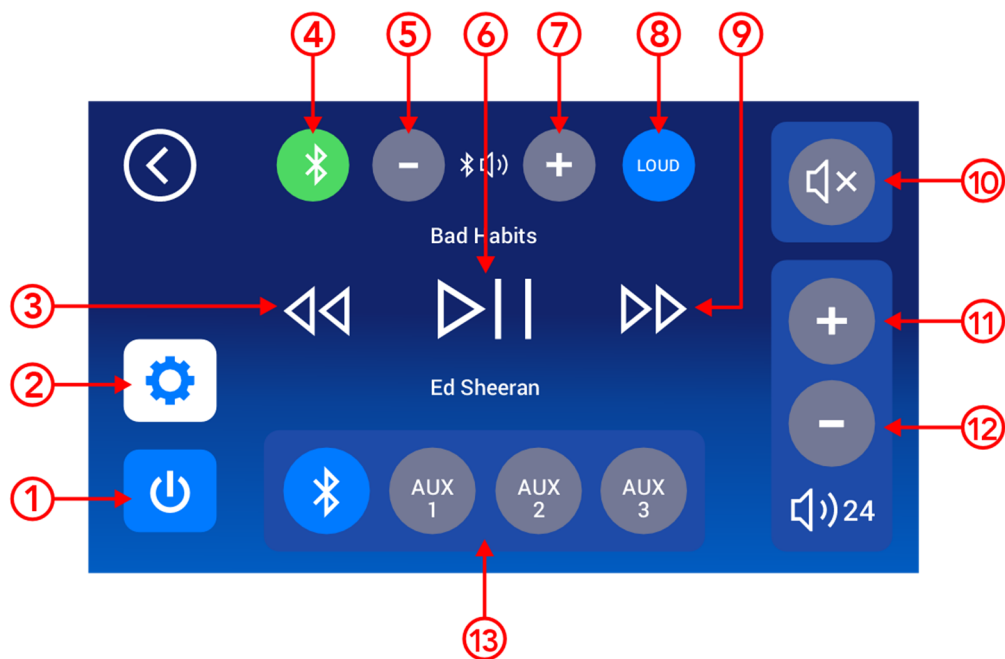
SmartSTREAM Operation with SmartTouch SVT43-V2 Keypad

Power On/Off

Press the music icon to access the stereo interface page, then press the power button to turn the stereo on or off.



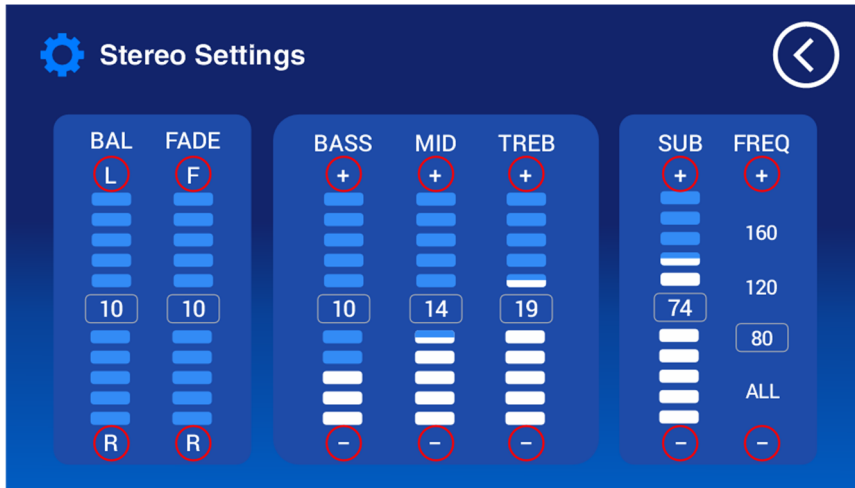
Stereo Interface Button Assignments



FUNCTION	BUTTON	STATUS	NOTES
Power (on /off)	1		Press to turn on or off
Equalizer	2		Equalizer settings (fade/balance/mid/treb/sub)
Volume (+)	11		Increases amplifier volume
Volume (-)	12		Decreases amplifier volume
Play / Pause	6		Works with Bluetooth source only
Track (-)	3		Works with Bluetooth source only
Track (+)	9		Works with Bluetooth source only
Loudness	8		Boost certain frequencies for louder sound
Mute	10		Mutes amplifier
Source (Mode)	13		Select audio input source <ul style="list-style-type: none"> • Bluetooth or • Auxiliary Audio Input 1/2/3
BT Volume (-)	5		Decreases Bluetooth source volume
BT Volume (+)	7		Increases Bluetooth source volume
BT Connection		4	Bluetooth status (flashing=unpaired, solid=paired)

Equalizer Settings page

The equalizer page allows customization of amplifier settings including fade, balance, bass, mid-range, treble, subwoofer level and subwoofer frequency. These can be adjusted by pressing on the + or – buttons above or below each setting (as circled in red in the picture below)



NOTE: On many spa pools, setting the Subwoofer Frequency (FREQ) to “ALL” will provide full range to the subwoofer speaker and in most cases provide a superior overall sound experience.

Bluetooth

The SmartSTREAM stereo system has principally been designed for streaming audio from any Bluetooth compatible device. By default, when the unit is powered ON it will be in Bluetooth mode and will attempt to connect to the last used Bluetooth device. If the last used Bluetooth device is available, it will automatically connect to it and the Bluetooth Connection Status Icon will turn solid green indicating a successful Bluetooth connection. However, if a Bluetooth device has not been paired before, or the last used Bluetooth device is unavailable, the unit will remain waiting for a Bluetooth connection and the Bluetooth Connection Status Icon will be flashing green until a connection is made.

Bluetooth Connection Status Icon



The Bluetooth Connection Status Icon easily identifies the status of the Bluetooth module:

ICON	STATUS
Solid Green	Bluetooth connected successfully
Flashing Green	Bluetooth in pairing mode and waiting for connection
Off	Audio source other than Bluetooth selected or stereo powered off

Pairing

The Bluetooth module will follow the naming format of “SV-AMP-XXXX” where XXXX is the last four digits of the Bluetooth module’s serial number. This name appears on the smart device (phone/tablet/PC) list of Bluetooth devices to connect to.

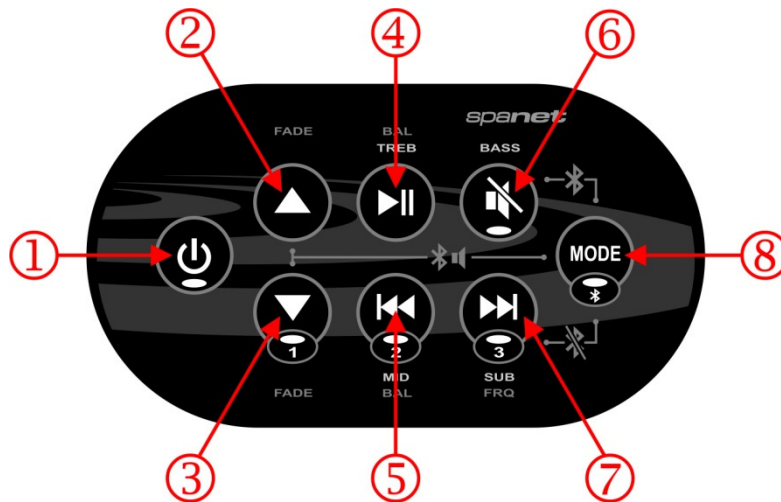
- 1) Ensure the SmartSTREAM system has Bluetooth mode selected with the Bluetooth indicator LED flashing
- 2) Search for Bluetooth devices from your smart device (phone/tablet/PC)
- 3) Select the **SV-AMP-XXXX** device from the list to pair with it (Note: no pin is required)
- 4) Your smart device should automatically pair with the SmartSTREAM module

SmartSTREAM Operation with SV-RT Keypad

Power On/Off

Press and hold the Power On/Off button for 4 seconds to turn the power ON or OFF.

Touchpad Key Assignments



Key Press Operations

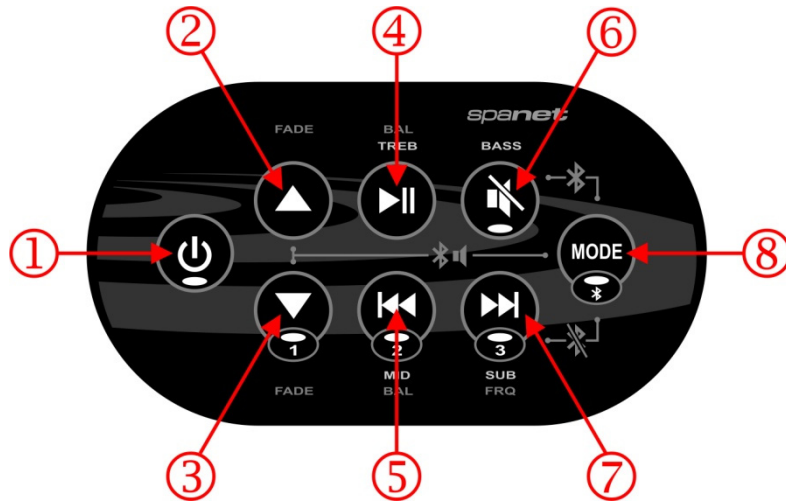
There are two key press operations as follows.

Single key press – the key is pressed and released. The function operates when the key is released.

Hold and tap – the hold button is held down and the tap key is pressed. Each release of the tap key operates the function.

Single Key Functions

FUNCTION	KEY	NOTES
Power (on /off)	1	Press & hold for 4 seconds to turn on or off
Volume (+)	2	Increases amplifier volume
Volume (-)	3	Decreases amplifier volume
Play / Pause	4	Works with Bluetooth source only
Track (-)	5	Works with Bluetooth source only
Track (+)	7	Works with Bluetooth source only
Mute	6	Mutes amplifier
Source (Mode)	8	Select input audio source 1 to 4 <ul style="list-style-type: none"> • 4 = Bluetooth • Each press steps to the next source • A chirp sound is produced to reflect the source. i.e. 1 chirp = source 1, 4 chirps = source 4.



Hold & Tap Key Functions

FUNCTION	HOLD KEY	TAP KEY	NOTES
Bluetooth Connect	8	6	Attempts to reconnect to last connected device
Bluetooth Disconnect	8	7	Kill current Bluetooth connection
Bluetooth Volume (+)	8	2	Increases Bluetooth module volume
Bluetooth Volume (-)	8	3	Decreases Bluetooth module volume
Loudness (on/off)	1	6	Low beep = off, high beep = on
Treble (+)	4	2	Increases audio processor treble filter
Treble (-)	4	3	Decreases audio processor treble filter
Midrange (+)	5	2	Increases audio processor midrange filter
Midrange (-)	5	3	Decreases audio processor midrange filter
Bass (+)	6	2	Increases audio processor bass filter
Bass (-)	6	3	Decreases audio processor bass filter
Subwoofer (+)	7	2	Increases audio processor subwoofer gain
Subwoofer (-)	7	3	Decreases audio processor subwoofer gain
Subwoofer frequency	1	7	Select subwoofer cut off frequency 1 to 4 <ul style="list-style-type: none"> 1 = Flat (no cut off) 2 = 80Hz 3 = 120Hz 4 = 160Hz Each press steps to the next setting A chirp sound is produced to reflect the setting i.e. 1 chirp = flat, 4 chirps = 160Hz
Fader (+)	1	2	Fades audio output to front speakers
Fader (-)	1	3	Fades audio output to rear speakers
Balance (+)	1	4	Balances audio output to left speakers
Balance (-)	1	5	Balances audio output to right speakers
Factory reset	1	3 & 5	Reset all sound settings and levels to default * Press all three buttons to perform reset

Bluetooth Indicator LED

The Bluetooth indicator LED easily identifies the status of the Bluetooth module:

LED	STATUS
On Steady	Bluetooth connected successfully and selected as audio source
Flashing	Bluetooth waiting for connection and selected as audio source
Off	Audio source other than Bluetooth selected or unit powered off

Reconnect a paired device

Once a particular device has been paired to the SmartSTREAM system the Bluetooth module will always attempt to reconnect to that same device. If the Bluetooth signal has been lost/dropped by taking the paired device out of range, or if the SmartSTREAM system has been powered on before the last used device was available you can force the Bluetooth module to reconnect by using the Hold & Tap function. Hold MODE (key 8) and Tap MUTE (key 6).



Volume Control

Audio volume is a combination of the audio source volume (smart device/TV/DVD) times the SmartSTREAM amplifier's volume. **For best audio quality the audio source volume (TV/DVD) or Bluetooth volume (smart device) should be set to maximum and then the SmartSTREAM amplifier's volume adjusted to suit.** This allows the amplifier to amplify more signal than noise producing the best audio quality.

DEVICE	HOW TO ADJUST VOLUME
Bluetooth Volume	Your Bluetooth volume can be adjusted on your smart service itself or via the Bluetooth Volume (+/-) buttons on the SVT43-V2 stereo interface screen (recommend setting to maximum). If using the SV-RT keypad use the Hold & Tap function. Hold (key 8) and Tap (keys 2 or 3) to increase or decrease volume. <i>NOTE: A beep will sound when Bluetooth volume has reached its maximum level</i>
SmartSTREAM Amplifier Volume	Adjusted via single press Volume(+) and Volume(-) keys on the SVT43-V2 stereo interface or SV-RT keypad. <i>NOTE: A beep will sound when volume has reached its maximum level</i>

Bluetooth Volume Adjustment on SV-RT Keypad

Increase BT Volume



Decrease BT Volume



Loudness

The maximum volume can be boosted by activating the loudness feature via the keypad. When loudness is turned on certain frequencies are boosted, particularly the treble. Whilst the overall volume will be increased the general sound quality will become thinner and not as rich. To toggle Loudness on/off use the LOUD Button on the SVT43-V2 Stereo Interface screen or for the SV-RT keypad use the Hold & Tap function. Hold POWER (key 1) and Tap MUTE (key 6).



Audio Input Sources

There are four (4) x audio input sources, one being the Bluetooth source, and three (3) x other auxiliary audio input sources available for connection to a TV, DVD or iPod Dock (if fitted). The auxiliary audio sources connect to the SmartSTREAM system using 3.5mm Stereo audio jacks. Changing audio sources on the SVT43-V2 stereo interface screen is easy, simply select either Bluetooth/Aux1/Aux2/Aux3 buttons. To select a different audio source via the SV-RT keypad, single key press MODE (key 8). Each key press steps to the next input source. There are three (3) x indicator LEDs on the SV-RT keypad (labelled 1, 2, 3) which will illuminate with a steady green light to identify which auxiliary audio source is currently selected. There is a fourth indicator LED for the Bluetooth source (labelled by the Bluetooth symbol).

NOTE: The last used audio source will be remembered when the SmartSTREAM is powered OFF and used when the system is next powered ON

EEPROM (non-volatile) Memory

All SmartSTREAM system settings (audio source, volumes, fader, balance, treble, midrange, bass and subwoofer levels/frequency) are stored in non-volatile memory (EEPROM) so that the settings are remembered when the system is powered OFF. There is no need to adjust the settings when powered is restored unless desired.

Reset to Factory Defaults on SV-RT Keypad

The SmartSTREAM system has been preset to provide optimal sound quality for most transducer speakers and subwoofers. In some instances, users may experiment with the sound levels and find the sound quality has become undesirable. To reset all settings to factory defaults via the SV-RT keypad press the following three key combination: POWER (key 1) + VOLUME(-) (key 3) + SKIP(-) (key 5). A double chirp sound will be produced to acknowledge the factory reset was carried out.

Factory Reset Key Combination on SV-RT Keypad



Legal Information

The *Bluetooth*® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Spa Net Pty Ltd is under license. Other trademarks and trade names are those of their respective owners.

Contains Transmitter Module FCC ID: 2AC7Z-ESP32WROOM32U

Spa Net Pty Ltd

1/103 Mulgrave Road
MULGRAVE NSW 2756
AUSTRALIA

Phone: +61 2 4587 7766

Facsimile: +61 2 4587 8766

Email: service@spanet.com.au

Website: www.spanet.com.au