

SVEN®
YOU WANT – WE CAN

Active Three-way Hi-Fi Stereo
System with Digital Control

OPERATION MANUAL



STUDIO

www.sven.fi

Congratulations on your purchase of the Sven speaker system!

Please read this operation manual before using the unit and retain this operation manual in a safe place for future reference.

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TRADEMARKS

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UNPACKING

Unpack the device carefully. Make sure there are no accessories left in the box. Check up the device for damages; if the product was damaged during transportation, address the firm which carried out the delivery; if the product functions incorrectly, address the dealer at once.

ATTENTION!

Do not switch on the speaker system immediately after you bring it into a room from environment with negative temperature! After unpacking, the speaker system should be kept in conditions of room temperature for at least 4 hours.

CONTENTS

1. DESCRIPTION	2
2. SAFETY PRECAUTIONS	2
3. PACKAGE CONTENTS	2
4. SPECIAL FEATURES	3
5. SPEAKER SYSTEM PLACEMENT	3
6. CONTROL PANEL	4
7. ACTIVE SPEAKER REAR PANEL	4
8. REMOTE CONTROL	5
9. CONNECTION	6
10. OPERATION	10
11. TROUBLE SHOOTING	14
12. TECHNICAL SPECIFICATION	15

Technical support is on www.sven.fi

1. DESCRIPTION

STUDIO three-way Hi-Fi Multimedia Speaker System (MSS) with microprocessor control has a built-in dual-channel Hi-Fi power amplifier, high quality headphone amplifier and high-grade surge protector. The MSS is equipped with a built-in FM tuner, LED display, high quality USB DAC, Distortion effect module, and Karaoke module. Due to all this, STUDIO can be successfully used for providing sound for dance floors and halls, holding rehearsals and concerts without using additional costly equipment. The MSS is made in professional acoustics format, which means using Speakon connectors, solid metal grilles, powder painting, protective corner covers and carry handles.

2. SAFETY PRECAUTIONS

- To avoid electric shock do not open the MSS and do not perform repairs by yourself.
- Do not allow circuit of wires (including grounded ones) between speakers, power amplifier or ground, for it causes damage of power amplifier output stage.
- Do not put foreign objects inside the holes of the MSS. Make sure that needles, hair pins, coins, insects etc. do not get inside.
- Protect the MSS from high humidity, water and dust. Do not locate it in areas with high level of humidity and dust.
- Protect the MSS from heating: do not locate it near a heat source or expose to direct sunlight.
- Do not use gasoline, alcohol or other solvents when cleaning, since they may damage the paint-coated surface of the MSS. Clean it with dry soft cloth only.
- If the MSS does not operate, unplug it and address your dealer.



Caution! High voltage inside! To avoid the risk of electric shock do not open or touch elements inside.

3. PACKAGE CONTENTS

- Active speaker — 1 pc
- Passive speaker — 1 pc
- Acoustic cable — 1 pc
- 2RCA to 2RCA signal cable — 1 pc
- USB cable — 1 pc
- Power cable — 1 pc
- FM antenna — 1 pc
- Remote control — 1 pc
- CR 2032 Battery — 1 pc
- Operation manual — 1 pc
- Warranty card — 1 pc

4. SPECIAL FEATURES

- Built-in dual-channel Hi-Fi power amplifier
- Two CD and PC stereo inputs, USB input, headphone jack, two microphone jacks, guitar connection input, two mono inputs for connecting electronic musical instruments
- Horn tweeters with increased sound pressure
- LED display
- Built-in FM tuner
- Karaoke module with digital control
- Distortion effect module for electric guitars
- Full function remote control
- Master volume control and timbre control, headphone and microphone volume control, reverberation level control
- High quality USB DAC for high fidelity sound transmission via a USB cable by connecting to PC
- High quality headphone amplifier
- Built-in high quality surge protector
- Carry handles
- MDF case of speakers

5. SPEAKER SYSTEM PLACEMENT

• Installation of STUDIO speaker system graded as Hi-Fi (High Fidelity) class system is one of the most important factors in achieving the best sound of the system. One should know that location of speakers affects tonal balance, intensity and quality of bass components, soundstage depth and width, midrange sounds transparency. On the one hand, the closer the speakers are placed to walls and corners, the more powerful the sound of the bass components is. On the other hand, the farther the speakers are located from walls, the better the soundstage depth is rendered. Angular position and height of speakers' location in relation to the listener affect the timbral balance formation (especially, treble), soundstage width, and acoustic image focusing. Therefore speakers are best located along the shorter wall of the room. The listener and the speakers should be located in the corners of an isosceles triangle as shown in the scheme, Fig.1 where optimal ① and partial ② stereo effect zones are shaded. Angular position and height of the speakers' location in relation to the listener should be defined by experiment. The axes of the speakers should not intersect within the area where the listeners are located.

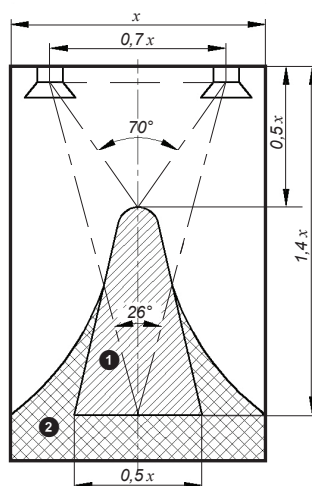


Fig. 1. MSS location scheme

6. CONTROL PANEL

- ① volume: master volume control
- ② treble: treble level control
- ③ bass: bass level control
- ④ balance: balance level control
- ⑤ mic 1: 1st microphone volume control
- ⑥ mic 2: 2nd microphone volume control
- ⑦ reverb.: reverberation effect control
- ⑧ reverb. vol.: reverberation level control
- ⑨ drive: distortion guitar effect level control
- ⑩ contour: guitar timbre control
- ⑪ aux 1: guitar mixing control
- ⑫ aux 2: microphones mixing control
- ⑬ aux 3: 1st electronic musical instrument mixing control
- ⑭ aux 4: 2nd electronic musical instrument mixing control
- ⑮ mic 1: Ø 6.3 mm jack for connecting 1st microphone
- ⑯ guitar: guitar input
- ⑰ LED display screen
- ⑱ input: audio source selection button
- ⑲ standby: standby mode button

Note. *Mixing control knobs ⑪, ⑫, ⑬ and ⑭ function only if microphones, a guitar or other electronic musical instruments are connected to corresponding inputs.*

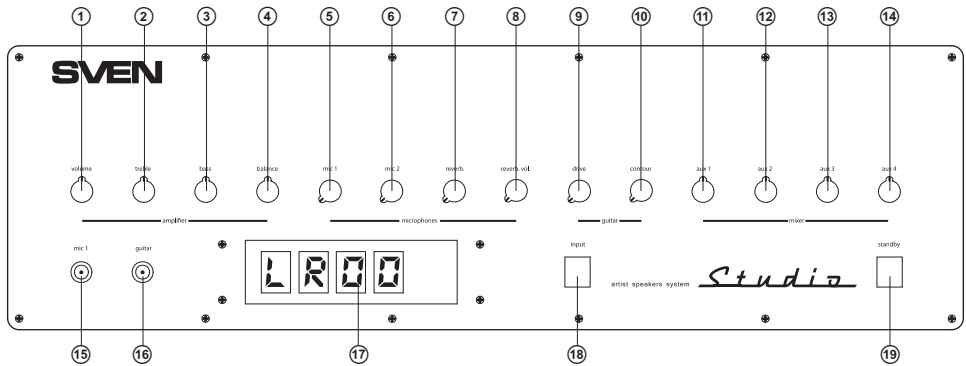


Fig. 2. Control panel

7. ACTIVE SPEAKER REAR PANEL

- ① mic 2: Ø 6.3 mm jack for connecting 2nd microphone
- ② input 1: mono input 1 for connecting electronic musical instruments
- ③ input 2: mono input 2 for connecting electronic musical instruments
- ④ headphones: Ø 6.3 mm jack for connecting headphones
- ⑤ USB: audio input for connecting USB cable
- ⑥ CD: audio input for connecting players
- ⑦ PC: audio input for connecting PC
- ⑧ FM-antenna: input for connecting FM-antenna
- ⑨ POWER: power switch
- ⑩ AC INPUT: input for connecting power cable
- ⑪ Speakon: passive speaker connection input

8. REMOTE CONTROL

- ① STANDBY: standby mode button
- ② MUTE: sound off button
- ③ 0 – 9: numeric keyboard buttons for selecting preset radio stations
- ④ +10: multiple factor button for selecting preset radio stations numbered 10 and up
- ⑤ TUNING«+/-»: radio frequency manual setting buttons
- ⑥ FM: tuner switch-on button
- ⑦ AUTO PRESET: tuner auto setting button
- ⑧ MEMORY STATION+ /-: preset stations successive selection buttons
- ⑨ VOL+/-: master volume control buttons
- ⑩ MIC1+/-: 1st microphone volume control buttons
- ⑪ f+/-: headphone volume control buttons
- ⑫ MIC2+/-: 2nd microphone volume control buttons
- ⑬ INPUT: audio source selection button
- ⑭ MEM: button for presetting stations in the memory of the tuner

Remote control battery installation

- Open the battery compartment at the back of the RC.
- Put in the CR2025 battery (included).
- Close the battery compartment.

Notes:

- **Use the remote control at an angle not more than 30° at a distance not more than 5 meters.**
- **Direct the remote control at the IR receiver display on the active speaker.**
- **If the remote control does not work, check the battery or replace the discharged battery with a new one.**
- **Remove the battery from the remote control, if you aren't going to use it for a long time (more than a week).**

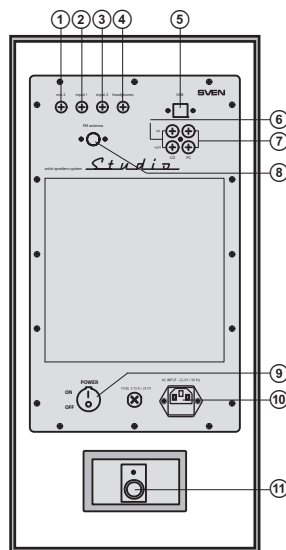


Fig. 3. Rear panel

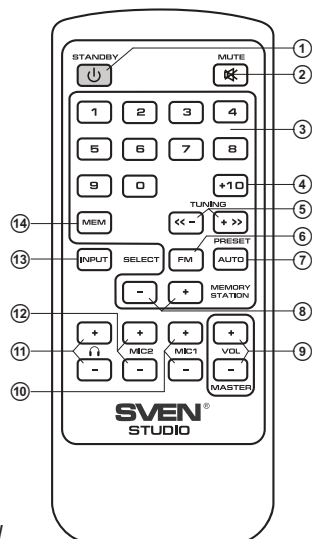


Fig. 4. Remote control

9. CONNECTION

Speaker connection

- Before connecting, make sure that the MSS is unplugged.

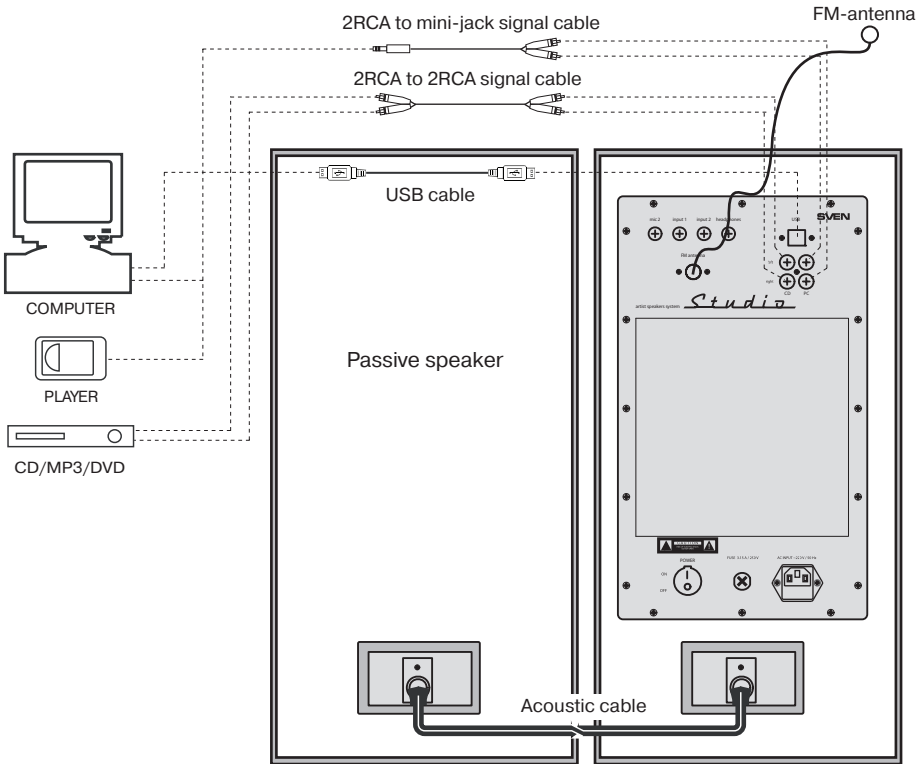


Fig. 5. Connection diagram

- Connect the acoustic cable as shown in the diagram, Fig. 5. To connect the Speakon acoustic cable to the female panel connector on the active or passive speaker, match the projections of the male cable connector with the channels of the speaker female connector (Fig. 6). Push the cable connector end into the female connector until stop, turn it clockwise until click and fix the connector. To disconnect the cable, pull the connector lock, then turn the cable connector counter-clockwise and remove the cable.

Note. If the projections on the male connector end do not match the channels of the female connector, do not apply excessive force to avoid damaging the cable.

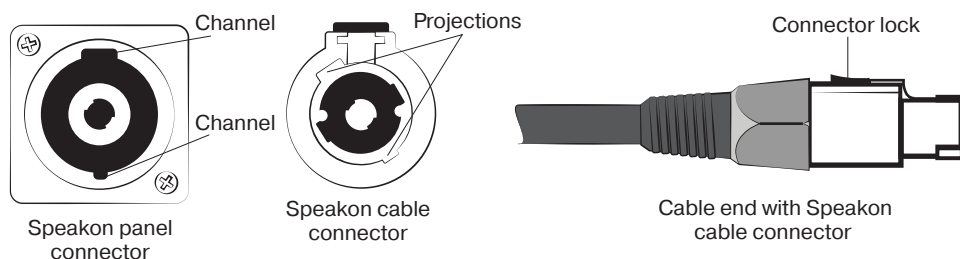


Fig. 6

Connecting the MSS to audio sources

STUDIO Hi-Fi Multimedia Speaker System 2.0 can be connected to virtually any audio source (see Fig. 5).

- Before connecting, make sure that the MSS is unplugged.
- To connect the MSS to a CD/DVD/MP3 player, use the included 2RCA to 2RCA stereo signal cable. Connect the RCA-jacks of the signal cable to the CD input (Ⓒ, Fig. 3) of the active speaker rear panel, and then to the CD/DVD/MP3 player outputs. If your player has mini-jack inputs, use a 2RCA to mini-jack (Ø 3.5 mm) stereo signal cable or a mini-jack to 2RCA adapter (not included).
- To connect the MSS to a PC sound card, use a 2RCA to mini-jack (Ø 3.5 mm) stereo signal cable or a mini-jack to 2RCA adapter (not included). For this, connect the RCA jacks to RCA PC input (Ⓙ, Fig. 3) of the active speaker rear panel, and the mini-jack – to the sound card output.
- To connect the MSS to a USB port of your PC or laptop, use the USB cable included in the package contents. In order to do this, attach the USB cable connector to the USB input (Ⓢ, Fig. 3) on the active speaker rear panel, and insert the other connector of the USB cable to an available USB port of your PC or laptop. The MSS has a built-in high quality USB DAC providing clear sound transmission via a USB cable.
- Two microphones can be connected to the MSS: the 1st one – to the mic 1 input (Ⓜ, Fig. 2) on the control panel and the 2nd one – to the mic 2 input (Ⓜ, Fig. 3) on the active speaker rear panel. A guitar can be connected to the guitar input (Ⓜ, Fig. 2) on the control panel, headphones – to headphones input (Ⓜ, Fig. 3) on the active speaker rear panel. Mono inputs input 1 (Ⓜ, Fig. 3) and input 2 (Ⓜ, Fig. 3) on the active speaker rear panel serve to connect other electronic musical instruments, except for an electric guitar.

Note. Mind the correct connection of all the inputs and outputs and proper fixation of connecting cables in the jacks, to avoid sound distortion during reproduction.

FM antenna installation and connection

- Insert the included room FM antenna into the FM antenna input (Ⓜ, Fig. 3) on the rear panel of the active speaker, as shown in the diagram, Fig. 5. Install the FM antenna in such a way that reception quality is satisfactory, and then fix the antenna in this position.

10. OPERATION

Switching On

- To switch on the MSS, insert the power cable into the input (Ⓣ, Fig. 3), and then insert the power cable plug into the mains socket. Shift the POWER On/ Off switch (Ⓣ, ON position) on the rear panel of the active speaker into ON position. Then press STANDBY button (Ⓛ, Fig. 4) on the remote control or STANDBY button (Ⓣ, Fig. 2) on the control panel.
- Before switching on an audio source we recommend to adjust the master volume to its minimum by pressing VOL– button (Ⓣ, Fig. 4) on the remote control or by turning the volume knob (Ⓛ, Fig. 2) on the active speaker control panel counterclockwise until stop.

Audio Source Selection

- To select an audio source, press INPUT SELECT button (Ⓣ, Fig. 4) on the remote control or INPUT button (Ⓣ, Fig. 2) on the control panel. When the INPUT button is pressed, the LED display on the control panel will successively show names of inputs: *CD* (Fig. 7), *PC* (Fig. 8), *USB* (Fig. 9), referring to the connected audio source, or FM station, for example, «100» (Fig. 10).

IMPORTANT! If the MSS is connected via a USB port, the computer must find this connection and install (if necessary) corresponding drivers. Drivers are not required for Windows XP/Vista/7.

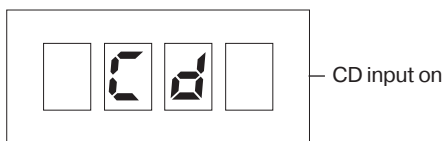


Fig. 7

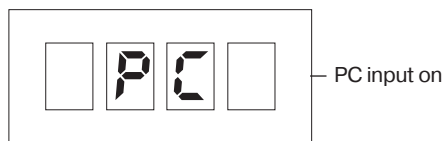


Fig. 8

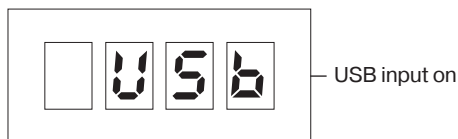


Fig. 9

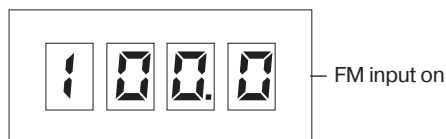


Fig. 10

MSS setting with audio sources connected

- Master volume can be adjusted by pressing VOL+ и VOL– buttons (Ⓣ, Fig. 4) of the remote control or turning the volume knob (Ⓛ, Fig. 2) on the active speaker control panel. Volume increasing/reducing will be shown on the LED display (See Fig. 11 and 12). The volume level ranges from -99 (minimum, the sound can't be heard) to 00 (maximum).

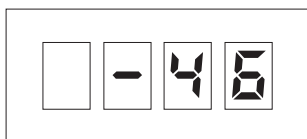


Fig. 11

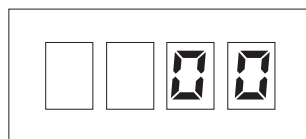


Fig. 12

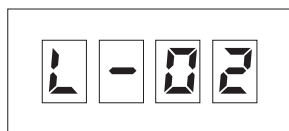


Fig. 13

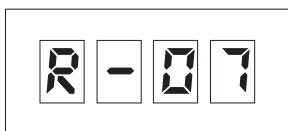


Fig. 14

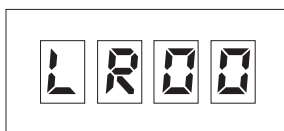


Fig. 15

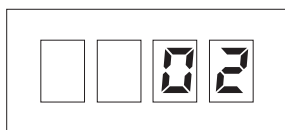


Fig. 16

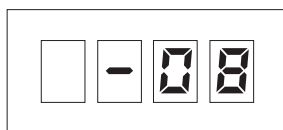


Fig. 17

Other settings, such as balance level between the right and left speaker, treble level, bass level, microphone, headphone volume level, guitar or other electronic musical instruments (bass guitar, synthesizer) volume level, can be adjusted with corresponding remote control buttons or active speaker control panel knobs.

- Adjustment of balance between the left and right speakers is made with balance knob (④, Fig. 2) on the control panel. The LED display will show the current balance, for example, L-02 or R-07 (Fig. 13 and 14). Using the balance knob adjust the desired balance between the speakers (Fig. 15) – LR00. The level can range from –15 to 00.
- Adjustment of treble level is made with treble ② and bass ③ knobs on the control panel. The LED display will show the bass and treble level, for example, 02 or –08 (Fig. 16 and 17). Using the treble and bass knobs, adjust the desired level. The level ranges from +14 to –14.
- Adjustment of volume level of microphones is made with mic 1 (⑤, Fig. 2) and mic 2 (⑥, Fig. 2) knobs on the control panel. The LED display will show the microphones' volume level (Fig. 18 and 19). Using the mic 1 and mic 2 knobs, adjust the desired volume level. For convenient use of the MSS there is an option of quick microphone volume level adjustment with MIC1– / MIC1+ (Ⓣ, Fig. 4) and MIC210 / MIC2+ (Ⓤ, Fig. 4) buttons of the remote control. The level ranges from –99 (minimum) to 00 (maximum).

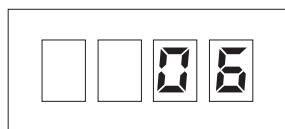


Fig. 18

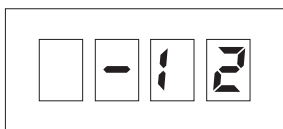


Fig. 19

- Adjustment of headphone volume level is made with Ω - and Ω + buttons (Ⓢ, Fig. 4) on the remote control. The LED display will show the headphone volume level, for example, P 00 or P-03 (Fig. 20 and 21). Using the Ω - and Ω + buttons, adjust the desired volume level. The level ranges from -40 (minimum) to 00 (maximum).

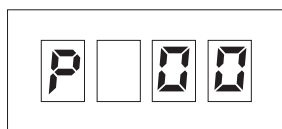


Fig. 20

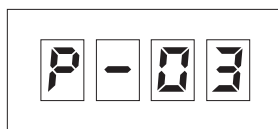


Fig. 21

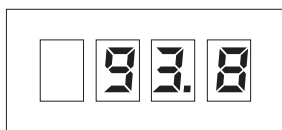


Fig. 22

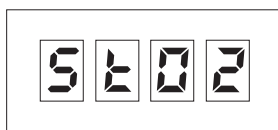


Fig. 23

Note. In order not to distract others' attention, adjust the master volume control to its minimum by pressing VOL- button (Ⓣ, Fig. 4) of the remote control or turning volume knob (Ⓛ, Fig. 2) on the active speaker control panel.

FM Tuner Settings

- To switch on the built-in FM tuner, press FM button (Ⓢ, Fig. 4) on the remote control or find the FM tuner by successively pressing INPUT button (Ⓢ, Fig. 2) on the control panel. The LED display will show such an inscription as 93,8 (Fig. 22), which will mean 93,8 FM station.

Note. If you have preset radio stations before, you can find the number of the desired station using quick search MEMORY STATION- / MEMORY STATION+ buttons (Ⓢ, Fig. 4) on the remote control when the FM tuner is on, and the tuner will switch on at the corresponding frequency. The LED display will show an inscription like St02, where 02 is the preset number of the station (Fig. 23).

- Autotuning.** Press AUTO PRESET button (Ⓢ, Fig. 4) on the remote control, and the FM tuner will begin scanning the FM-range (87 MHz– 108 MHz) and successively record the stations found into the memory of the device: St00, St01, St02, etc. After scanning, the first preset station will switch on automatically. After autotuning, you can enter the number of the desired station using the numeric keyboard (Ⓢ and Ⓣ buttons (see Fig. 4) of the remote control. For example, if you press 5, the LED display will show St05 inscription (Fig. 24); to enter 10, press only +10 button (d, Fig. 4); to enter 20, press +10 button twice; to enter 30, press +10 button three times. If you need to enter 14, first press +10 button (Ⓢ, Fig. 4), then button 4 on the numeric keyboard (Ⓢ, Fig. 4), and the LED display will show St14 inscription (Fig. 25).

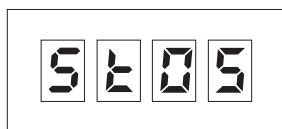


Fig. 24

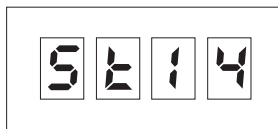


Fig. 25

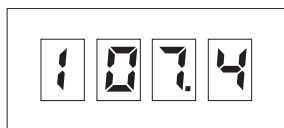


Fig. 26

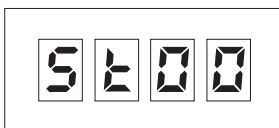


Fig. 27

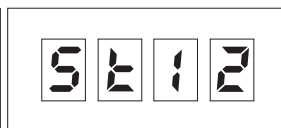


Fig. 28

• **Manual tuning.** You can search radio stations manually by successively pressing TUNING«– and TUNING+» buttons (Ⓢ, Fig. 4) on the remote control. Short (less than 0.5 sec) pressing of the button allows to adjust the frequency to 0.1 MHz. If the button is pressed longer (more than 0.5 sec) the scanning continues up to the next station. Scanning the stations up (+) and down (–) you find the necessary one. When a new station is found, the information about it will show on the LED display.

• **Memorizing (presetting).** During the manual search, stations can be memorized, assigned new numbers and recorded into the memory of the device. If you want to reprogram a certain station, you can assign its number to another one. To do this, after finding a desired station, for example, 107,4 FM, (The LED display will show 107,4 inscription, see Fig. 26), press MEM button (Ⓜ, Fig. 4) on the remote control, assign this station a two-digit number, such as St00, then using the numeric keyboard buttons (see Fig. 4) of the remote control, enter this number into the memory of the device and press MEM button again. The assigned number will show on the LED display (Fig.27).

So, having scanned all the stations, you assign numbers to selected stations using the numeric keyboard buttons on the remote control and enter these numbers into the memory of the device. Then, to find the desired station, you press MEMORY STATION–/MEMORY STATION+ (Ⓢ, Fig. 4) quick search buttons on the remote control until you find the number of your favourite station, and your tuner will switch on at this station frequency. If you remember the number of the station, for example, St12, you can quickly enter it using the numeric keyboard buttons c and d on the remote control, first pressing button +10, then button 2. The LED display will show the inscription of the selected station – St12 (Fig. 28).

Note. If you want to skip an undesired station while manually scanning the FM-range, press the TUNING «– or TUNING+» button on the remote control and hold it for more than 0,5 sec. To delete an undesired station from the memory of the device reprogram its number by assigning it to another found station.

Headphone usage

STUDIO stereo system has a Ø 6.3 mm jack for connecting headphones (Ⓢ, Fig. 3) on the active speaker rear panel. It is also equipped with a built-in high quality headphone amplifier, which allows to enjoy music from an audio source via headphones without distracting others' attention. In order to switch on the headphones, connect them to the above mentioned jack (Ⓢ). Then, using INPUT button (Ⓢ, Fig. 4) on the remote control or INPUT button (Ⓢ, Fig. 2) on the active speaker control panel, find an audio source. Adjustment of headphone volume level is made with Ⓢ– and Ⓢ+ (Ⓢ, Fig. 4) buttons on the remote control.

Note. In order not to distract others' attention, adjust the master volume control to its minimum by pressing VOL– button (⑨, Fig. 4) on the remote control or turning volume knob (①, Fig. 2) on the active speaker control panel. MUTE button (②, рис. 4) switches off the sound.

Audio mixing

STUDIO stereo system has a built-in audio mixer, which allows to mix signals from 6 channels: the main channel, two microphones, electric guitar and two electronic musical instruments. Control knobs on the active speaker control panel – guitar mixing level control aux 1 (⑩, Fig. 2), microphones mixing level control aux 2 (⑪, Fig. 2) and electronic musical instruments mixing level controls aux 3 (⑫, Fig. 2) and aux 4 (⑬, Fig. 2) – make it possible to use the system for providing sound for dance floors, presentations and other cultural events.

Microphone usage

STUDIO stereo system has two Ø 6.3 mm jacks for connecting microphones: mic 1 on the control panel and mic 2 on the active speaker rear panel, making it possible to use the connected microphones when playing Karaoke soundtracks.

- To switch on the microphones, connect them to mic 1 (⑭, Fig. 2) and mic 2 (⑮, Fig. 3) jacks. You can connect one microphone or both microphones simultaneously. Then adjust the desired volume level with a volume knob (①, Fig. 2) on the active speaker control panel or with VOL+ и VOL– (⑨, Fig. 4) buttons on the remote control. The 1st microphone volume is adjusted with MIC1– / MIC1+ buttons (⑯, Fig. 4) on the remote control or mic 1 knob (⑤, Fig. 2) on the active speaker control panel. The 2nd microphone volume is adjusted with MIC2– / MIC2+ buttons (⑰, Fig. 4) on the remote control or mic 2 knob (⑥, Fig. 2) on the active speaker control panel.
- Then you can make presetting. To do this, using INPUT button (⑱, Fig. 4) on the remote control or input button (⑲, Fig. 2) on the active speaker control panel, select an audio source you want to lay the voice over. Then adjust the audio source volume and microphone (both microphones) volume to the same level. After this choose reverberation effect and level with reverb (Ⓣ, Fig. 2) and reverb vol (Ⓢ, Fig. 2) knobs, thus giving the sound of the voice a desirable colouring.
- If both microphones are connected, you can set a desirable volume level for each microphone separately with buttons MIC1– / MIC1+ and MIC2– / MIC2+ respectively on the remote control or with mic 1 (⑤, Fig. 2) and mic 2 (⑥, Fig. 2) knobs respectively on the control panel. You can mix the sound: in this case the signal from two microphones is mixed, the volume level of both microphones simultaneously in relation to the chosen audio source is adjusted with aux 2 control knob (⑫, Fig. 2).

Usage of electronic musical instruments

STUDIO stereo system has one guitar mono input (Ø 6.3 mm) on the control panel (⑲, Fig. 2) for connecting an electric guitar, and two mono inputs (Ø 6.3 mm) on the active speaker rear panel for connecting other electronic musical instruments: input 1 (②, Fig. 3) and input 2 (③, Fig. 3).

- **Electric guitar usage.** To use an electric guitar, connect it to guitar input. If you use the MSS to enhance the sound of the guitar, switch off the Distortion module by turning drive control knob (⑩, Fig. 2) counterclockwise until clicking position. Then adjust volume level with aux 1 knob (⑩, Fig. 2), adjust the coloring of its sound with contour knob (⑩, Fig. 2) on the active speaker control panel.

- If you want to activate Distortion module to achieve the distortion effect in the sound of the electric guitar, turn the drive control knob (Ⓣ, Fig. 2) clockwise to switch on this module. Use the same control knob to adjust distortion effect level.

- **Usage of other electronic musical instruments.** Other electronic musical instruments (bass guitar, synthesizer, etc.) are connected to mono inputs input 1 and input 2. Their volume level is adjusted with aux 3 (Ⓢ, Fig. 2) и aux 4 (Ⓣ, Fig. 2) control knobs.

Note. Remember that volume and timbre level of the connected electronic instruments are adjusted with volume, treble and bass control knobs respectively. Remember also that the sound of these instruments will be laid over the audio signal of any switched on source.

STANDBY mode

- STANDBY function is designed to quickly switch on/off the device and economize power consumption. Press STANDBY button (Ⓛ, Fig. 4) of the remote control or STANDBY button (Ⓢ, Fig. 2) of the active speaker control panel to turn on this function. If the STANDBY mode is on, the MSS enters Sleep mode. Press STANDBY button again, and the device will return to operation mode.

MUTE mode

- To turn off the sound press MUTE button (Ⓜ) on the remote control. To switch on the sound press MUTE button (Ⓜ) again.

11. TROUBLE SHOOTING

Problem	Cause	Solution
The MSS does not turn on.	The MSS isn't connected to a mains outlet.	Check the connection.
	Power switch is off.	Turn on the switch.
No sound.	Volume level is set at minimum value.	Adjust the volume control knob.
	The audio source is improperly connected.	Connect audio sources correctly.
There is too quiet sound of speakers.	Volume level is set at minimum value.	Adjust volume control knob.
Distortion of sound.	Large amplitude of the input signal.	Turn down the source volume and MSS volume.
The remote control is not working.	The battery is discharged.	Replace the battery with a new one.
	There is direct sunlight.	Change location of subwoofer or remote control.
	Obstacle between the remote control and the receiver on the control panel.	Change the speaker or remote control location.
The FM-tuner is not working.	The FM-tuner is not connected.	Connect the FM-antenna.
	Poor reception of antennas.	Connect an external FM-antenna.

If none of the above methods can solve the problem, please seek professional advice at your nearest service center. Never attempt to repair the product yourself.

12. TECHNICAL SPECIFICATION

Parameter, measurement unit	Value
Speaker system	
Output power (RMS), W	300 (2 × 150)
Frequency response, Hz	35 – 20 000
Tweeter size, mm	Ø 63
Midrange speaker size, mm	Ø 203
Woofer size, mm	Ø 381
Voltage supply, V/Hz	~220/50
Dimensions (one speaker) (W × H × D), mm	445 × 900 × 472
Weight (two speakers), kg	84.0
FM tuner	
Frequency range, MHz	87 ~ 108
Tuner sensitivity, dB	≤ 20
S/N ratio, dB	≥ 45

Notes:

- **Technical specification given in this table is supplemental information and cannot give occasion to claims.**
- **Technical specification is subject to change without notice due to improvement of SVEN production.**

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Уполномоченная организация в России: ООО «РТ-Ф»,
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Постачальник/імпортер в Україні: ТОВ «СВЕН Центр».
Київська область, м. Переяслав-Хмельницький,
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