



TP900 Series User's Manual

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Preface

Dear Valued Customer,

Thank you for your purchasing of SensaSound Professional THX Ultra Certified TP900 Series Speakers. You are about to experience the beauty and charm of nature sound with the latest advancements in sound technology. Before you unpack and install the product, we encourage you to read through this user's manual to learn all the features and capabilities of your new speakers. From correct system connection, placement and optimized performance, this manual will guide you through from the beginning to the end. Should you still have any questions about the products, please contact your local dealer or directly contact us about your inquiry. Welcome to our SensaSound family, it is time to enjoy your home entertainment!

SENSASOUND TEAM

Cautions

This symbol warns the presence of dangerous voltage inside the enclosure. There is a high risk of electric shock if the product is opened at which the symbol appears. Please follow all instructions specified in this manual.



Unpacking Instruction

1. Before unpacking the box, check the integrity of the package and ensure that there is no visual signs of damage. Otherwise you should consult your SensaSound dealer before you start the installation.
2. When unpacking the box, handle with care in order to avoid any damage to the product.
3. Keep the original carton for future shipping.

Important Safety Notice

Read and follow these instructions:

1. Do not use the speakers anywhere near water or in any wet environment.
2. Clean the speakers only with a dry cloth.
3. Keep the speakers away from any sources that produce heat.
4. The speakers should be properly installed so that its location or position does not block any ventilation openings. Also, it should not be placed in a built-in installation, such as a bookcase or cabinet which may impede the air flow.
5. Power cords should be protected so that they are not likely to be walked on or pinched especially near the plugs, convenience receptacles, and the point where they exit from the speakers.
6. Do not defeat the safety purpose of the polarized or grounding-type plug.
7. Only use accessories that are specified by the manufacturer.
8. In order to prevent the damage to the product during lightning or power-line surges, unplug the speakers from wall outlet.
9. Use the appropriate shipping tools when moving the speakers to avoid the injury from tip-over and fall-off.
10. Do not overload wall outlet and extension cords in order to avoid the risk of fire or electric shock.
11. Ask for service assistance from qualified personnel when the speaker has been damaged, such as damage to the supply cord or plug, liquid spillage into the speaker, damage to the speaker from fallen objects, significant change in performance, malfunctions or water exposure etc.
12. Unplug the power cord from the speaker when unused for a period of time.
13. The objects which are filled with water, such as vases, should not be placed on the speaker.
14. Do not place the speaker on unstable stand, shelf, bracket or table. This may cause a serious injury and product damage. Please follow all instructions in this manual.

Important: Turn off all equipment before you making any connection.

Product Features

THX Ultra Certified

TP900 passed over 500 THX laboratory tests ensure full impact experiences in living rooms and home theaters of all sizes; THX Reference Level matches the exact volume level used in the mix room by the sound designer so that you hear precisely what the artist hears.

Controlled directivity

Function well both as LR and center channel to ensure the highest performance of the whole system while have no compromise on the installation.

Advanced tweeter and woofer design

Fully leverage the world-class unit engineering technology. All tweeters use the most advanced Danish engineered tweeters and all woofers use the cutting-edge US engineering technology.

Special high transparency grill

All speakers use high transparency grill design to improve details that participate in obtaining low resonance frequency, low distortion and very high frequency extension.

Computer optimized asymmetrical crossover

To compensate the inter driver time delay and achieve the highest balanced performance of the system as a whole.

About THX and THX Ultra Certification

THX, standing for “Tomlinson Holman’s eXperiment”, is an American high-fidelity audio/visual reproduction standard and certification system, developed by the sound technicians behind the Star Wars movies, by its namesake at Lucasfilm studios. They have developed a series of certifications for movie theaters, screening rooms, home theaters, computer and car audio systems etc.

THX certification is an assurance to consumers of uncompromised quality, best-in-class performance and consistency. In order to get THX Certified, all products need to go through the industry’s most rigorous performance testing in order to meet the highest qualifications for quality.

THX Ultra is specified and designed for home theaters or living rooms capable of THX reference Level in a room up to 3,000 cubic feet. In order to get THX Ultra Certified, all speakers need to go through continuous output tests and the dynamic tests. All in all, THX Certification is a guarantee that products truthfully deliver the artist’s intention.

Supplied Accessories

Glove	1
User’s Manual	1
Warranty Card	1
Sponge	1

Connection and Installation

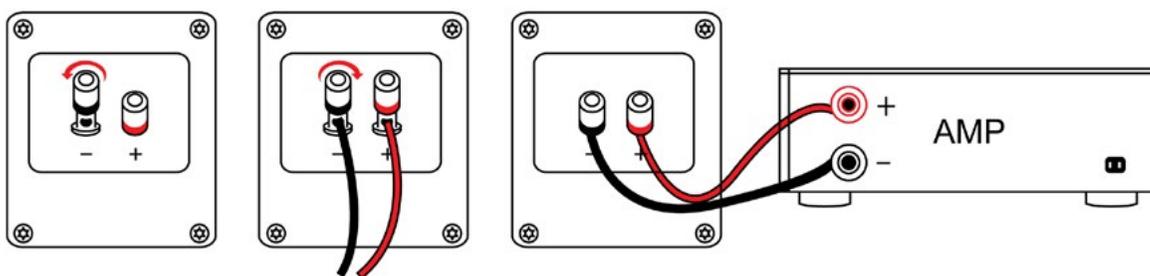
Important: Turn off all equipments before you making any connection.

Properly connect the system for achieving the best performance. If possible, choose the highest quality cable within your budget. You need thicker cable for longer runs.

You have several options for connection. SensaSound Gold-Plated binding post is easily matched to different connectors such as bare wire, banana plugs, flat cable, round cable and spade lugs. Commonly we recommend to use bare wire or banana plugs.

Bare Wire

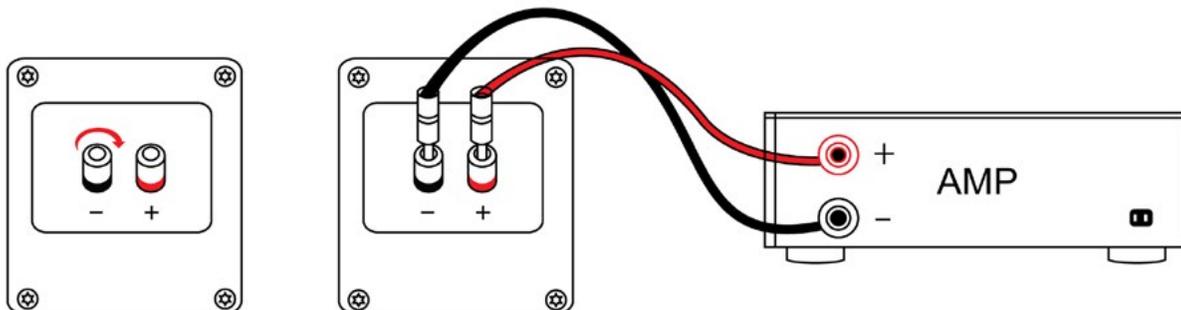
- 1.If you choose to use bare wire, first separate your wire into two pieces and strip $\frac{1}{2}$ " of insulating layer off from the end of each wire.
- 2.Twist the exposed copper strands until they are tightly unified.
- 3.Unscrew the binding posts cap in a counter-clockwise direction.
- 4.Insert the bare speaker wire into the hole of binding post and tighten it in a turning-clockwise direction. Make sure that you will not insert the insulation section into the hole as it may interfere the connection.
- 5.Note that there is a red (+) and a black (-) terminal on the rear of each speaker. Make sure that you connect the positive (+) terminal of your amplifier or receiver to the red (+) terminal on your speaker, and connect the negative (-) terminal of your amplifier or receiver to the black (-) terminal on your speaker.



Banana Plugs

If you prefer to have a flexible location with different speakers, you can choose banana plugs connection for a convenient connect and disconnect.

- 1.Most banana plugs has obvious color-coding for red (+) indicates positive terminal and black (-) indicates negative terminal.
 - 2.Insert the banana plugs respectively into the right end of binding posts on rear of speaker.
 - 3.Make sure that the banana plugs are completely connected with the binding posts.
- Connect the positive (+) terminal of your amplifier or receiver to the positive(+) terminal on



There are 2 pairs of binding posts on the rear of TP800 so you can have several connected options.

Single–Wiring

Single wiring is the most conventional connection.

1. Keep the terminal links in place, you can also use bare wire to link the terminal.
2. Just connect one pair of terminals to the amplifier. Always make sure the connection consistency of terminal polarity.

Bi-Wiring

Bi-wiring can improve the low-level details and overall transparency.

1. Remove the terminal links from the speakers.
2. Connect one set of speaker wires to the upper terminals on speaker and one set to the lower terminals on speaker. Connect them independently to the amplifier output.

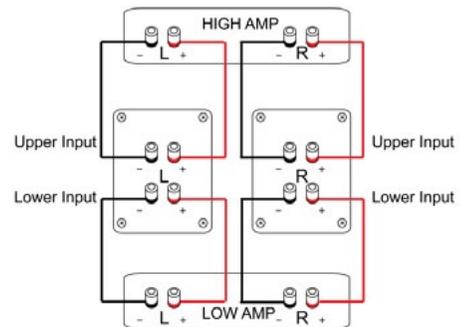
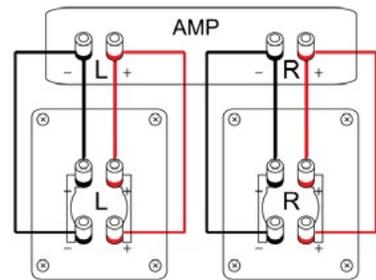
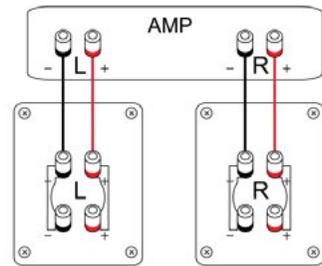
Bi-Amping

Bi-amping allows you to use two amplifiers for greater dynamics.

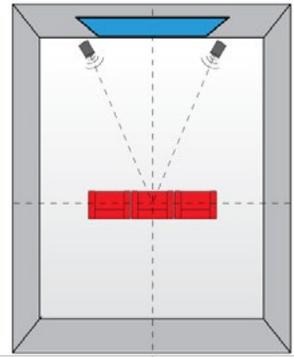
1. Remove the terminal links from the speakers.
2. Connect the upper set terminals on speaker to one amplifier output and follow the same principle to do the lower set terminals on speaker. We recommend you to use identical amplifiers and identical gains.

System Set Up

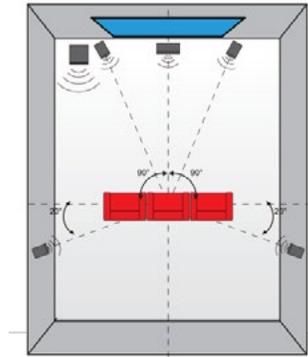
1. Enter into the receiver’s setup menu and go to “speaker setup”. Select “small” for surround and center speakers, and select “large” for floor standing speakers.
2. Choose the proper crossover point according to your speaker specification.
3. In the speaker distance menu, you should measure the distance between your speakers and your mainly listening position, then input the distance into the menu.
4. When you set up the volume level menu, you should adjust the volume level carefully until each speaker is at the same loudness and at a comfortable listening volume. A SPL meter can help you do the setup more accurate.



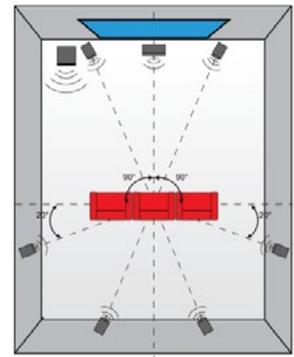
Golden Rule Placement



HiFi Stereo



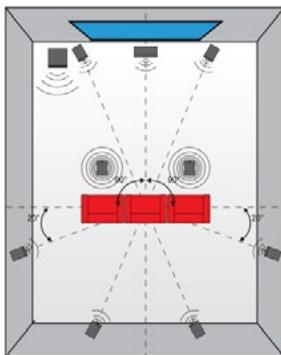
Home Theater 5.1



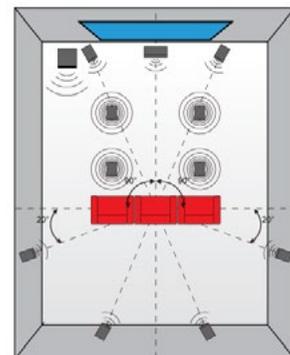
Home Theater 7.1

- 1.The front speakers should always be kept at the same horizontal level with the audience ear height, if not, then they should be kept their height difference at least within 24". This is because man's ear is more sensitive to horizontal position rather than vertical position.
- 2.Do not place any sofa or furniture between the speakers and listening positions.
- 3.For surround speakers, the best height is above 26" from listener's ears which is generally 70"to 80" above the ground.
- 4.Surround speakers should form a 90°-110° angle to center speaker, while the rear speakers form a 135°-150° angle to the center speaker.

Dolby Atmos Placement



Dolby Atmos 7.1.2



Dolby Atmos 7.1.4

- 1.If your AV receiver supports Dolby Atmos technology, you can upgrade your home theater system into Dolby Atmos 7.1.2 or Dolby Atmos 7.1.4 system.
- 2.Dolby Atmos system is flexible for surround speaker placement. This system can deliver a much greater enveloped sound field by adding surround speakers into the ceilings.
- 3.The theater room ceiling should be flat with no arches, edges or corners for a smooth response.
- 4.The ceiling height is ideal between 94" to 106" for a best audio performance.

Design

TP900 Design

Despite the strict requirements regarding dispersion characteristics, the TP900 LCR speakers were granted the coveted THX Ultra™ certification for both horizontal and vertical operations. The THX Ultra-certified TP900 LCR front loudspeaker is perfectly for home cinema. The TP900 speakers leverage today's cutting-edge technologies of both Danish engineering for its 30mm high-quality tweeter design for featuring an array of performance improving details that participate in obtaining low resonance frequency, low distortion and very high frequency extension; and US engineering for woofers design, which brings the speakers to the most impressive high-end response and greater extension, enhanced imaging and powerful dynamics. This combination design creates the cleanest, most natural sound possible. It achieves a level of efficiency; even smaller AV receivers make it possible to experience a great cinema feeling with TP900 LCR speakers. It is available in beautiful, modern, matte black finishes and with a more coherent and immersive sound; with the TP900 speakers you'll appreciate it's ability to capture the explosive dynamics of the latest Hollywood blockbuster. This is a must-to-have LCR speaker for your Home Cinema enjoyment.

TP900SS Design

SensaSound's Innovative engineering and intelligent design come together in the THX Ultra-certified TP900SS surround home theater speakers. Acoustically voiced to blend seamlessly with all models in the SensaSound THX series speaker lines, the TP900SS surround speaker deeply immerses you in the onscreen action by conveying a massive soundstage and rendering the smallest details with pinpoint clarity and spatial imaging. The THX Ultra-certified TP900SS uses monopole woofer with dipolar tweeters surround speaker is specially tuned crossover for optimally diffuse sound emission according to the THX Ultra strict requirements, and it is designed for authentic cinema sound! All of the chassis have been specially developed for the TP900SS set in order to meet the very strict requirements of the THX Ultra standard.

TP900SS passed over 500 THX laboratory tests ensure full impact experiences in living rooms and home theaters of all sizes; THX Reference Level matches the exact volume level used in the mix room by the sound designer so that you hear precisely what the artist hears; Every Seat is the Best Seat, the THX Certified TP900SS speakers feature controlled directivity evenly distributing sound for a full sound stage everyone in the room can enjoy.

TP900 Series Specification

TP900

Frequency Response.....	70Hz~20KHz
Impedance.....	4Ω
Sensitivity.....	90dB
Recommend Power.....	100W
Max Power.....	200W
Crossover.....	2.0KHz
Tweeter.....	1.2"Silk Tweeter
Woofers.....	6.5" P.P Cone
Enclosure Type.....	Sealed Enclosure
Dimensions (W*H*D).....	8.8"*20.7"*11.65"(22.4cm*52.6cm*29.6cm)
Weight.....	28.99 lbs (13.15 Kg)

TP900SS

Frequency Response.....	60Hz~20KHz
Impedance.....	8Ω
Sensitivity.....	88dB
Recommend Power.....	60W
Max Power.....	120W
Crossover.....	1.8KHz
Tweeter.....	1"Silk Tweeter
Woofers.....	6.5" P.P Cone
Enclosure Type.....	Sealed Enclosure
Dimensions (W*H*D).....	18.3"*12"*4.5"(46.5cm*30.5cm*11.5cm)
Weight.....	16.31 lbs (7.4 Kg)

Warranty

We promise that all SensaSound products are elaborately designed and manufactured with the most strict quality requirements. Under normal use we warranty them free from defects in materials and workmanship from the original purchase date. The warranty for TP900 is valid for 3 years.

The warranty for TP900SS is valid for 3 years.

If any defects in materials and workmanship occur within the limited warranty period, you can get immediate help from the following ways:

Contact the dealer from whom you purchased the product

Or you can send an email to service@sensasound.com

However, after the warranty period, you will be responsible for the charges incurred from spare parts, labor service and shipments, etc.

No matter which way you choose to obtain the service, we need the information of model, serial number, original purchase date and detailed problem description from you. Once we have confirmed that any parts need to be repaired or replaced, it is required that you carry or send your products to the SensaSound dealer where you bought them. Please note, that we also need your warranty card and purchase proof, so keep them in a secured place after your purchasing of SensaSound products.

Important:

Please do not entrust any repair work to unauthorized person or party. Only the authorized SensaSound dealers and distributors can provide the original components necessary for servicing the products. We do not warranty any service to any modified parts that are not from authorized ways.

Warranty does not include (but are not necessarily limited to) :

- Those caused by force majeure and acts of nature.
- Damages caused by any use other than correct use described in the user manual.
- Damage caused by improper installation, adjustment or was installed in seal up environment.
- Damage caused by shipment other than arranged by SensaSound.
- Bought, repaired, modified or use of parts that are not made or authorized by SensaSound.
- If the serial number has been altered, defaced or removed.
- For deterioration of component parts, the nature of which is to become worn or depleted with use.

Shipping charge:

If the repairs are covered by the warranty, you need to pay for the charge incurred from sending the product to the maintenance point, and SensaSound will pay for the return shipping charge. We provide all support and guidance to make sure the process moves smoothly.



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