



**HYANKA®**  
EXCELLENCE YOU CAN HEAR

## User Manual

### HYANKA Car Subwoofer **SCUTUM SERIES**



**BSM-12**

[www.HYANKA.com](http://www.HYANKA.com)



HYANKA's Complete  
Product Range



Wonderful things  
are in store for you



Scan the QR code to join our  
WhatsApp group for the latest  
updates and exclusive offers. 📱  
We look forward to connecting with  
you!

# BSM-12 Car Subwoofer

## CONTENTS

1.0	INTRODUCTION	01
1.1	PROTECT YOUR EARS	01
2.0	ITEM LISTING	02
3.0	BRAND STORY	03
4.0	BSM-12 PRODUCT SPECIFICATIONS	04
5.0	BSM-12 PRODUCT SIZE	05
5.1	T/S PARAMETERS	05
6.0	INSTALLATION CONSIDERATIONS	06
7.0	CAR SUBWOOFER MOUNTING	07
8.0	DESCRIPTION OF WIRING	08
9.0	TO PURCHASE ADDITIONAL GEAR AND ACCESSORIES	09
9.1	SERVICE AND REPAIR	09
9.2	WARRANTY INFORMATION	09
9.3	CUSTOMER SERVICE AND TECHNICAL SUPPORT	09
10.0	EXPLORE THE COMPLETE SPECTRUM OF EXCELLENCE: DISCOVER OUR FULL RANGE OF STELLAR PRODUCTS!	10

## 1.0 INTRODUCTION

Congratulations on your purchase of the remarkable HYANKA Sagittarius Series BSM-12 Car Subwoofer. This 12-inch subwoofer represents the pinnacle of HYANKA Audio's high-performance automotive audio technology. It's a true powerhouse designed to outperform the competition, boasting cutting-edge innovations that will elevate your car audio experience to new heights. With a dual 2/4-ohm voice coil configuration, it can handle a robust power range of 550/500 Watts MAX.

The Scutum Series isn't just another subwoofer; it's a precision-engineered masterpiece. When you install these speakers in your vehicle, you'll witness a transformation in your music like never before, thanks to their superior performance and attention to detail. HYANKA's Scutum Series is the embodiment of excellence in car audio.

## 1.1 PROTECT YOUR EARS

HYANKA and the Electronic Industries Association's Consumer Electronics

Group want you to get the most enjoyment out of your equipment by playing it at a safe level—a level that lets the sound come through loud and clear without annoying blaring or distortion—and, most importantly, without damaging your sensitive hearing.

Since hearing damage from loud sounds is often undetectable until it is too late, HYANKA and the Electronic Industries Association's Consumer Electronics Group recommend that you avoid prolonged exposure to excessive volume levels.





## 2.0 ITEM LISTING

HYANKA Scutum SERIES BSM-12 Car Subwoofer

Open the packing case and you will find the following items

- ☑ 1 x Car Subwoofer
- ☑ 1 x User Manual
- ☑ 1 x 15mm x 1m Sealing Strip

**CAUTION!** Immediately upon receiving the product, carefully unpack the carton, check the contents to ensure that none of the parts are missing, and all parts are in good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damaged from shipping or the package itself shows signs of mishandling. Save the package and all the packing materials. In the event that the product must be returned to the factory, it is important that the product be returned to the original factory box and packed.

### 3.0 BRAND STORY

Decades of experience in the audio industry have contributed to the excellent quality of our products. Our brand, HYANKA, absorbs and integrates the cooperation experience of hundreds of world-famous audio brands and dozens of car companies and finally establishes the HYNKA professional audio modification system.



1. Focus, research and development, innovation are our constant dedication.



2. Founded more than 20 years ago, HYANKA has a powerful factory, independent research and development team, extraordinary quality, and stands out in the car audio modification market.



3. Production with a meticulous and rigorous attitude to guarantee that each sound set has excellent sound effects.

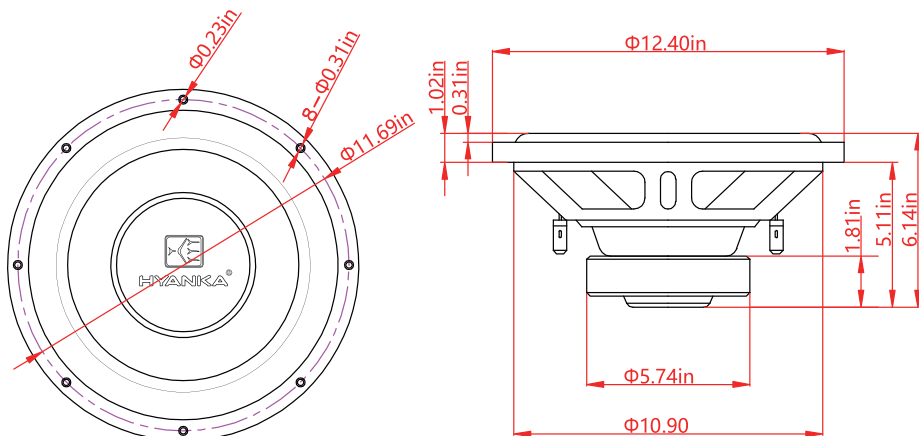


4. Our strong technological team provides free installation guidance so that you can install without concern.

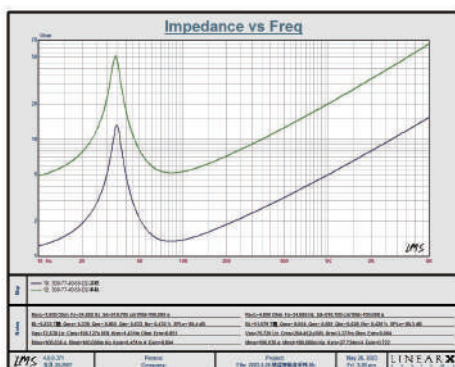
## 4.0 BSM-12 PRODUCT SPECIFICATIONS

Model	BSM-12-2	BSM-12-4	BSC-12-2	BSC-12-4
RMS Power	275 W	250 W	550 W	500 W
MAX Power	550 W	500 W	1100 W	1000 W
Xmax	8MM (0.315 inch)	8MM (0.315 inch)	12MM(0.468 inch)	12MM(0.468 inch)
Magnet	Y30 GradeDouble (two pieces) 140*20	Y30 GradeDouble (two pieces) 140*20	Y30 GradeDouble (two pieces) 156*34	Y30 GradeDouble (two pieces) 156*34
Impedance	Double 2 Ohm	Double 4 Ohm	Double 2 Ohm	Double 4 Ohm
Voice Coil	2" aluminum frame	2" aluminum frame	2.5" black aluminum frame	2.5" black aluminum frame
Sensitivity	88dB	88dB	89dB	89dB
Frequency	35-1000HZ	35-1000HZ	35-1000HZ	35-1000HZ

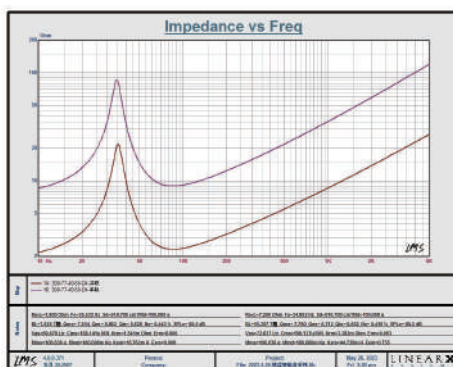
## 5.0 BSM-12 PRODUCT SIZE



## 5.1 T/S PARAMETERS



BSM-12-2



BSM-12-4

## **6.0 INSTALLATION CONSIDERATIONS**

**Read and follow all instructions before attempting to install or use this product.**

1. Keep all magnetic devices such as credit cards and magnetic coded keys a fair distance away from the ferrite (magnet) core of the speaker.
2. Install the speaker system as explained in this manual.
3. Once installed, operate the speaker only within its RMS power rating. Overdriving the speaker will lead to failure.
4. Match the speaker to a suitable output source (amplifier). The amplified output should be slightly higher (ideally 30% higher) than the speaker RMS rating to allow for head-room and to eliminate clipped signals (square waveforms) being produced by the speaker.
5. Ensure that the speaker wires are correctly connected on either side (speaker and amplifier).
6. Clean the speaker using a clean, dry or water damp cloth. Do not clean with abrasive chemicals/cleansing agents.

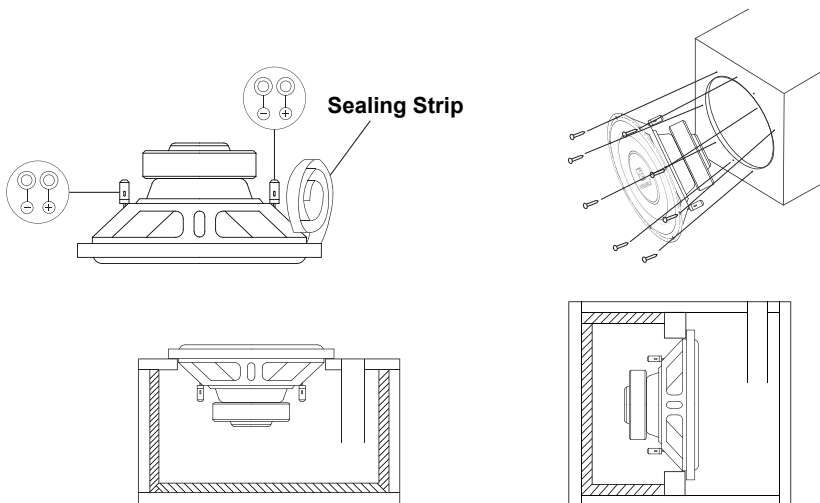
### **Optimal Recommended Wooden Box Specs**

#### **Flexible Placement in Closed or Open Port Box.**

1. 12" Subwoofer Closed box: Volume 45L, Freq. cutoff at 45HZ
2. 12" Subwoofer Open box: Volume 50L, Freq. cutoff at 35HZ



## 7.0 CAR SUBWOOFER MOUNTING



### Installation:

The PERSEUS Series car subwoofer can be mounted in a separate wooden enclosure.

Ensure that the depth of the intended installation area is adequate and that the speaker is not obstructed once installed.

#### 1. Separate Wooden Enclosure for Installation.

(1) Turn off the vehicle's ignition in order to avoid unwanted audible spikes once the speaker is connected to the output source.

(2) Connect the internal speaker wire of the enclosure from the connector panel to the speaker, paying attention to the polarity.

(3) Secure the speaker to the enclosure using 8 suitable screws/securing hardware.

(4) Connect the speaker wire from the enclosure connector panel to the output source (amplifier), paying attention to the polarity.

#### 2. Connect the speaker cable to the amplifier output

Make sure the polarity is correct when connecting the speaker cable to the amplifier output. Incorrect connections could lead to phasing problems or even damage to audio components (amplifier and speaker). The positive wire (normally marked with a solid line) must be used to connect the positive terminal of the speaker with the demarcated positive output connection of the output source (amplifier).

NOTE: When connecting a speaker to a component amplifier, pay particular attention to whether the amplifier is configured in bridge mode. If this is your intended configuration, make sure that the connection made is correct for this mode.

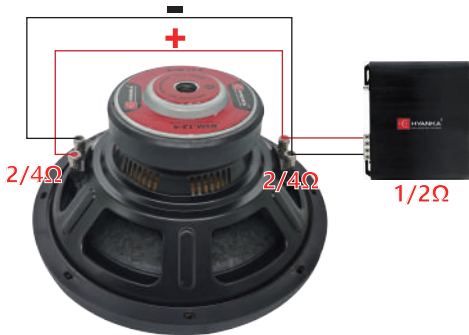
## 8.0 DESCRIPTION OF WIRING

With a power output 2 times higher than the average subwoofer and a variety of wiring methods, our subwoofer can be used in homes and cars.

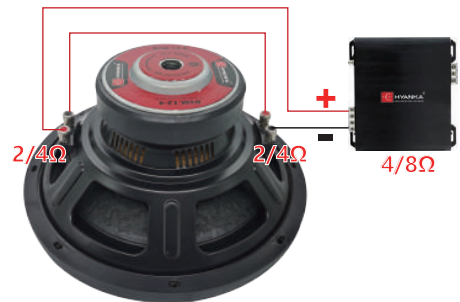
### Three ways of connecting the cables.



1. A single set of voice coil speakers has a resistance of  $2/4$  ohms and can be bridged with a high-power four-way power amplifier.



2. The subwoofer impedance of multiple connections is  $1/2$  ohm, 2 voice coils in parallel i.e. the power of the subwoofer is increased by 1.5 times compared to a single connected group of voice coils, a Class D single digital power amplifier is required to drive it, this connection gives the most power and the best results.



3. The impedance of the subwoofer series-wound connection is  $4/8$  ohm. This connection has the lowest power of the three and is more suitable for use as a household speaker with a household power amplifier, or with a vehicle four-way power amplifier.

## 9.0 TO PURCHASE ADDITIONAL GEAR AND ACCESSORIES

To purchase HYANKA other products , please contact us at "sales@hyaudio.com.cn" Our other products list please visit: [www.hyanka.com](http://www.hyanka.com) (Facebook/YouTube/Tik Tok: HYANKA.HYANKA) .You can also contact us directly through Amazon. Then we will help you find what you need.

## 9.1 SERVICE AND REPAIR

For spare parts, service and maintenance, please contact us at "sales@hyaudio.com.cn" to purchase additional replacement parts or for other maintenance related matters. The company does not issue service manuals to users, and users are advised not to attempt any self-maintenance. Because doing so would void all warranties. If you have any question, also can visit our website to find the answers: [www.hyanka.com](http://www.hyanka.com). (Facebook/YouTube/Tik Tok: HYANKA.HYANKA)

## 9.2 WARRANTY INFORMATION

HYANKA is committed to providing the best warranty service for each product. From the date of original purchase, HYANKA provides a warranty of six months for any material or workmanship problems arising out of strict compliance with the instructions. HYANKA may repair the product within this warranty period. Please be sure to properly keep the "proof" of purchase products, so as to obtain warranty service. Products without purchase certificate will not be accepted for return, and warranty service. The warranty service is limited to problems arising from normal use. Users should strictly follow the instructions for correct use. Any wanton damage or unauthorized maintenance of the machine, accident, wrong use, human negligence, etc., will not be accepted by the warranty scope. In addition, the guaranteed repair is only valid for purchase in the Brand's Amazon store or brand website store. If you have other questions, please visit: [www.hyanka.com](http://www.hyanka.com).

## 9.3 CUSTOMER SERVICE AND TECHNICAL SUPPORT

You are welcome to visit our website at [www.hyanka.com](http://www.hyanka.com). (Facebook/YouTube/Tik Tok: HYANKA.HYANKA) From this website, you can get answers to frequently asked questions, technical guidance, return instructions and other helpful information. We do our best to respond to your inquiry within one business day.

(Note: We focus on customer experience and we are continuously upgrading our products. Please contact us on our website ([www.hyanka.com](http://www.hyanka.com)) and leave your comments about your previous purchases of our brand. After the upgrade, we can send you a current one for free. )

**[www.HYANKA.com](http://www.HYANKA.com)**



HYANKA's Complete  
Product Range



Wonderful things  
are in store for you

## 10.0 EXPLORE THE COMPLETE SPECTRUM OF EXCELLENCE: DISCOVER OUR FULL RANGE OF STELLAR PRODUCTS!

### ● Car Coaxial Speakers

Size:

6.5 Car Speakers

6x9 Car Speakers



### ● 6.5 Component Car Speakers



### ● 8/10/12/15 Inch Car Subwoofer

Size:

SODA-08ASW

SODA-10ASW

BSF-10-2

BSF-10-4

BSF-12-2

BSF-12-4

BSF-15-2

BSF-15-4

BSC-12-2

BSC-12-4

BSM-12-2

BSM-12-4



### ● Car Tweeters

Size:

CTW-01

CTW-02



### ● Marine Stereo System

6.5 Marine Speakers



### ● 12"/15" Professional PA Speaker System

Size:

12"

15



### ● Car Amplifier

4-channel bridgeable Class A/B amplifier



Access Now at [HYANKA.COM](https://www.HYANKA.COM) for  
Exclusive, Substantial Discounts!

[www.HYANKA.com](https://www.HYANKA.com)



HYANKA's Complete  
Product Range



Wonderful things  
are in store for you



Scan the QR code to join our  
WhatsApp group for the latest  
updates and exclusive offers. 📱  
We look forward to connecting with  
you!