

# Conquistar Series Ribbonspeakers



CONQUISTAR

Hybrid Ribbon speakers

Thank you for choosing Conquistar® Series 2 , Open Dipole Ribbon speakers.  
As with any fine product, a few basic precautions will ensure that the speakers perform to their optimum capacity

## MANUEL FOR FLOORSTAND WITH RAAL DIPOLE RIBBON UNIT

Every speaker comes in a wooden box. Remove the screws from the market size and open the wooden box. Remove speaker from shipping box carefully. Attention : please read ; “DO NOT “ on last page from this manual - Every box carries a SHOCKWATCH protection - Open boxes always horizontal - remove the special pallets and remove screws to open wooden boxes.

A ribbon tweeter is a delicate foil membrane that is attached at the ends only. Thus, the sides of the ribbons are floating. During transport, the ribbon element is covered in order to prevent potentially strong air currents from damaging or distorting the ribbons. REMOVE THE PROTECTIVE COVERING ON THE TWEETER SLOWLY BY PULLING IT UP AND OFF THE RIBBON UNIT TO AVOID CREATING A VACUUM.

**Rapid changes in air pressure MUST be avoided. Any damages caused by improper user handling during unpacking/setup are not covered by warranty.**  
**Mid-High unit : RAAL Dipole true ribbon with AM core**

Keeping all the technological (read : audible) advantages, now it became the thinnest Dipole True Ribbon in the industry. This is an essential feature as there aren't any deep slots or short horns created by bulky magnets in the vicinity of the ribbon element, to increase it's air loading mass and compromise linearity, hence, acceleration and linearity are preserved.

Totally symmetrical front and back openings provide identical ribbon loading, identical response and identical dispersion patterns front and back. There lies the greatest advantage, unheard of in any dipole speaker design to date : once the symmetry has been achieved by it's physical design, using RAAL's proprietary foam deflector pads, ***you can adjust for different and independent dispersion patterns front and back.***

This will allow you to create amazing depth of stereo image, depending on which pattern in the front and which pattern in the back is best for your listening room acoustics.

Our team has developed a rotating ribbon driver with a changeable horizontal inclination degree between 25° & 0° for L(eft) & R(ight) direction. Zero point = equilateral with the front of the speaker

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

Manufactory OpenDipoleRibbon speakers

Acoustic treatment, for your listening enjoyment you can experience with this tools :

1/the magnetic patterns (2 backside - 2 frontside)

2/rotating ribbonunit with 2 adjustable wingnuts. Don't REMOVE this wingnuts !! They protect the ribbon unit to come lose from the cabinet - when you want to turn the ribbonunit , loose them a littlebit and turn the underlying nuts also to the left. Then turn the ribbonunit to the choosen position and tightened the nuts and the wingnuts again like they come from the factory. In most cases it isn't necessary to turn the ribbon but you have the possibility to finetune even in poor acoustic conditions !

For the first time, you don't need electronics to adjust front and back levels. It's all very easy and very natural now.

TingshaAudio has also choosen for AM core in the Ribbon-transformator :

The difference between Amorphous metal and Ferrite transformer cores is that AM has narrower hysteresis, so it needs even less energy to get magnetized around zero point.

The audible difference is that it shows better low-level detail and it sounds a little smoother on top. In most systems, it is hard to hear the difference, but in systems with good resolution, it is plainly audible and well worth the money.

**2 EAD drivers with double voice coil use as bass drivers with minimum Qt-resonance frequency from the drivers- allowing short and powerfull movement from aluminium conus.**

For acoustical bass treatment experiment with closed or open bass reflex port. Start with listening open bass ports.

**Save the original packing material for future use !**

The speakers may be transported to another location from time to time, and it is strongly recommended that they be packed in their original wooden boxes to ensure a safe relocation.

It is highly unlikely that the speakers ever will need service. Should the need occur, returning the speakers for service in their original wooden boxes, together with all of the original packing material in its proper position is a must, in order to keep warranty valid.

**Lifetime warranty for the true ribbon RAAL unit and  
Extended warranty to 5 years for other components,  
if you send us copy from you purchase invoice only accept from first owner.**

Your speakers come with a production/chassis number. Example :

CS1-NT-2014-001-Z

CS1 : Conquistar Series 1 (=monitor)

CS2 : Conquistar Series 2 (=floorstand)

NT : Natural Trend - RT : Retro Trend - CT : Colour Trend - PT : Personal Trend

2014 : Construction year

001 : number according production

Z : Zensati intern cables (for all models option except for Personal Trend - not available for Retro Trend.)

## Installation

Do not place speakers in front of air conditioning or heating elements or in a potential high-wind area. Air currents such as those from an air conditioner, portable fan-driven heater or an open window can distort the structure of the ribbons.

***Never use a vacuum cleaner near the speakers in order to remove dust.***

***Maintain a constant temperature and humidity in the room where the speakers are installed.***

Recommended temperature be kept between 15-30 degrees Celsius and humidity between 25%-50%

***Distance from wall, etc.***

It is recommended to place the speakers on with the ribbon tweeters at or near ear level/ height, no closer to the wall behind than 50 centimetres and preferably 100 centimeters. Turning the speakers 5 degrees in towards the listener will reduce wall-related reflections and enhance listening pleasure. You can also in towards with the rotation of the ribbonunit.

***Do not use any kind of batteries for checking polarity.***

The polarity of the speakers 'absolute polarity, (the "plus" and "minus") is set at the factory. Any attempts to check speaker polarity using a DC source such as a battery, might cause damages to the speakers and must be avoided.

## Play

***The extern X-over allows you to use bi-wired connections.***

***Use a loudspeakercable for HIGH and a loudspeakercable for LOW***

***If you use only one cable to your amp make a bridge between HIGH & LOW. MAKE SURE YOU CONNECT + on the + and - with - !!***

***DO NOT ! : Don't remove the speakers using the ribbon-unit as a point to carry away the speakers. ALWAYS take the speakers with the cabinet if you want to move the speakers !***

Sound levels etc.

Even if the speakers can handle a surprising amount of energy, it is recommended not to put excessive stress, neither on the woofer voice coil, nor on the ribbons.

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Manufactory OpenDipoleRibbon speakers

Conquistar Series are designed for optimum sound quality rather than high sound levels.

In general, a high power amp is safer to use (quality of power supply), due to reduced risk for amplifier clipping.

Every quality amp is allowed as long as it is not going into clipping mode.

Conquistar Series are “High End” quality speakers and have the property to give a transparent and crystal clear natural sound. To achieve this it may be possible to experiment with other elements in the total set up from your sound system.

You are always welcome to share your experiences with us.

Our demo room can be visited by appointment without obligation.

Use our “ Contact “ page

Feel free to check your personal certification as first owner.

Just let us know your identification with copy of your purchase.