

The C2 is an amazing center speaker that will surprise you with its high performances.

Bigger than the C1, the C2 is equipped with the same drivers as the A2 floorstander.

In a high end AV system, the C2 will work with ease, offering an open and warm sound for crystal clear voices, and sufficient energy to sustain even the most difficult soundtracks.



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## The ACT line

With the ACT line, BC Acoustique wanted to create speakers with a pure and sharp design using advanced technology.

The ACT speakers are the result of several years of research and development. Looking at their fine design, it is hard to realize the efforts that went in the making of the speakers and the level of technology that can be found inside. The result is quite an achievement.

Three specific technical aspects were particularly studied:

**Internal resonance modes**  
**Phasing**  
**Distortion level**

These three aspects are often weak points on speakers found on the market, and this for a simple reason: the measuring devices used in the world of electroacoustic do not offer the necessary precision to clearly show some important phenomenon for which the human ear is highly receptive.

With this in mind, BC Acoustique decided to develop its own set of measurement devices and to adapt its manufacturing process and testing facilities to these innovative techniques. These devices give our engineers a higher precision in their work, making this a significant progress in the field of electroacoustic.

These technical evolutions make the ACT line an accomplishment with remarkable sound qualities. No place was left for luck during research, development and making of the ACT.

But we always kept in mind that the final goal of all these evolutions was to make sure that the listener would forget all the technical aspects and enjoy the best of what music and sound can offer. This is BC Acoustique's philosophy.



## The Tweeter

The C2 uses 3 drivers. For the treble BC Acoustique chose a BC100 horn tweeter. A common model to all ACT speakers, this tweeter is the result of an important collaboration with Fostex, one of the most prestigious high end drivers' manufacturer.

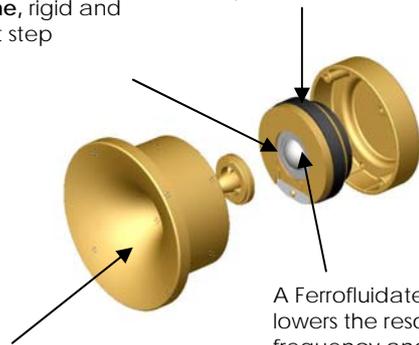
Compared to a classic dome tweeter, the BC100 brings a remarkable definition of higher frequencies, an incredible clarity, efficiency and good transience.

Its frequency response chart is regular up to 50 kHz for an ideal transcription of high definition sources (SACD or DVD-Audio) without the inconveniences that can be found with super tweeters.

The BC100 can also reproduce all the dynamic that you can find in music or movies without any loss or distortion.

Titanium **Dome**, rigid and light for a fast step response.

A large **double magnet** gives the motor power and speed.



A Ferrofluidated **moving coil** lowers the resonance frequency and increases power handling.

Aluminium **horn** with a profile developed to improve frequency response linearity, ease the phase coherency and limit directivity.

The use of a **Polypropylene diaphragm** with variable thickness makes an excellent compromise between lightness and rigidity. Damping has been particularly studied to guarantee the neutrality of sound.

**Spider** was specifically studied to offer a perfectly symmetrical movement.

Rigid **basket** with a very open rear side to reduce the disturbing primary reflections.

**Large magnet** for more power and sensitivity.

**Moving coil** naturally ventilated and cooled. It can reach high acoustic pressure with very low distortion rate.

**Cone profile and suspension** specifically designed for a steady frequency response with no accidents. This allows the use of slow slope crossover for higher phase coherence

## The bass-midrange

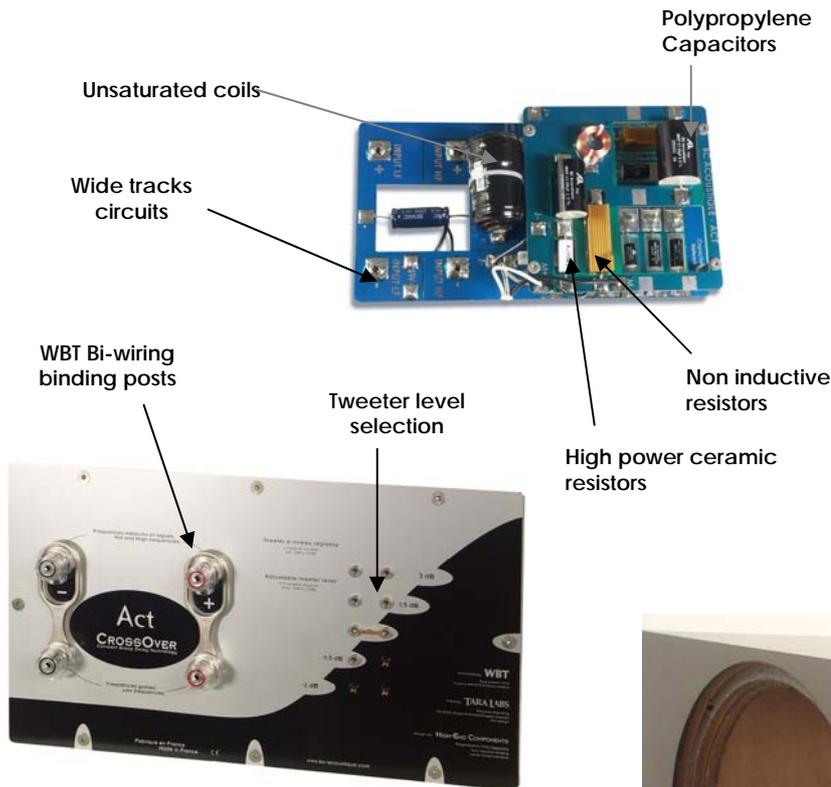
The C2 is equipped with two identical 18cm drivers, similar to those used in the A2 floorstanding speaker. They were conceived in cooperation by BC Acoustique and the renown Norwegian drivers manufacturer SEAS.

The crossover for each is slightly different to get a particularly steady frequency response. The midrange and low midrange were optimized to obtain the best possible rendition of voices.

When listening, the sound is warm and rich with details. The impressive dynamic seems limitless. The C2 never shows any sign of weakness.

Knowing that 60% of the information of a movie soundtrack come from the center speaker, it is easy to understand why it is so important to choose a specific high end speaker. The C2 will offer you the opportunity to get the most realistic sound when watching a movie or a concert.





## The Crossover

The crossover of the C2 was designed with components selected for their top quality. The state of the art connectors come from WBT renowned for their mechanical and electrical performances. Internal cables all come from Tara Labs, a leader in cable technology.

Even if its architecture is complex, the crossover is using only a fairly slow first order slope of 6dB/Octave. This solution preserves the phase of the drivers and the coherence of sound.

To make the ACT line easy to adapt to a room, the use of a number of specific resistors allow the auditor to change the level of the tweeter. 5 positions are available to increase or reduce the tweeter level by up to 3dB. It will be simpler to adapt the speakers to the listening conditions of the room and to the other components of the HiFi/AV system.

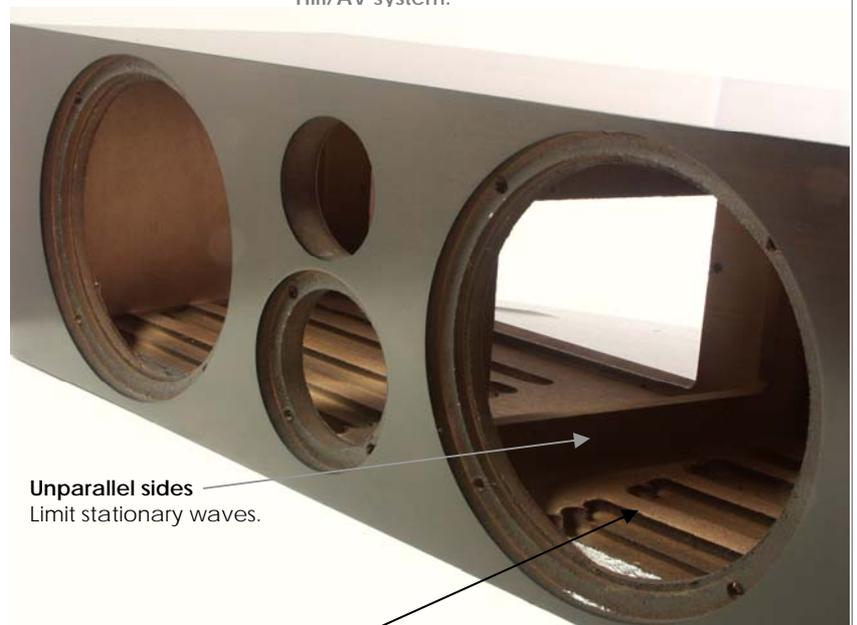
## The Woodwork

The cabinet of the C2 is made out of high density MDF. All wood panels are veneered on both sides to avoid any risk of bending of the wood on the long term.

The C2 uses a bass reflex solution with the vent located on the front panel.

The use of diffusers and unparallel sides on the internal panels eliminates all trace of coloration and stationary waves.

No screw is seen from the outside on the front panel as the drivers are held from the inside. The outer aluminium ring allows a very tight and homogenous fixing of the basket. It facilitates the flow of unwanted vibrations and its curved profile limits the creation of reflections on the outer rim of the basket.



They break the sound waves to avoid any echoing inside the cabinet. These do not affect all micro information.



### Quality Control

The C2s are carefully hand made in BC Acoustique's factory. All drivers are tested, selected, ran in and paired..

Crossover is set precisely to compensate potential variations in one or more components. Each crossover is thoroughly tested and measured. It is then compared to the standard measurements.

All these information are recorded and stored in our data base to guarantee the quality of technical service for each speaker that we produce.

### Those small details...

The front grilles are made with removable fabric that can be changed. A completely invisible magnetic system of fixing uses powerful neodyme magnets inserted inside the cabinet and the grille. Thus the fitting is always perfect. The use of magnets has absolutely no effect on sound.

On the contrary this solution does not use the usual plastic pins that create problems of reflections and disturbances on the frequency response.



### Finish and Accessories

The C2 are available with 4 different finish : Wengé, Amarante, Maple, Cherry (from left to right).

They are delivered with a box of accessories including handling gloves, a soft rag, a bottle of cleaning lotion, a test CD that will allow you to set your installation and improve the run in of your speakers.

The C2 as well as all BC Acoustique's speakers have a lifetime warranty (see conditions).

#### Drivers

<b>Tweeter</b>	Horn BC100
<b>Woofers</b>	18 cm polypropylene
<b>Midrange</b>	18 cm polypropylene
<b>Terminals</b>	WBT - Bi-wiring
<b>Crossover</b>	6/6 dB at 3,5kHz 6/6 dB at 600Hz

#### Performances

<b>Frequency Range (+/-3dB)</b>	50Hz - 50kHz
<b>Distorsion</b>	<0,8%
<b>Maximum long term power</b>	120 Watts
<b>Maximum short term power</b>	250 Watts
<b>Sensitivity (2,83v/1m)</b>	91 dB
<b>Nominal Impedance</b>	4 Ohms
<b>Minimum Impedance</b>	3,6 Ohms

#### Specifications

<b>Type</b>	Center speaker Bass Reflex
<b>Dimensions (HxWxD)</b>	21 x 62 x 26 cm
<b>Weight</b>	16 Kg
<b>Cabinet</b>	MDF HD 25mm
<b>Diffusors</b>	YES
<b>Shielded</b>	YES



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