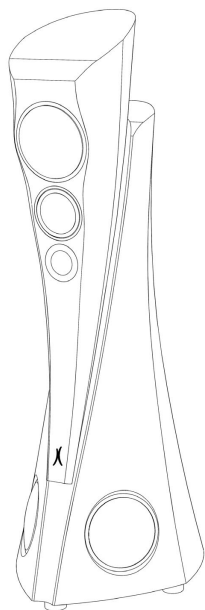


estelon

*from Alfred + Partners*



*Designed  
by Alfred Vassilkov*

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Model Estelon Extreme

Serial Number

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Your ESTELON loudspeakers have passed our quality control:

– Technical test passed.

Marek Rajatalu  
Production Manager  
Estelon

– Listening test passed.

Alfred Vassilkov  
Founder and Chief Designer  
Estelon

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# 1. INTRODUCTION

## **Our Story**

There can be few world-class firms that have been founded at the breakfast table, but Estelon – from Tallinn, Estonia – is certainly one of them. The high-end audio brand traces its origins back many decades when a young boy obsessed with music, began to take apart radios and adjust them to improve the sound quality.

Before Estelon, Alfred had been designing speakers for other companies for over 25 years and spent many years researching opportunities to achieve his ambition.

He always sought perfection and overcame challenges: growing up in Soviet era, when resources were limited, he dismantled radios to rebuild and improve them.

He took his interest to university, studying electro-acoustics in St Petersburg. These experiences enabled Alfred to develop technologies and find materials with which to construct unique and innovative products. These were combined with inspiration from nature – particularly from the lush and expansive forest landscapes of Estonia – to create the perfect balance between engineering and design.

The result was Estelon, one of the world's most luxurious speaker brands. It derives aesthetic and acoustic excellence through the merger of ingenious creativity and cutting-edge science. Each decision – from engineering techniques to materials and components used in the manufacturing process – is made with the perfect harmony of the speakers as a whole in mind.



*Alfred Vassilkov, the Designer and Founder of Estelon*

## **Estelon Extreme**

By elevating the act of listening to new heights, Estelon delivers an audio experience like no other. At the forefront of this sound revolution is our flagship model, Estelon Extreme. The system comprises an upper and a lower module, with the former fully adjustable to best suit a room's acoustic attributes and the listener's personal preferences.

With its soaring, handcrafted cabinet and sleek two-tone finish, the speaker system is a statement piece, but one that doesn't need to shout about its achievements. Indeed, the Extreme has been designed to perform a smart disappearing act when in use: instead of having your ear drawn to the speaker, the listener is immersed in sound, experiencing music afresh in all of its nuanced splendor.

## **Engineering Concept**

Each element and its characteristics play a crucial role in delivering the purest sounds imaginable. All Estelon products are built from the inside out. That means that the shape is the result of decades of engineering and experiences on how to create the best conditions for music reproduction. Taking this into account there are not many materials in the world which can adhere to all of the necessary conditions.

## **Cabinet Materials and Finish**

Our Extreme model cabinets are built using a proprietary marble based composite material. This allows to create the perfect form and shape of the speaker. The specific shape and materials eliminate any extra internal resonances and diffractions and therefore the sound is pure and natural without coloration.

The finishing techniques of all our speakers come from the automotive industry, which makes the coating very durable. The finishing is handcrafted and consists of up to 12 layers and is then carefully hand polished. The Estelon Extreme is offered in a choice of Gold, Copper, Dark Silver and Black Lava liquid gloss in combination with Black Matte.

## 2. SPECIFICATIONS

<b>Woofers:</b>	2x 250 mm Aluminium dome Accuton (custom design)
<b>Mid Woofer:</b>	250 mm Aluminium dome Accuton (custom design)
<b>Midrange:</b>	173 mm Ceramic inverted dome Accuton (custom design)
<b>Tweeter:</b>	30 mm Diamond inverted dome Accuton (custom design)
<b>Internal Wiring:</b>	Kubala-Sosna
<b>Frequency Response:</b>	25 - 45 000 Hz
<b>Power Rating:</b>	500 W
<b>Min Amplifier Power:</b>	20 W
<b>Nominal Impedance:</b>	4 Ohm
<b>Sensitivity:</b>	91 dB/2.83 V
<b>Height:</b>	5 adjustable heights 1770 - 2070 mm
<b>Width:</b>	670 mm
<b>Depth:</b>	800 mm
<b>Weight (Upper Module):</b>	75 kg
<b>Weight (Lower Module):</b>	175 kg
<b>Net Weight Total:</b>	250 kg per loudspeaker

### **3. UNPACKING AND SET-UP**

Your Estelon Extreme loudspeakers come in four flight cases and a box with set-up frame. We strongly recommend keeping the flight cases for possible future use or transport.

Bring the four flight cases for unpacking as close as possible to the speakers positioning point. Due to the substantial weight and slippery surface of the loudspeakers we suggest that three (3) persons assist in the unpacking and positioning of them for listening.

#### **Contents of the four (4) flight cases:**

- Pair of loudspeakers:
  - 2 Lower Modules
  - 2 Upper Modules
- 1 Controller box with connecting cable and power cord; remote control
- 1 Accessories box:
  - 1 Key for tweeter adjustment
  - 1 Screwdriver
  - 1 User's manual
  - 3 Pairs of gloves and 1 Polishing cloth

#### **Contents of the box:**

- 1 Set-up frame
- Accessories for the set-up frame
- 2 Carts



## Unpacking and set-up

For unpacking and setting up the loudspeaker please watch a demo video of the correct procedures from the Downloads – User Manuals section on the Estelon homepage.

*[www.estelon.com/downloads/#manuals/extreme](http://www.estelon.com/downloads/#manuals/extreme)*

Please keep all the removed parts for future re-assembling and/or transportation. Keep the remote control out of reach of children!

## Recommended positioning point

The positioning of the speakers in the room must be symmetrical for achieving a balanced sound stage – this is very important in a narrow room. Expect the distance between the speakers to be approximately 3 – 5 m, depending on the size of the room and its reverberation characteristics.

When positioning the speakers in your room, if possible, it is better to allow for “free” space around the speakers so as to assist in minimizing sound reflections from walls, furniture etc. This will help in achieving correct tonality, realistic imaging, focus and dynamics. The recommended minimum distance between the speaker and the nearest reflection point is 1.2 m.

The distance between the back wall and the speaker should not be less than 1 m, the distance from the speakers’ front to the back and side walls must not be too similar.

Listening point: the best listening height is approx. 1 m, while the distance between the listener and the speakers should be similar or longer to the distance between the two speakers.

The recommended speaker’s direction is usually 3-7° towards the listening position, depending on the listening room specifics.

**WARNING! When played at excessive volume, you stand the risk of doing damage to the drivers.**

## Wiring

When connecting the speaker to the amplifier please make sure that the amplifier is in an off position.

Connect the speaker cable to the pole terminal on the back of the speaker: speaker terminal „+“ with the amplifier terminal „+“ and „-“ with „-“. For single wiring we recommend connecting cables to upper binding posts (please keep the wire jumpers connected between upper and lower binding posts).

For signal flow, please follow the direction marked on the cable or in the cable manufacturer's instruction. Typically, the signal flow will be in the same direction as the labeling / writing on the cable.

Estelon Extreme can be also bi-amped or bi-wired at your choice. In this case remove wire jumpers to be able to use all connectors. Connect one cable to upper binding posts and another cable to lower binding posts: speaker terminal „+“ with the amplifier terminal „+“ and „-“ with „-“.

## 4. PRODUCT CARE

The multicoated finishes applied to Estelon speakers are considered to be amongst the most advanced automotive finishes available. They are extremely strong and durable. In order to assist you in maintaining their stunning appearance, your Estelon loudspeakers come supplied, from the factory, with special cleaning / polishing cloths. Please take note - only dry cleaning is allowed - do not wash the speakers.

When the nature of a smudge or spot so necessitates, a soft moist cloth may be used to gently remove smudges prior to a final finishing with the special cloths which accompany the speakers.

For the Liquid Gloss finish, please use only the polishing cloth included in the flight case. Be careful not to apply the polish to the loudspeaker drivers. The use of other materials can damage, scratch or destroy the finish.

More detailed information regarding the polishing clothes and information for obtaining additional product:

### **For all finishes:**

3M Perfect-it™ III High Performance Polishing Cloth

Or other 3M Microfiber cloths

If needed, use it with Würth Active Windshield Cleaner\* I Art. No. 0890 25

For additional information and guidance regarding cleaning / polishing materials, please contact your dealer or distributor.

## **5. TECHNICAL SERVICES**

### **Estelon Five Year Limited Warranty Terms and Conditions**

**1. Limited Warranty** - All Estelon products purchased from authorized Estelon dealers are covered by a limited 5-year non-transferrable warranty. This warranty includes all parts and labour charges as well as return-shipping charges (product owner is responsible for all shipping and insurance charges one-way to the Estelon repair facility).

Customers should consult with their original Estelon dealer or distributor for possible alternate repair instructions prior to contacting the Estelon factory. Other Estelon dealers or distributors may refuse from assisting the Customer under the limited warranty but under any and all circumstances customers are welcome to contact our sales department, listed on our web site [www.estelon.com](http://www.estelon.com) for service assistance.

This limited warranty is valid only in the country where the product was originally purchased. If the repair request that is covered under this warranty comes from another country then the Manufacturer may request the Customer to compensate to the Manufacturer additional costs arising from providing this limited warranty in another country than the country of original purchase.

This limited warranty shall not affect the statutory rights of the Customer.

**2. Limited to Original Purchaser** - This warranty is for the sole benefit of the original purchaser of the covered product, and may not be transferred to a subsequent purchaser of the product.

**3. Conditions and Limitations** - This warranty is subject to certain conditions and limitations, as follows. This warranty is void and inapplicable if the product has not been used in accordance with the instructions found elsewhere in the owner's manual, or if it has been

misused or abused, damaged by accident or neglect, or in transport once in possession of the purchaser. The warranty is also deemed void if the product has been repaired, modified, or tampered with by anyone other than Estelon or its specifically authorized agents. Please note – if the fasteners to the cover of the crossover area, those covered with multi coloured specialty epoxy seal, have been tampered with or the epoxy removed – the warranty will considered to be void.

This warranty does not cover defects due to accidents or similar causes arising after the risk for the product has passed to Customer, or normal deterioration, wear and tear.

**4. Remedy** - If this product contains a materials, manufacturing, or workmanship defect that cannot be repaired at the dealership where the product was purchased, it must be packed in original packaging and returned to Estelon via an insured freight, at the owner's expense. If replacement packaging materials are required, they may be purchased from the factory at a charge. Returned products must be accompanied by a written description of the defect, and a return authorization number (available from the factory via phone or email).

Upon receipt of defective product, Estelon agrees to repair the product without charge for parts or labour. The product will then be returned via prepaid, insured freight, with carrier at the sole determination of Estelon This constitutes the purchasers sole remedy.

**5. Design Changes** - Estelon reserves the right to modify its products or change specifications at any time without obligation or liability to previous purchasers.

**6. Miscellaneous** - Any implied warranties relating to the above product shall be limited to the duration of this warranty. This warranty does not extend to any incidental or consequential costs or damages to the purchaser. This warranty gives you specific legal rights. You may also have other rights which vary from country to country.

## Instructions for Obtaining Repair Service

1. Complete the Return Authorization Request Form – contact [sales@estelon.com](mailto:sales@estelon.com) to obtain the form and wait for approval from Estelon.
2. Crate and / or package the product in its ORIGINAL FLIGHT CASE CONTAINERS ONLY, according to the instructions included in the return e-mail, and ship the product to the shipping address included in the e-mail. The owner is responsible for paying the shipping and insurance charges (Estelon will cover return shipping and insurance charges on warranty repairs).
4. In the case of non-warranty repairs, Estelon will physically inspect the product and contact the customer for repair approval. Upon approval and completion of repair, the product owner will be informed of the final charges (including return shipping). Payment may be made by bank / wire transfer prior to final shipment). Payments not received within 30 days of initial contact may incur storage fees.



We strongly recommend that all product repairs should be conducted through the Estelon factory or an authorized Estelon repair facility. Estelon products are designed and manufactured to the highest tolerances with numerous hand-picked components; for this reason, we **HIGHLY RECOMMEND** that components not be serviced by non-authorized repair facilities. Estelon values its loyal customers and will make every attempt to return repaired products to their original factory specifications. Customers should consult with their original Estelon dealer or distributor for possible alternate repair instructions prior to contacting the Estelon factory. BUT under any and all circumstances customers are welcome to contact our sales department, as listed on our web site [www.estelon.com](http://www.estelon.com) , for service assistance. All non-warranty repairs are warranted for one year from the date of return shipment.



*Have we answered all your questions?  
If not, please send us an email with your questions to*

*sales@estelon.com*

*www.estelon.com*

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