


# *Signature* by TRIANGLE

THE ART OF SOUND WITH A FRENCH TOUCH



 Made in France



## MANUFACTURED IN FRANCE

### TRIANGLE'S BET ON QUALITY

TRIANGLE invites you to discover a world of luxury, ingenuity and excellence based in Soissons, north of Paris. TRIANGLE has been designing, creating and assembling high-quality loudspeakers for more than 35 years. TRIANGLE strives to obtain the highest possible results and provide music lovers with no compromise sound reproduction, while conveying the true emotion and beauty of music.

With the objective of producing top quality speakers and employing the expertise and the experience of its local teams, TRIANGLE has relocated the manufacturing process back to France.

«The entire process, from conception to production, has been completely revisited, with the objective of combining technology and French know how to produce the perfect

sound.» (Marc Le Bihan, CEO)

TRIANGLE is dedicated to delivering a transparent, involving and detailed sound. The restitution of 'space' is equally important when it comes to the complete listening experience.

To achieve this, each vibrating string and every single beat must be perfectly reproduced providing unequalled transparency.



## OLIVIER DECELLE

### SHAREHOLDER & MOST COMMITTED ENTHUSIAST

#### 1980. TRIANGLE'S FIRST CLIENT

An avid hi-fi fan, at the age of 23 years old, Olivier Decelle decided to open a Hi-Fi store on rue Saint Jacques, Paris. He became one of TRIANGLE's very first retailers by selling the first 1180' speaker.

#### 1995. FINANCIAL AND ORGANISATIONAL SUPPORT

Dedicated to the brand, he decided to become a minority shareholder of TRIANGLE. The company was completely reorganized and reinforced its position as a leader in the French market.

#### 2006. A NEW BEGINNING

TRIANGLE's original founder, Renaud de Vergnettes, decided to part ways with the company and Olivier Decelle took over the business. Together with Marc Le Bihan, they began modernizing the company around the company's core values, sound and status.

Made in France, the success of the Magellan range has reinforced our objective of manufacturing top quality products in Soissons.

MARC LE BIHAN, CEO of TRIANGLE



*Signature*  
ALPHA

Available in three finishes :



Piano lacquer Mahogany



Piano lacquer White



Piano lacquer Black



Spec (Single point energy conductor) is a brushed steel point. Similar to the design of a cello, it evacuates part of the mechanical energy towards the floor, thus improving sound quality. Cabinet vibration is kept to a minimum and has little effect on sound reproduction. Again, TRIANGLE's attention to such small details give their speakers a distinct and unique advantage.

## LUXURY WOODWORK

### PIANO LACQUERS AND RARE WOOD

This is a multi-layered artisanal manufacturing process. Many hours of painting and polishing are required to obtain an object of pure pleasure. The SIGNATURE cabinets are made from seven 3mm layers of high-density fiberboards, molded by a press to achieve an overall thickness of 21mm. This high-density cabinet helps to considerably reduce the overall vibration of the speaker.

After three weeks of intense work, the wood becomes both supple and very resistant. The front panel is reinforced to obtain a thickness of 25mm. The top of the cabinet is beveled at an angle of 5° to round off the edges and better reflect the light. This level of attention to the finest detail is the key to a high quality product.

Seven to ten coats of paint are added during production of the cabinets to achieve the luxurious "piano lacquer" finish. The cabinets are carefully polished each time to remove any flaws before adding each new layer of paint. All products from the SIGNATURE range are available in 3 finishes: A mahogany varnish finish, a black or a white lacquered piano finish.

## 35 YEARS OF R&D

### ACOUSTIC EXPERTISE

TRIANGLE continuously invests in the latest technology to innovate and improve its acoustic expertise. A Klippel system is used to conceive and simulate the loudspeakers. Modern prototyping tools, 3D printers, the latest CAD software, as well as MLSSA and CLIO measuring systems, enable the company to put theory into practice. Multiple types of tests help to define the best-adapted shapes and most suitable material to use.

### 35 YEARS OF INNOVATION

Over the years, TRIANGLE has developed and patented innovations, constantly improving the mechanics and vibration of their loudspeakers. It was the first company in the history of hi-fi to use a pod-mounted tweeter when it designed the CX2 back in 1981 – a feature which is now commonplace in loudspeaker design. The feature guarantees a balanced control of resonance from the front of the cabinet and diffraction caused by changes in the cabinet's shape. Other unique technologies, such as the TWIN VENT and the SPEC system, play an important role in making TRIANGLE's speakers unique.



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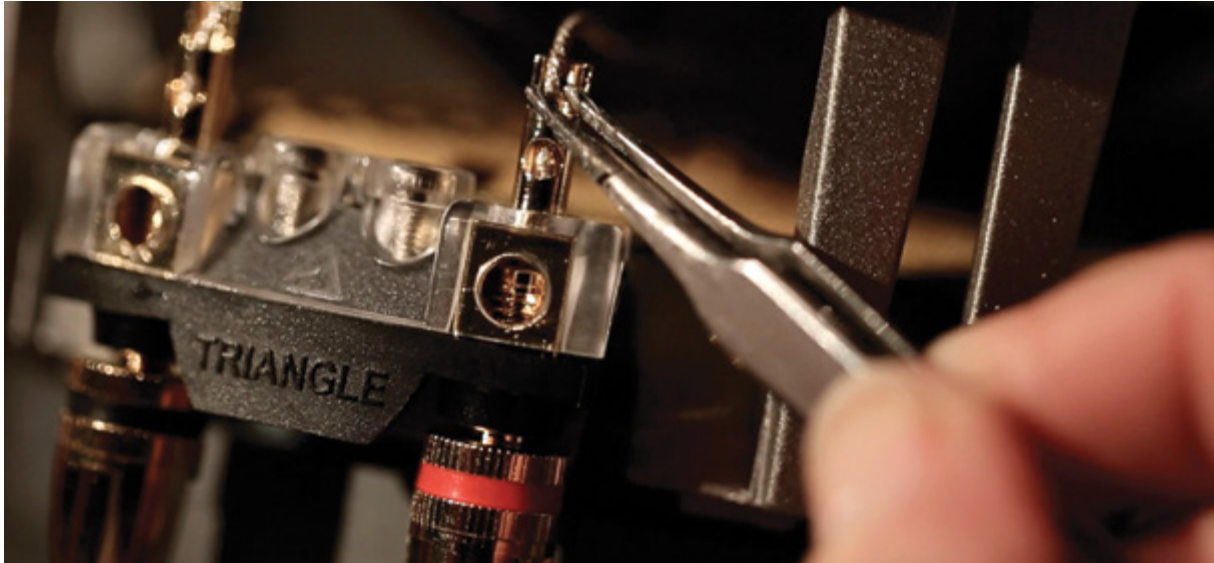
## LIVE MUSIC

TRIANGLE'S GOAL IS TO SHARE THE EMOTION OF THE CONCERT.  
IT ASPIRES TO REPRODUCE THE EXACT SOUND STAGE  
AND THE STRENGTH OF EVERY INSTRUMENT OF THE ORCHESTRA.

ONE DOES NOT SIMPLY LISTEN TO  
A TRIANGLE SPEAKER,  
ONE FEELS IT !



TRIANGLE  
MANUFACTURE ELECTROACOUSTIQUE



This luxury craftsmanship combines the highest level of cabinetwork with TRIANGLE's acoustic expertise.

## LUXURY CRAFTSMANSHIP

### THE FRENCH ART OF SOUND

The Signature range is the result of the hard work and expertise of the TRIANGLE craftsmen whose experience in the domain of acoustics and aesthetic design speaks for itself in the form of their finished speakers.

The SIGNATURE range has benefited greatly from the R&D carried out for the development of the Magellan range. Each speaker is a form of luxury craftsmanship, made and assembled with uncompromised precision, with the goal of achieving manufacturing perfection and irrefragable sound.

This form of luxury craftsmanship combines the finest woodwork with TRIANGLE's acoustic expertise. Each product benefits from hours of work and quality controls that are required to obtain the impeccable design and finish of all TRIANGLE products.

### HIGH PRECISION CREATION

The Signature range is made entirely in Soissons, France. TRIANGLE has completely reviewed its manufacturing process, and the company's Development Engineers work closely to deliver a high quality product.

Numerous acoustic tests are carried out throughout the process to ensure that each element of design adheres to the company's high standards. Each identical driver is individually measured and the speaker is tested in an anechoic chamber. Afterwards a sample is taken and listened to in a specialist listening environment.

Real wood veneers are carefully selected to ensure a homogenous and attractive pairings.



Anechoic chamber developed for high end products.

## CRITICALLY ACCLAIMED INTERNATIONALLY

The Signature range has hit the spot with the hifi press !  
In particular the journalists are extremely enthusiastic about the products superior dynamics.



### CLASS A STEREOPHILE RECOMMENDED COMPONENT

« There is strong competition in the category of mid-priced tower speakers[...] but none of them equals the Triangle Signature Delta in jump factor, and the fact that the Delta achieves this without compromising neutrality.»



### HIFI PIG RECOMMENDED

« The speakers as reviewed are hugely entertaining in a dynamic and punchy sense [...] but that is only half of the story, you also get the impression that this is a really refined speaker that can do subtlety too.»



### STEREOPLAY HIGHLIGHT

« Sehr kultiviert und homogen spielende, elegante Box, die vor allem durch ihre große Bühne bei entsprechenden Hörabständen und ihre Unmittelbarkeit fasziniert. Sie vereint die Tugenden von Hornhohtöner und Kalotte mit hoher Spielfreude.»



### EXPERIENCE AUDIOPHILE HD FEVER

« Mais quelle écoute divine, naturelle, neutre et surtout, comme je le rappelle souvent lors du test, c'est un modèle de précision et d'équilibre tonal !»



### AUDIO GERMANY

« Die Signature Alpha servierte audiophile Feinkost. Van Rock, Pop und Folk bis Jazz ader Klassik überzeugte dieseBox "Made in France" in jedem Genre und geżel als wahre Alleskőnnerin.»



### 5 STARS WHAT HIFI

« Performance well beyond what we would expect. If you value excitement and Entertainment, these Triangle should be at the top of your shortlist. Add this terrific timing ability to strong dynamics, and you have speakers that can stand toe-to-toe with the very best of the opposition.»



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# Signature

by TRIANGLE



A

## ALPHA

The flagship of the Signature range. The performance level is extremely high, offering deep and fast bass. Recommended for larger rooms and environments.



Δ

## DELTA

The Delta model was the company's starting point in terms of research for this range. This 3 way bass reflex speaker is a well-designed technology jewel. This speaker is a symbol of TRIANGLE's acoustic expertise.



Θ

## THETA

The THETA is a compact bookshelf speaker. The clarity and the depth of the lower end register are extremely impressive for a speaker of this size. Equipped with a 16cm driver and a half roll suspension, it offers amazing musical quality power and speed for a bookshelf model.



Γ

## GAMMA

Exclusively developed for this range, GAMMA is a center channel loudspeaker for home cinema. It provides a smooth toned balance, perfectly adapted to all types of movies. Using the same technologies as the bookshelf and floor standing models it offers a great tonal balance.

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## HOME CINEMA SOLUTION THETIS 320 SUBWOOFER

With the Thetis 320's perfect range, reproduction openness and dynamics of sound, the SIGNATURE speakers become the ideal home cinema solution.





## TWEETER TZ2500

A DRIVER IN DIE-CAST ALUMINUM

The new phase plug has been designed to go with the 25 mm titanium dome. The tweeter horn is made from 100% injected aluminum originally developed for the Magellan project. The tweeter's larger surface offers a greater dispersion of high frequencies. The compression volume of the back chamber has been significantly increased to provide better shock absorbance, thus preventing the return of sound waves within the dome.

These enhancements have improved the quality and detail of high frequencies, finesse and transparency, as well as minimal sound distortion.



## MID-RANGE

PAPER CONE DRIVER PROVIDING CRYSTAL CLEAR SOUND

The 185 mm aluminum basket has been entirely redesigned to provide better ventilation to its double-layered coil. It is equipped with a small pleat and peripheral short travel suspension. The new version of this treated paper cone provides increased clarity at this critically important frequency level of sound reproduction. The phase plug has been replaced by a dust cap of identical shape and size to prevent air leaks.



## WOOFER

DOUBLE FERRITES FOR PRECISE BASS PERFORMANCE

This driver benefits from numerous enhancements producing a faster and deeper bass. It is equipped with a double magnet motor, a double-layered coil and an inverted half-roll rubber suspension, all of which ensure a faster speaker response. The cone profile was developed to be purely used in low frequencies. To make it more rigid, the glass fiber membrane is supported by a second paper membrane.



## WOOFER

BOOKSHELF AND CENTER CHANNEL VERSATILITY

Specifically designed for this range, with the objective of creating a bass unit capable of reproducing low frequencies without a large volume load, while maintaining linearity in the high frequencies. It uses the same aluminum basket and treated paper cone to achieve the perfect tonal balance. The dust cap shaped as a phase plug reduces power surges and prevents any aggressive sounds.



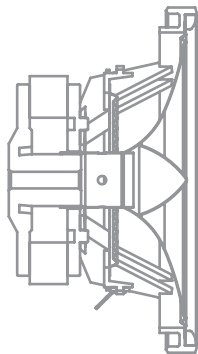
# TECHNOLOGICAL INNOVATIONS FOR SIGNATURE RANGE



## TERMINAL

HIGH QUALITY COPPER  
ALLOY

Each model is equipped with a terminal for bi-wiring or bi-amplification. The terminals are designed and assembled by TRIANGLE. Made of high quality copper alloy they provide an excellent conductivity. They accommodate a 5 mm diameter cable and banana plugs with a locking system for excellent security.



## TWIN VENT

SOLID BASS

A unique element to the Twin Vent is that it discharges the rear wave created by the two separated bass drivers through a single vent. This system means that each of the drivers can operate in complete isolation. Increasing the volume does not disrupt the tonal balance, the only remaining distortion limit is the driver mechanics. The results in terms of power handling are amazing. The listening experience offers a dynamic, solid, well sustained bass.

## FILTERS AND INNER CABLES

The performance optimization of each loudspeaker has enabled TRIANGLE to reduce the amount of components needed in its filters and audio signal path. As a result, the range benefits from greater transparency and a more refined tonal balance. The new filtering system, separating the bass section and the midrange/treble section on the Delta and Alpha models, eliminates the emission of electromagnetic waves and improves the finesse of the midrange/high frequencies. As with all Triangle speakers they are protected against power surges.

To achieve the most optimized results the internal cable was only chosen after multiple listening tests. An element that is often forgotten, Triangle has always paid particular attention to the wiring. The cable provides a perfectly clear sound through medium frequencies and a solid, rigorous sound through low frequencies.

The combination of these two cables minimizes resonance and enhances performance. A special form of insulation, made from polyethylene dielectric, helps to create a cleaner and smoother sound. In addition, the PVC-jacket on the outside, maintains a low friction coefficient.

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A

ALPHA



Δ

DELTA

Sensitivity (dB/W/m)	92	92
Bandwidth (+ - 3dB Hz - kHz)	32-20	35-20
Power Handling (W)	140	120
Repetitive peak power (W)	280	240
Ways	3	3
Nominal impedance	8	8
Minimum impedance	3,3	3,2
Low frequency roll-off (Hz)	290	280
High frequency roll-off (KHz)	2,6	2,7
Dimensions (mm, H x W x D)	1270x233x372	1170x233x372
Dimensions with pedestal (mm, H x W x D)	1330x370x386	1230x370x386
Net Weight (kg)	34,70	33,00

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THETA



GAMMA

Sensitivity (dB/W/m)	90	91
Bandwidth (+ - 3dB Hz - kHz)	45-20	50-20
Power Handling (W)	90	90
Repetitive peak power (W)	120	180
Ways	2	2
Nominal impedance	8	8
Minimum impedance	4,4	4
Low frequency roll-off (Hz)	-	-
High frequency roll-off (KHz)	2,7	2,5
Dimensions (mm, H x W x D)	465x233x372	260x582x381
Dimensions with pedestal (mm, H x W x D)	-	-
Net Weight (kg)	11,55	14,40



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VISIT THE TRIANGLE WORKSHOP

35 YEARS OF PASSION

TRIANGLE continues to strive for the highest possible goals with the objective of providing music lovers with perfection in terms of no compromise sound reproduction, faithfully conveying the emotion and beauty of music.

[triangle-fr.com/madinefrance-en.php](http://triangle-fr.com/madinefrance-en.php)

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[WWW.TRIANGLEHIFI.COM](http://WWW.TRIANGLEHIFI.COM)