

Macau 5 Violin



#### **MACAU VIOLIN**

# Unlocking the Stradivarius Secret: The Revolutionary Macau Violin and Its Timeless Sound

What is the hidden secret behind the legendary sound of the Stradivarius, the world's most expensive and enigmatic violin?

For over 300 years, no one has been able to reproduce this sound—until now. After extensive research into overtones, OTS LAB from Japan has finally uncovered the mystery behind the Stradivarius' extraordinary sound.

The result is the groundbreaking Macau Violin, crafted using this unparalleled technique. This instrument allows violinists seeking a unique and dynamic timbre to achieve it effortlessly.

#### THE OVERTONES

The overtones of the Macau Violin differ significantly from those of antique violins. While ordinary violins develop some overtone effects over time, the Macau Violin is designed with rich overtones from the start. This is the secret behind the legendary sound of the Stradivarius.

There are several types of overtones, which are not mere resonances but multiples of fundamental tones. For instance, playing a fundamental tone on the Macau Violin can produce overtones that are 2, 3, 4, or even 5 times the fundamental frequency. This technology perfectly replicates the legendary sound of the Stradivarius, offering a full-bodied timbre that is vibrant and alive.

## THE IMPORTANCE OF OVERTONES

The richness and integrity of overtones are essential criteria for evaluating a violin's acoustic quality. While high-quality materials are important, they alone do not determine a violin's sound. The exceptional acoustic properties of Stradivari violins arise not only from the fine spruce and varnish of the 17th and 18th centuries but also from the meticulous refinement of their overtone-generating structural design.

Analysis of Stradivari's works from 1701 to 1732 reveals a notable increase in overtone complexity over time, suggesting that the Stradivari family continuously improved their craftsmanship. They focused on the synergy of soundwave resonance, resulting in richer and more intricate overtones.

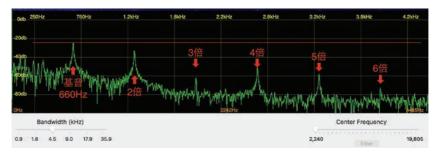
Modern violin makers have attempted to replicate Stradivari's techniques by emulating his wood treatment and varnish formulas. However, they often fall short of recreating his acoustic mastery because the true secret lies in precise structural mechanics.

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### GRASPING THE POWER OF OVERTONES

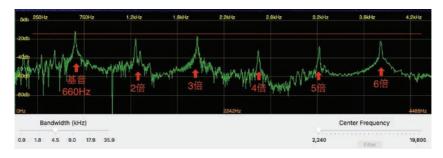
Understanding overtones is essential for appreciating the true acoustic quality of a violin. When you play the first string, E5, the fundamental tone resonates at 660Hz. You can evaluate the violin's sound quality simply by gently plucking the string. This method offers an objective assessment of the violin's tone, minimizing the influence of playing skill.

Consider a violin priced at around US\$2,000. The fundamental tone is clear, but the 2x overtone is barely audible, while the 3x, 4x, 5x, and 6x overtones fade into silence. If the volume decreases by 20dB, these overtones become nearly inaudible, indicating a lack of richness in sound. This is a common characteristic of many violins on the market.



Analysis the sound of a violin priced at around US\$2,000.

Now, let's analyse the sound of the Macau Violin Taipa series. When you play the same fundamental tone, the volumes of the 2x, 3x, 4x, 5x, and 6x overtones are significantly pronounced. The 3x overtone is nearly as loud as the fundamental tone, while the 6x overtone also stands out, showcasing a long decay period. This richness in overtones is evident even in a newly crafted instrument, revealing the secret behind the Stradivarius: its unique structural design that fosters overtone production.



Analysis the sound of the Macau Violin Taipa series

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### THE IMPACT OF OVERTONES ON PERFORMANCE

Instruments with rich overtones provide a natural reverb effect, creating a comfortable and immersive sound experience. Conversely, violins lacking overtones can produce harsh, grating sounds, especially for beginners who are still mastering their technique. This challenge is a common reason many students abandon their violin studies.

Choosing the Macau Violin can transform your experience, helping you regain confidence and rediscover the joy of music. Miss Hidy Chan, a violin teacher from Macao, praises the Macau Violin: "The sound is loud and penetrating; the bass is mellow, while the treble is gentle. The overall tone is harmonious."

When you play an instrument rich in overtones, each note resonates beautifully, making it easier to produce a pleasing sound. The Macau Violin addresses the difficulties many learners face, enabling you to create beautiful tones effortlessly and enhancing your musical journey.



# WHY HAS THE STRING INSTRUMENT WORLD BEEN SLOW TO EMBRACE OVERTONES?

The scarcity of structural overtones in most string instruments is a significant barrier. Even in the acoustic and classical guitar realm, only a few brands have successfully integrated structural overtone technology.

In 2022, after years of research, Japan's OTS LAB uncovered the 300-year-old secret of structural overtones in violins. This technology was first applied to guitars, yielding remarkable results. Building on this success, OTS LAB established Macau Violin in 2024, launching a range of violins designed with overtone systems.



## **Joia Series**

This series features top-quality aged wood and meticulously selected materials for the side panels. Handmade by skilled violin makers, the Joia series incorporates OTS's unique overtone structure, producing a full, warm, and harmonious sound that is favored by experienced musicians.





## **Risorto Series**

Inspired by the charm of old violins, the Risorto series revitalizes century-old instruments. By reconstructing their internal structure with overtone technology, these previously forgotten violins are reborn with a rich, penetrating sound. The name "Risorto," meaning "rebirth" in Italian, reflects this transformation.



## **Taipa Series**

Crafted from Swiss Alpine spruce air-dried for 10 years and European maple with exquisite grain, the Taipa series combines OTS overtone technology with traditional craftsmanship. This series achieves an ideal balance of tonal quality, making it versatile for players at all skill levels.





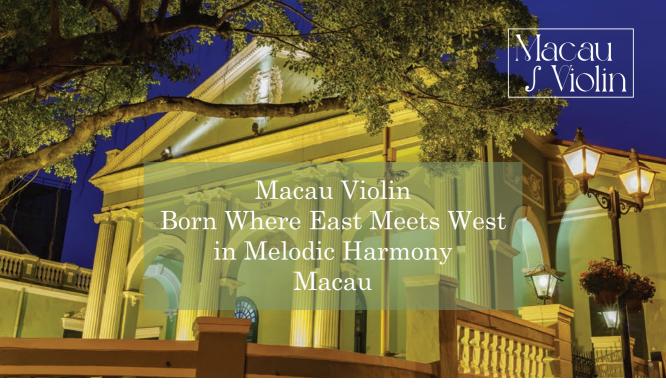


## **Coloane Series**

Designed with affordability in mind, the Coloane series is perfect for aspiring violinists. Whether you are a beginner or an advanced player, this series offers unparalleled overtone quality at its price point, enhancing your performance and making playing an absolute joy. Among violins in its price range, the Coloane series stands unmatched.







# MACAU VIOLIN: BORN WHERE EAST MEETS WEST IN MELODIC HARMONY – MACAU

Macau, a vibrant city that beautifully blends its Chinese roots with Portuguese heritage, stands as a unique testament to cultural exchange under the principle of "One Country, Two Systems." This exceptional environment fosters the growth and appreciation of diverse artistic treasures, making it an ideal birth-place for the MacauViolin.

For centuries, Macau has served as a vital gateway, connecting the vast Chinese market with the world. It is not only a bridge for trade but also a significant hub for cultural dialogue, where Eastern and Western civilisations converge. This rich tapestry of influences has shaped Macau into a dynamic cultural landscape, where traditions harmoniously coexist.

Central to this cultural exchange is the historic Dom Pedro V Theatre - the first Western-style theatre in China - built in 1860. This iconic venue marks the dawn of a new era in the arts, hosting countless concerts and performances that celebrate the fusion of cultures. The theatre is a living symbol of Macau's commitment to preserving its artistic heritage, even as it embraces modern creative expressions.

# A SYMBOL OF MELODIC HARMONY AND CULTURAL COLLABORATION

Among Macau's notable figures is the esteemed musician Sien Singhai (1905–1945), whose legacy continues to inspire. Deeply rooted in Macau's cultural soil, Sien Singhai's contributions to music reflect the city's nurturing embrace of artistic talent. His passion for the violin serves as a reminder of the instrument's role in connecting hearts and minds across cultures.

It is said that the violin may have accompanied the Italian missionary Matteo Ricci into China via Macau during the Ming dynasty, further illustrating the historical intertwining of Eastern and Western music traditions. This profound exchange underscores the essence of the MacauViolin, crafted to resonate with the harmonious blend of both worlds.

Thus, we pay tribute to this exceptional city, celebrating Macau as the birthplace of the Macau Violin - a symbol of melodic harmony and cultural collaboration. Here, where the echoes of history meet the artistry of the present, the MacauViolin stands as a beacon of creativity, inviting musicians to explore its unique sound and join in the celebration of Macau's rich cultural tapestry.



### THE VISION

We believe that instruments capable of producing such rich overtones are "treasures of mankind". Our vision is to share the beautiful and unique timbre of the Macau Violin with the world, allowing more musicians to appreciate this extraordinary sound. We are eager to collaborate with violin manufacturers who share this vision.







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