

ODYSSEY



Mastery in Simplicity.

The Benny Audio Odyssey is the culmination of over 7 years of intensive research and the pursuit of the best solutions possible. Our design principles are straightforward yet powerful.

First and foremost, function leads over form, with the form being a direct outcome of its function. Our construction principles aim for the best sound quality possible. Only after meeting these foundational goals do we consider the aesthetic design. For the Odyssey, this design is inspired by modernism, embodying the principle that “less is more.”

We steer clear of complicated mechanisms. The Odyssey eschews unnecessary gadgets, opting for simplicity in its design which, in turn, translates to durability and low maintenance. Implementing simple solutions often demands more effort and resources.

Simplicity also means ease of use and intuitive operation. BennyAudio's turntable is a device anyone familiar with basic turntable functions can operate, without needing complex procedures or specialized knowledge.

We value your time. The Odyssey powers up instantly and lets you play the record in less than 20 seconds.

Enjoy the music. Focus on your records, not the turntable.



A close-up, high-angle photograph of the Odyssey turntable's plinth. The plinth is a light gray, matte-finished material with a series of horizontal ridges. The word "ODYSSEY" is embossed in a large, sans-serif font across the middle of the plinth. Above it, a stylized logo resembling a lowercase 'b' or a musical note is also embossed. The lighting creates soft shadows, emphasizing the texture and form of the plinth.

VIBRATIONS: THE DUAL NATURE IN SOUND.

The Odyssey turntable is engineered to conquer vibrations, the unseen disruptors of sound. These unwelcome vibrations come from two main sources: the world outside and the turntable itself.

To tackle external vibrations, we've layered defenses starting from the ground up. Our turntable stands on special feet with a porcelain core, designed to absorb shocks. From there, a robust base and a triple-layered plinth crafted with a unique bonding technique act as barriers, all the way up to three separate platters that each play a role in dampening outside interference.

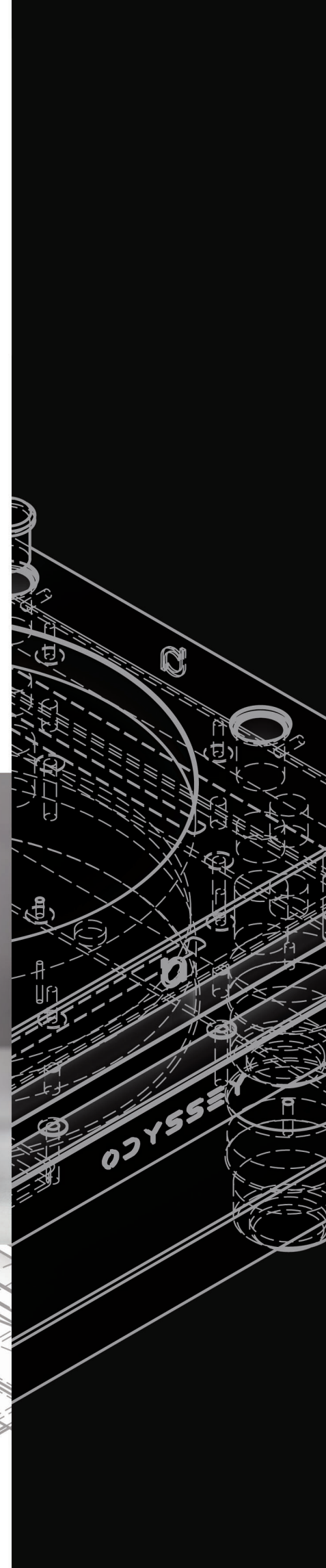
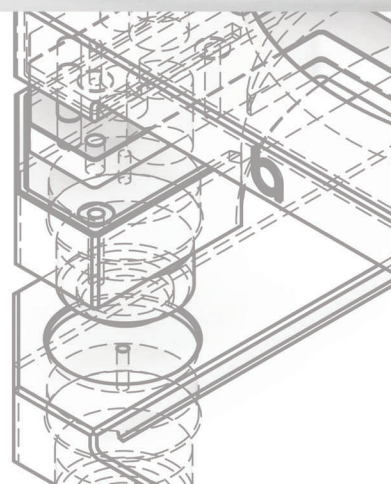
For internal vibrations, those generated by the drive system are isolated in a heavy, sealed enclosure, minimizing their impact. Even the vibrations from the cartridge are controlled with precision by the turntable arm.

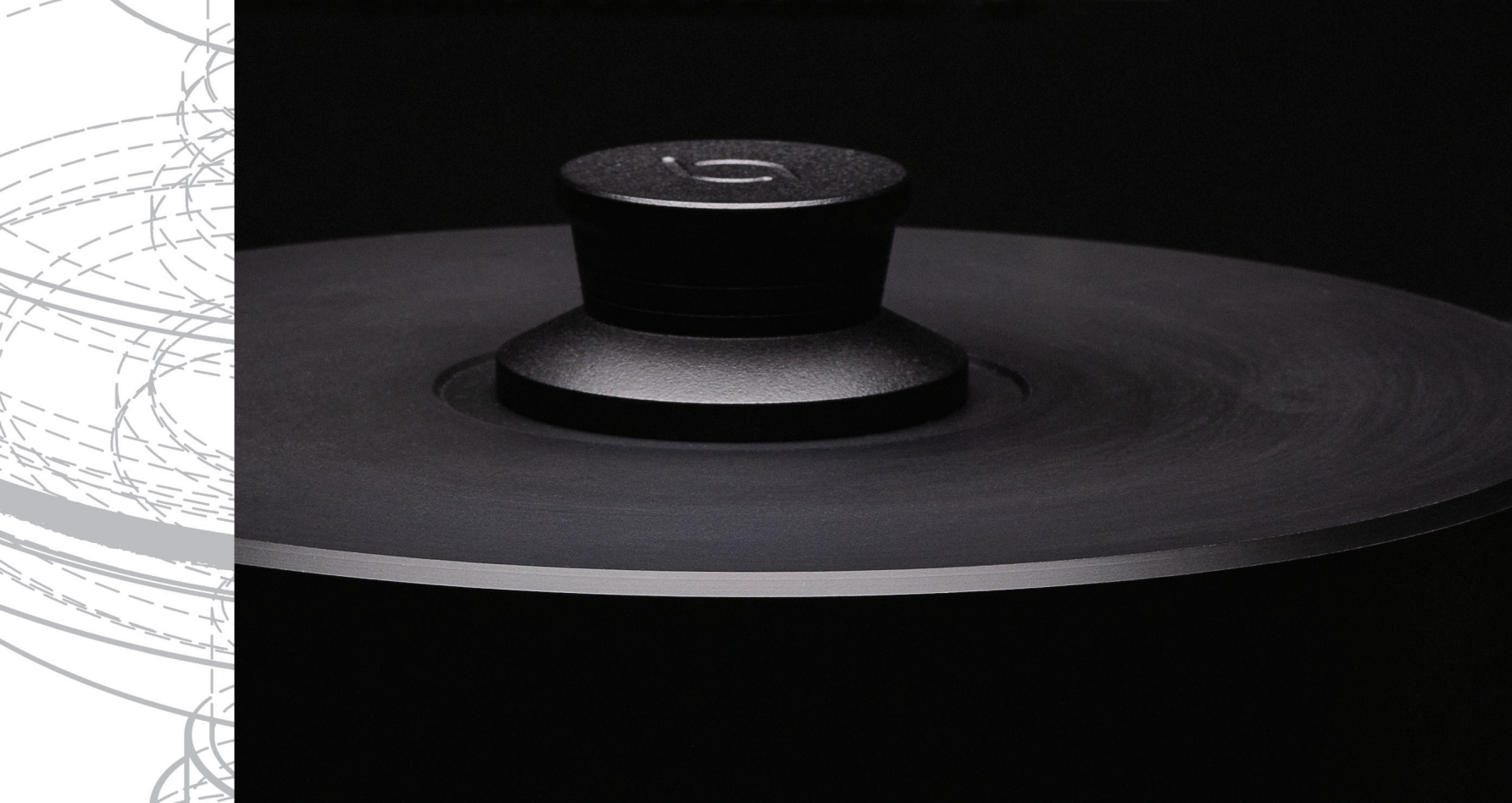
THE PLINTH is crafted from sturdy aluminum and polyacetal, forming a foundation that blocks unwanted vibrations.

At the heart of our design is a special layer made from POM (polyoxymethylene), known for its vibration-blocking powers. This layer keeps the crucial parts of the turntable—like the bearing and platters—free from any vibration.

The turntable sits on a precision-crafted aluminum base, adding an extra shield against vibrations and making sure the turntable is perfectly level for the best sound experience.

Rounding out our design are unique Benny Audio anti-vibration feet with inverted porcelain cups, developed with the expertise of ceramic artisans. These feet further isolate the turntable from vibrations, ensuring the music you hear is as clear and pure as intended.





Our **MAIN BEARING** is a sophisticated assembly featuring a POM base, an aluminum body, and a sleeve crafted from a high-grade synthetic material. At its core, a 15mm shaft made from hardened steel ensures durability and precision. Each bearing and shaft is manually polished, working in harmony with our specially formulated sliding oil. This meticulous process is complemented by a unique top-fill oil system designed to simplify maintenance and eliminate air from the system, ensuring smooth operation.

We employ a THREE-PLATTER design to achieve unparalleled sound stability and clarity. By designing the platters to be separated, we further isolate vibrations, ensuring that each note and nuance is heard in crystal-clear detail. Every component is crafted by experienced specialists, using cutting-edge technology developed in collaboration with BA, to guarantee the highest levels of precision and quality.

The heart of our **DRIVE SYSTEM** is a powerful BLDC motor, controlled by a Swiss-engineered driver and governed by Benny Audio's own custom-programmed microcontroller. This synergy of components ensures unparalleled precision and reliability.

Key Features of Our Drive:

- Ultra-Precise Pulley: crafted to exacting standards with up to 5 microns of precision, ensuring flawless platter rotation.
- Soft Start and Stop: protects the belt and extends its life by gently managing the motor's power on and off.
- Continuous Speed Control: our open-loop system monitors and adjusts the platter's speed after each revolution, maintaining perfect pitch unnoticeably.
- Adaptive Speed Correction: with a range of +/- 8 degrees, easily adjust for belts of varying diameters, guaranteeing consistent speed.
- Smooth Torque Adjustment: as speed increases, torque decreases smoothly, ensuring a uniform rotation curve.
- Customizable Backlighting: set the mood with variable backlight colors and intensity.
- Durable Rotary Switch: engineered for longevity, providing reliable performance.

Together with our precision-engineered bearing and platters, this drive system achieves one of the most stable rotations available, as measured by the RPM app on iOS. Discover the difference in your listening experience with Benny Audio's turntable drive system.





THE TONEARM

is designed to perfectly complement the cartridge, ensuring unimpeded performance throughout its delicate operation. Our approach involves a proprietary analysis of vibrations and resonances across a broad spectrum of frequencies, from 20Hz to 15kHz. It is a meticulous process, where we only proceed with cabling and sonic verification after all resonances are fully addressed. This method guarantees that the tonearm enhances the audio experience by capturing every nuance with precision.

Key Features of the Tonearm:

- Length: 14 inches (other options available)
- VTA Adjustment: offers “on-the-fly” vertical tracking angle adjustments, allowing for optimal alignment with the record groove.
- Optional Oil Damping: enhances playback stability and reduces unwanted vibrations.
- Silver Monocrystalline Wiring: direct wiring from the cartridge to the preamplifier ensures signal purity.
- Smooth Anti-skating Adjustment: precisely controls the lateral force for balanced playback.
- Custom headshell and Cartridge Mount: a proprietary design that secures the cartridge for optimum performance.
- Effective Mass: ranges between 18g to 30g, accommodating different cartridges and headshells (carbon fiber or titanium options available).

This carefully considered approach results in a tonearm that delivers unparalleled sound clarity and fidelity, ensuring every note and nuance is captured with absolute precision

Plinth	Plinth	242 (H), 400 (W), 400 (D)
	Dimension with one tonearm	max 230 mm + regular W and D
	Weight	59 kg (without tonearm)
	Number of tonearms	Up to 3 tonearms (4 mounting points)
	Isolation feet	Stainless steel with porcelain insert (8 total)
Tonearm	Tonearm weight	0,52 kg (14 inch)
	Base weight	1,5 kg
	Length	9 to 14 inches
	Headshell	Carbon Fiber (4,7 g), Titanium (14,9 g)
	Effective weight (14 inch)	18 g (Carbon fiber headshell) - 31 g (titanium headshell). Final effective weight depends on cartridge used
Power Supply	Power supply	ULPS DC power supply
	AC input voltage	110 V or 220 V (set by switch)
	DC output voltage	12 VDC
	DC wire and plug	2 wire cable, GX16 plug
Drive	Rotational speed	33.3 rpm and 45 rpm
	Motor	1 BLDC, 3 phase, 8 pole 20 W motor
	Motor mount	External steel case
	Speed guidance system	Continuous open loop feedback
	Sensors type	Motor HALL Sensors
	Correction cycle	Every 1 rotation (corresponding number of HALL sensor pulses)
	Speed Monitoring	HALL Sensor counting vs time
	Correction steps	16 steps set on front panel
	Drive belt	1 VMQ belt, 3 mm diameter
	Additional features	Soft start (<20 seconds), soft stop, last speed save, auto corrections, 13 back light colors, 6 step dimmer
	Wow&Flutter	0,07 % (best run measured and saved on IOS RPM Speed app)
Platters and bearing	Upper platter	Black delrin, 300 mm diameter, 5 kg
	Mid platter	Stainless steel, 300 mm diameter, 8 kg
	Lower platter	Stainless steel, 200 mm diameter, 4 kg
	Main bearings	Hydrodynamic inverted sleeve and ball (aluminium alloy, PEEK sleeve)
	Shaft type	15 mm hardened stainless steel
	Ball type	YG8 10 mm sintered carbide
	Lubricant	High viscosity synthetic oil, oil refill from top of the platter
	Service interval	oil refill on demand, 3 years (bearing cleaning)

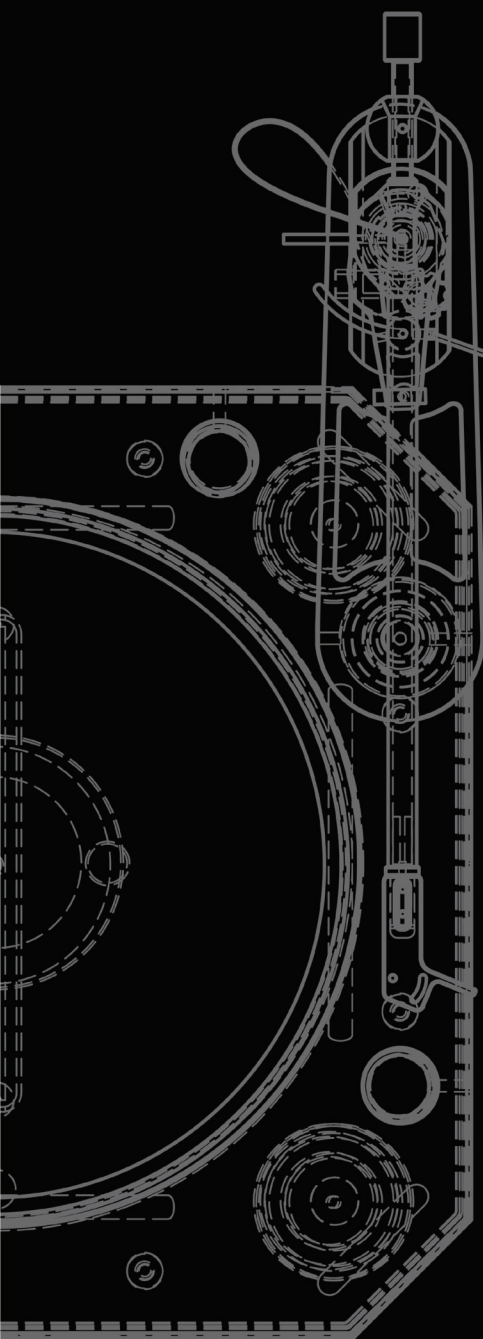


Founded in 2017, BennyAudio was born from a deep commitment to outstanding sound quality and a desire to elevate the audio listening experience.

Our company is the realization of a personal dream. Every detail of our turntables, from their initial design to the meticulousness of their craftsmanship, reflects our founder's unwavering commitment to excellence. This dedication means that every BennyAudio turntable is more than just a piece of equipment; it's a masterpiece of sound engineering.

We warmly invite you to embark on this journey of auditory discovery with us. Here, every subtlety matters, and each listening session brings a deeper appreciation for the music you love.

TOMASZ FRANIELCZYK



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