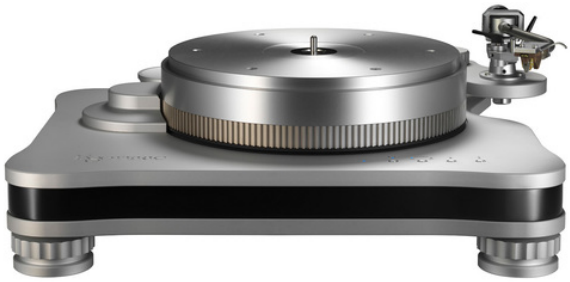

ESOTERIC

T-01 MagneDrive Turntable with Tonearm

257461

Esoteric T-01 is an analog turntable driven by the patented MagneDrive contact-free system for silent, high-torque rotation. Includes the TA-9S static-balance tonearm; no cartridge included.

Colour

PRODUCT DETAILS

Product designation
T-01 (Tonearm included, No cartridge included)

Silence. Precision. Motion.
First introduced in the groundbreaking Grandioso T1, the revolutionary patented (JP6501130) "Esoteric MagneDrive System" redefined the foundations of analog playback through its exclusive contact-free drive technology. Now integrated into the T-01, it achieves extraordinary rotational silence, stability, and high-torque performance, revealing music with uncompromising precision, energy, and realism. Four years after the debut of the Grandioso T1, the Esoteric Analog Revolution lives on.

Developed from the engineering philosophy established in the Grandioso T1, the T-01 incorporates key technologies inherited from Esoteric's flagship analog platform, including 10MHz external clock synchronization, a sophisticated triple-layer aluminum and MDF cabinet construction, and a newly developed, silent MagneDrive motor system integrated into a more installation-friendly chassis architecture.

At the intersection of precision mechanical engineering and advanced electronic design, the T-01 is dedicated to reproducing the original master sound with breathtaking realism, musical energy, and emotional depth.

Key Features

- **"Esoteric MagneDrive System":** Revolutionary, patented (JP6501130) contact-free drive system.
- **High Torque:** Provides superior pitch stability and dynamic bass performance.
- **Magne-Float Platter Technology:** Reduces the platter's effective mass from 13kg to approximately 5.5kg, minimizing spindle bearing friction.
- **MagneDrive Motor Integrated Chassis Design:** Enables easier installation and improved usability.
- **Silent Motor Operation:** Achieved through the "Vibration Absorber Case" construction.
- **High-End Separate-Units Design:** Consisting of main unit and compact power supply unit for enhanced operational efficiency and sound isolation.
- **A High-Quality "Master Sound Discrete Clock" Motor Driver:** Ensures exceptionally accurate

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platter rotation.

- **Clock Sync Compatibility:** Supports 10MHz clock sync with the G-01XD/G-05 master clock for seamless integration.
- **Inverted Bearing System:** Ensures smooth and stable platter rotation.
- **Triple-Layered Chassis:** Combining aluminum and wood to effectively control vibration, with a mid-chassis finished in luxurious high-gloss piano lacquer.
- **Specialized Isolation Feet:** with a fully integrated design (spike + spike pad + damper), specialized for maximum vibration suppression and anti-feedback performance.
- **Speed Control Flexibility:** Two-speed operation (33/45 rpm) with adjustments in 0.1% increments for ultimate accuracy.
- **Tonearm Options:** Available with the TA-9S static-balance tonearm or as a standalone unit. Supports up to two tonearms with optional arm-board configurations.

The Esoteric MagneDrive System
The Esoteric MagneDrive System (Patent: JP6501130) is a non-contact, magnetically induced turntable drive system.

In order to achieve our goal of reproducing master-quality sound from a vinyl playback system, Esoteric devoted more than five years from the start of the project to the patent acquisition and commercialization of the MagneDrive system.

A "Magnetic Driver" is mounted on the top of the drive motor. The side of the Magnetic Driver is a dome-shaped magnet with alternating S and N poles. The platter is made of non-magnetic aluminum, but a soft iron "Induction Wheel" surrounds the lower part of the platter side, positioned in close proximity to the Magnetic Driver mounted on the motor assembly. As the Magnetic Driver rotates, the platter rotates synchronously with the induced magnetic force applied to the Induction Wheel. Because this induction mechanism operates without direct physical contact, the platter remains isolated from motor-borne vibration and rumble.

The Principle of Rotation
Extremely Quiet Rotation
For vinyl record playback, which picks up vibrations from record grooves on the order of microns and converts them into audio signals, the elimination of vibrations generated by motors is essential to achieving true master-quality sound reproduction.

The Esoteric MagneDrive System revolutionizes this aspect by employing a noncontact power transmission mechanism between the motor and the platter. This innovative design eliminates motor-generated vibrations entirely, allowing for an ultra-silent, "rumble-free" rotation and delivering crystal-clear audio that preserves the purity of every note.

Precision-Engineered Platter with Magne-Float System
The T-01 features a meticulously crafted 13kg high-mass platter, precision-machined from a solid aluminum block. This heavy-duty design is enhanced by the innovative "Magne-Float System", which reduces the effective bearing load to approximately 5.5kg. This breakthrough achieves an ideal balance of high rotational inertia and minimal friction, resulting in remarkably smooth, stable, and whisper-quiet rotation. To further enhance stability, the platter incorporates inverted bearings that position the fulcrum closer to the vinyl surface. This design ensures unparalleled rotational stability, optimizing playback precision.

The platter's surface is a masterpiece in itself. Hand-finished by skilled craftsmen, each platter undergoes a meticulous polishing process to achieve a mirror-smooth finish and a stunning spin pattern reminiscent of fine artisanal craftwork. Combining engineering excellence with aesthetic sophistication, the platter exemplifies Esoteric's commitment to artistry and performance.

Powerful, Dynamic Sound
High-torque turntable systems are generally valued for their superior pitch stability and their ability to reproduce music with powerful dynamics and authoritative, impactful "punchy-bass" performance.

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The Esoteric MagneDrive system has a powerful drive torque, and can accurately reproduce the dynamics of music while eliminating the rumble typically associated with conventional high-torque drive designs.

Exceptional Rotational Accuracy
Esoteric MagneDrive System establishes a new benchmark in rotational precision. By leveraging a magnetic driver and platter working in perfect synchronization, this mechanism eliminates traditional speed deviations caused by mechanical imperfections such as belt stretch or pulley inaccuracies. The result is exceptionally stable, precise, and consistent platter rotation.

T-01's magnetic synchronization adheres strictly to the fundamental principles of rotational transmission physics, maintaining constant and reliable speed under all conditions. This innovative design delivers breathtaking audio performance, capturing every nuance of your vinyl records with precision and clarity.

The T-01 is not just a turntable, it is a statement of engineering excellence, precision craftsmanship, and uncompromising musical authenticity.

A Motor Unit Incorporating the Best of Esoteric Technology
The T-01 features a chassis-integrated MagneDrive System motor unit, eliminating the need for the time-consuming setup process using specialized jigs required by the Grandioso T1 and making installation much easier.

To maximize the quiet operation of the Esoteric MagneDrive System, the motor assembly incorporates a dedicated 'Vibration Absorber Case' designed to minimize the transmission of unwanted vibration to the chassis, preserving the purity of vinyl playback.

Motor Unit Featuring a "Vibration Absorber Case"
The motor itself is suspended from a ring-shaped support bracket via anti-vibration rubber washers preventing motor-generated vibrations from being transmitted to the surrounding structure.

The bracket is secured to a heavy-duty, precision-machined, dual-layer brass base (forming the main body of the 'Vibration Absorber Case') where residual vibrations are effectively absorbed and controlled. The motor assembly, housed within this anti-vibration case, rests on an aluminum base under its own weight. The strategic combination of dissimilar materials helps disperse and suppress vibration modes across a wider frequency range. The aluminum base is designed with special laser-cut slits that disperse vibration modes into finer frequencies.

Master Sound Discrete Clock Circuit
The motor driver circuit incorporates a high-precision 10 MHz master clock to accurately generate the drive waveform that powers the motor. The clock circuit utilizes our proprietary Master Sound Discrete Clock technology to ensure high precision.

10MHz Master Clock Sync Capability
The motor unit of the T-01 is engineered for the highest level of rotational precision, featuring an external 10MHz clock input. By connecting the external Master Clock Generator (sold separately), you can elevate sound quality even further. This configuration supplies the motor driver circuit with an ultra-precise reference clock signal, enabling exceptionally accurate waveform generation, superior rotational stability, and an even higher level of musical performance.

Maintenance-Free Longevity
The unique Esoteric MagneDrive System offers significant advantages over traditional turntable mechanisms. By eliminating the need for a drive belt, it removes the hassle of periodic replacements and significantly reduces wear on moving parts. This innovative design ensures minimal maintenance while preserving long-lasting, high-quality sound performance.

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With the Esoteric MagneDrive System, you can enjoy exceptional audio clarity and reliability for years to come, making it a truly worry-free investment in premium sound.

Elegance in Performance
Toward the one and only our design goal of "Reproducing the Master Sound," the T-01 chassis is engineered to optimally control every vibration factor that influences sonic performance. The T-01 chassis is mechanically engineered like an F1 racing car, with the balance between rigidity and flexibility pushed to its absolute limits, achieving an exceptional harmony of structural integrity, resonance control, and dynamic responsiveness.

Its elegant, minimalist form reflects this uncompromising pursuit of perfection, a visual expression of engineering precision, refined craftsmanship, and functional beauty.

Triple-Layer Chassis: A Masterpiece of Craftsmanship and Performance
The T-01 features an elegantly sculpted triple-layer chassis, embodying Esoteric's longstanding heritage of exceptional mechanical engineering and precision craftsmanship. This innovative design combines a wood core, valued for its excellent internal damping characteristics, sandwiched between thick aluminum layers for optimal rigidity and vibration control.

Top Layer: The tonearm is securely mounted on the upper aluminum layer, providing a highly stable platform for precise tracking accuracy and optimal mechanical integrity. **Bottom Layer:** The MagneDrive System, spindle assembly and isolation feet are anchored to the lower aluminum layer, minimizing the influence of external vibration and maximizing structural stability. **Mid-Chassis:** A carefully engineered wood layer lies between the aluminum layers to prevent vibration transmission between the tonearm and platter. This configuration not only isolates vibrations but also enhances tonal clarity and purity.

The wooden mid-chassis further enhances the T-01's sonic character by imparting a natural sense of warmth, tonal richness, and exceptional overall balance. Its ability to reproduce a richly detailed mid and low-frequency range creates a listening experience reminiscent of the original master tapes, delivering music with remarkable depth, presence, and realism. This seamless integration of carefully selected materials, advanced engineering, and refined craftsmanship results in a turntable that is as visually stunning as it is sonically extraordinary.

Luxurious High-Gloss Piano Finish Mid-Chassis
The wooden mid-chassis of the T-01 is meticulously finished with a luxurious high-gloss piano lacquer. Achieved through multiple layers of carefully applied coating and expert hand-polishing, this process results in a flawless, jet-black surface with a smooth, almost liquid-like luster. Free from harsh glare, the finish conveys a refined elegance that elevates the turntable's aesthetic appeal.

The organic warmth and artisanal character of the wooden mid-chassis create a striking contrast with the clean, precision-engineered aluminum layers. The dynamic interplay between these elements creates a visual masterpiece that enhances the joy of owning the T-01, making it not just a turntable, but a true work of art.

Specialized Isolation Foot Integrating Spike, Spike Pad, and Damper
This new isolation foot for analog turntables combines Esoteric's patented structural design with an advanced damping mechanism engineered to suppress acoustic feedback. The added damper effectively blocks ultra-low frequencies that cause feedback while maintaining the vibration-control characteristics and precise mechanical grounding unique to pinpoint spike feet. By uniting vibration damping, mechanical stability, and feedback suppression within a fully integrated structure, this innovative isolation system contributes to exceptionally clear, focused, and highly articulate vinyl playback.

Equipped with the TA-9S Static-Balance Tonearm

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The T-01 features the Esoteric TA-9S static-balance tonearm, which is equipped with high-precision gimbal bearings. This high-quality tonearm boasts a gimbal bearing system that delivers rich bass, dynamic range, and outstanding lateral stability. Each unit is meticulously hand-assembled by skilled Japanese craftsmen using aluminum and brass parts manufactured via high-precision CNC machining. This uncompromising level of precision, craftsmanship, and build quality clearly distinguishes the TA-9S from conventional mass-produced tonearms. The T-01 is equipped with dial-adjustable anti-skating and VTA adjustment functions.

Separate Power Supply Unit
The T-01's power supply unit, dedicated to powering the motor drive and control circuitry, incorporates a large toroidal transformer engineered for stable, high-quality power delivery. Separating it from the turntable itself eliminates vibration and noise, ensuring a clean and powerful drive. The power supply is housed in a compact aluminum enclosure, allowing for flexible placement and convenient system integration.

"Washi" Turntable Sheet
Complementing the T-01's performance, the turntable sheet is crafted from Washi, a traditional Japanese paper renowned for its neutral tonal characteristics. This carefully chosen material not only enhances the T-01's ability to deliver an uncolored, pure sound but also reflects Esoteric's commitment to harmonizing traditional Japanese craftsmanship with advanced engineering.

Specifications Turntable

- Rotation speed: 33 rpm, 45 rpm
- Wow and flutters: 0.06% or less (W.R.M.S)

Clock input

- BNC: × 1
- Input impedance: 50
- Frequencies that can be input (±10 ppm): 10MHz
- Input level: 0.5 to 1.0Vrms (sine wave)

Tonearm (TA-9S)

- Format: Static-balanced
- Total length: 309mm
- Effective length: 232mm
- Distance from bearing center to spindle center: 216mm
- Overhang: 16mm
- Offset angle: 22.5°
- Tracking force range: 0 to 3g (with 0.25g steps)
- Cartridge/shell balance range: 15 to 32g (including headshell)
- Headshell weight: 17g

General

- Power supply — Model for USA/Canada: AC120V, 60Hz
- Power consumption: 9W (in standby 0.3W)
- External dimensions — Main unit (with tonearm installed): 539 × 206 × 432 mm / 21 ¼" × 8 " × 17 "
- External dimensions — Power supply unit: 146 × 128 × 353 mm / 5 ¾" × 5 " × 14"
- Weight — Main unit: 35 kg / 77 lb (Base unit 22 kg / 48 lb, Platter 13 kg / 28 ¾ lb)
- Weight — Power supply unit: 7 kg / 15 ½ lb

External dimensions are W×H×D, including protrusions.

Included accessories

- Height gauge × 1
- Turntable mat × 1
- DC power cord × 1

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- AC power cord × 1
- Handles × 2
- Felt pads × 7
- Owner's manual × 1
- Warranty card × 1
- Tonearm TA-9S × 1
- Tonearm TA-9S owner's manual × 1
- Arm base × 1
- Hex wrench × 1

* Design and specifications are subject to change without notice.

T-01 can accommodates up to two tonearms by using the Arm base kit.

* The position of arm posts and the number of arms to be installed may be restricted due to the shape of the arm mounting section, etc. Please contact our authorized distributors if you plan to install arm(s) from other manufacturers.

*An optional arm base kit is required on the arm-less model. If you do not see it in the list of compatible tone arm, custom design order is available.

Arm Base Kit (sold separately)

- Arm Board × 1
- Arm Post × 1
- Thumb screw for the Arm Post × 1
- Fixing screw × 3

Compatible tonearms by kit

- AB-T01SM1: SME (9, 10, 12 inch); Graham Phantom (9, 10, 12 inch). For Graham Phantom models equipped with standard SME-compatible mount.
- AB-T01GH1: Graham Phantom (9, 10, 12 inch). Designed for Graham Phantom custom mount. If your Graham Phantom has standard SME-compatible mount, go for the AB-T01SM1.
- AB-T01KD1: Ikeda (9, 12 inch). Compatible with or without VTA elevation.
- AB-T01SC1: SAEC WE-4700
- AB-T01RD1: Reed 5T, 5A
- AB-T01GL1: GLANZ (9, 10, 12 inch)
- AB-T01PC1: Primary Control FLC (12 inch)
- AB-T01DU1: Durand Tosca
- AB-T01RT1: ortofon AS-212R
- AB-T01SP1: Supreme Analog Tangenta
- AB-T01KZ1: KUZMA Safir9
- AB-T01ST1: SAT (9, 12 inch). 9 inch arm can be mounted on rear-right post only.
- AB-T01AS1: Acoustical Systems Axiom
- AB-T01TP1: Tri-Planar The Ultimate12

Specs

Product Attributes

EAN:	4907034226061
Manufacturer number:	T-01
Product weight:	42.0 kilograms

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Pieces per master carton:	1 Piece

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