



Optional stand for MG-10 STD-MG10

Optional stand for MG-20 STD-MG20

Optional stands and bases are now available. These heavy duty stands and bases are designed exclusively for ESOTERIC's MG series and feature material composite resonance control. This technology improves the performance of the innovative MG series loudspeakers.

STD-MG10 and STD-MG20 use extra-heavy 15mm (6 inch thick), solid aluminum base plates with ESOTERIC's proprietary 3 pin-point feet system. STD-MG10 uses precisely machined duralumin speaker base plates on top. Resonance control steel plates are added to these speaker bases for better resonance control ability. STD-MG10 uses a 100 mm (3.9 inch wide) steel column which is heavily damped with Teflon powdered polypropylene grain helping to reduce metallic resonance of the column.

STD-MG10:
621 (H) x 260 (W) x 310 (D) mm / 12.8 kg
24.5 (H) x 10.2 (W) x 12.2 (D) inches / 28.2 lbs. ea.
STD-MG20:
36 (H) x 260 (W) x 310 (D) mm / 3.9 kg
1.4 (H) x 10.2 (W) x 12.2 (D) inches / 8.6 lbs. ea.

Specification

SA-10

- General
- System: Super Audio CD, CD
- Power supply
 - Europe model: AC 230 V, 50 Hz
 - U.S.A./Canada model: AC 120 V, 60 Hz
 - Korea model: AC 220 V, 60 Hz
- Power consumption: 18 W
- Weight: 12.5 kg (27 9/16 lb)
- External dimensions (W x H x D):
442 x 149 x 353 mm (17 3/8" x 5 7/8" x 13 7/8")

- Audio output (Analog Audio)
 - Jacks: XLR jacks (2 channel) x 1, RCA jacks (2 channel) x 1
 - Maximum Output level (1 kHz, full scale):
2.2 Vrms ±0.1 V/10 k ohms
 - Frequency response:
5Hz - 50 kHz (SA-CD, DSD setting: Normal),
5Hz - 80 kHz (SA-CD, DSD setting: Direct)
 - Signal-to-Noise Ratio (S/N): 130 dB
 - Dynamic range: 107 dB
 - Total harmonic distortion: 0.001%

- Audio output (Digital Audio)
 - OPTICAL: Optical digital jack x 1
 - COAXIAL: RCA jack x 1
 - The i.LINK (AUDIO) terminals (4 pin x 1, 6 pin x 1) will become available after a future hardware upgrade (Optional at additional cost).

- Word Synchronization input format
 - Jack: BNC
 - Input level: TTL level/75 ohms
 - The SA-10 can accept and synchronize to the following frequencies received from external devices (rectangular wave): 44.1kHz, 88.2kHz, 100kHz, 176.4kHz

AI-10

- General
- Power supply
 - Europe model: AC 230 V, 50 Hz
 - U.S.A./Canada model: AC 120 V, 60 Hz
 - Korea model: AC 220 V, 60 Hz
- Power consumption: 135 W
- Weight: 14.5 kg (31 15/16 lb)
- External dimensions (W x H x D):
442 x 149 x 383 mm (17 3/8" x 5 7/8" x 15 1/16")

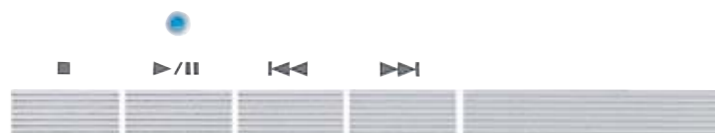
- Digital Input Terminals
 - Input format:
linear PCM (44.1kHz-192kHz, 16-24bit),
DSD (after a future hardware upgrade (charged))
 - Coaxial Jack: RCA x1
 - Optical Jack: OPTICAL x1
 - The i.LINK (AUDIO) terminals (4 pin x 1, 6 pin x 1) will become available after a future hardware upgrade (Optional at additional cost).

- Amplifier Section
 - Output Power: 110 W + 110 W (1 kHz, 8 ohms),
150 W + 150 W (1 kHz, 4 ohms)

- Maximum useful output power:
150 W + 150 W (1 kHz, 8 ohms, JEITA)
- Minimum impedance: 4 ohms
- Total Harmonic Distortion:
0.08 % (at 110 W, 1 kHz, 8 ohms)
- Frequency Response (COAXIAL, OPTICAL):
5 Hz to 95 kHz, -3 dB (at 1 W, 8 ohms)
- Signal-to-Noise Ratio (COAXIAL, OPTICAL): greater than 110 dB (JEITA)

- Word Clock
 - Jack: BNC
 - Output level: TTL level/75 ohms
 - Word Clock Output Frequency: 44.1, 88.2, 176.4, 48, 96, 192, 100 (kHz)

Main Specifications	MG-10	MG-20
CABINET DIMENSIONS (H x W x D)	440 x 216 x 271 mm (17-5/16 x 8-1/2 x 10-11/16")	1060 x 216 x 271 mm (41-3/4 x 8-1/2 x 10-11/16")
ENCLOSURE VOLUME	13 liter (7/16 cu.ft.)	21.5 liter (3/4 cu.ft.)
ENCLOSURE TYPE	Reflex	
ENCLOSURE WEIGHT	7.5 kg (16-1/2 lbs)	15 kg (33 lbs)
RECOMMENDED AMPLIFIER POWER	20 to 120 watts per channel	20 to 170 watts per channel
POWER RATING	75 watt RMS	90 watt RMS
	300 watt peak	360 watt peak
SENSITIVITY	87.5 dB for 2.83 volt at 1 metre, half space	89 dB for 2.83 volt at 1 metre, half space
NOMINAL IMPEDANCE	6 ohm	
MINIMUM IMPEDANCE	3.8 ohm	3.7 ohm
FREQUENCY RESPONSE (-6dB)	41 Hz - 44 kHz	38 Hz - 44 kHz
CROSSOVER FREQUENCY	1.9 kHz	
CROSSOVER TYPE	2nd order LF, 3rd order HF, Bi-Wired, Hard-Wired passive, low loss.	
DRIVER TYPE	165mm (6-1/2 ") magnesium cone LF	2 x 165mm (6-1/2 ") magnesium cone LF
	25mm (1/2 ") magnesium dome HF	
CABINET CONSTRUCTION	High density birch plywood. Internally cross braced and heavily damped	



Super Audio CD / CD Player
SA-10

Digital Integrated Amplifier / Master Clock
AI-10

Bookshelf Speaker System
MG-10

Floorstanding Speaker System
MG-20

ESOTERIC

TEAC ESOTERIC COMPANY
www.teac.co.jp/av/
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www.teac.co.uk/esoteric_main.htm

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English version



ESOTERIC 20th ANNIVERSARY



ESOTERIC's 20th anniversary combo - a new product range enabling ownership for a wider variety of audiophiles.

This new range consists of a Super Audio CD/CD player, digital integrated amplifier and newly developed, high tech magnesium loudspeaker system, each designed for total sound coordination.

Without sacrificing quality, the ESOTERIC "10 Series" provides proprietary technology and premium performance in a newly designed system implementation.



VOSP Mechanism

VOSP (Vertically-aligned Optical Stability Platform), features a specially designed shaft-mounted laser pickup assembly.

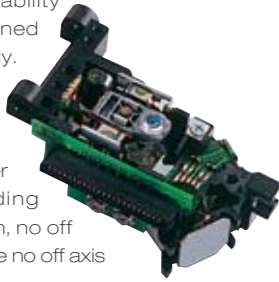
This pickup system evolved from ESOTERIC's P-01 and P-03 transports.

This pickup design ensures that the laser optical axis is always at the center of the data track for optimal reading capability. With VOSP implementation, no off axis error correction is needed because no off axis data tracking is allowed.

2 channel dedicated analog audiooutput / Precise imaging and deeper sound stage

The D/A converter incorporate Cirrus Logic's 24-bit / 192 kHz processing DAC device, model CS4398 in a dual mono configuration.

The analog audio output circuits are also in a dual mono configuration producing exceptionally good channel separation. This 2 channel dedicated circuit design contributes to precise imaging and a deeper sound stage for the SA-10.



Rich and high speed powersupply capability

The large toroidal transformer has a highly efficient power supply capability. This provides electric power to the drive mechanism and audio circuits very quickly, without adding noise or distortion to the internal circuitry.

Word synchronization

The SA-10 features a WORD SYNC input terminal to accept an incoming external WORD clock signal. The input can operate with 44.1/88.2/176.4 kHz clock signals. The unit can also operate using an ESOTERIC original 100 kHz Universal Clock signal. The incoming ultra-stable clock signal produced by external components such as the AI-10 or a master clock generator effectively upgrades the unit, delivering even better performance with greater definition, transparency and imaging.

High rigid chassis construction made with thick aluminum plates

The front panel is made from thick extruded aluminum, top panel (T 5 mm), and side panels (T 4mm), are also made from aluminum. This



highly rigid chassis construction reduces vibrations and resonance. Screws hidden from exterior view, torqued to specific tolerance, help to further reduce vibration and compliment the SA-10 high end cosmetic. The chassis is supported by three metal feet to create an optimally stable platform.

Highly stable center mounted drive mechanism

The disc drive mechanism is mounted in the center of the chassis and the chassis is supported by three metal feet to create an optimally stable platform.

Optional i.LINK audio interface

Optional i.LINK interface provides digital transmission capability of high grade Super Audio CD's multi-channel signals to other i.LINK equipped devices such as a multi-channel D/A converter or A/V surround sound processor.

Slim remote control with illumination keys

Aluminum body remote control fits comfortably in your hands with moderate weight. Keys are illuminated for low light or no light conditions.

Simple, basic, highly musical

Super Audio CD / CD Player

SA-10



ESOTERIC 20th ANNIVERSARY SA-10

Digital amplifier for high purity sound

The AI-10 incorporates ESOTERIC's highly acclaimed D/A converter and clock technology to reproduce high speed and pure sound with exceptional resolution and density. AI-10 also incorporates TI (Texas Instruments), PWM processor (Pulse width modulation), which has an excellent error correction algorithm for signal processing. The AI-10 has highly efficient speaker driving ability and very high resolution thanks to its direct digital amplification throughout the signal path.

The latest MOS-FET for highly efficient speaker driving ability

MOS-FET is a key component in digital amplifiers and the AI-10 features the latest generation having ultra-high speed / high current processing capability. Combined with a large toroidal power supply, speaker driving efficiency is highly optimized.

Large toroidal power supply and capacitors

The large toroidal transformer has a high power handling capacity of 205 VA, supplying electric power very quickly, without adding noise or distortion to internal circuits. The AI-10 uses very large capacitors rated at 36,000 μ F (18,000 μ F x 2 pieces), capacity per channel. With these rich power supply components, the AI-10 has a high power output capacity of 150 Watt + 150 Watt / 8 ohms (max).

Word synchronization

The AI-10 features a WORD SYNC output terminal to work as a master clock generator accurate to +/- 1 ppM. The output signal covers 44.1/88.2/176.4/48/96/192kHz clock signal frequencies. The AI-10 can also output an ESOTERIC original 100 kHz Universal

Clock signal. With the word synchronization function connected to the SA-10 or other source devices, the system will deliver even better performance with improvement in transparency, separation, depth and imaging.

Optional i.LINK (AUDIO) interface

Optional i.LINK interface provides digital transmission capability of high grade Super Audio CD's multi-channel signals to other i.LINK equipped devices such as multi-channel D/A converter or A/V surround sound processor.

Highly functional input / output terminals

- Analog audio input: unbalanced RCA x3 (Inc. phono (MM) / line convertible input x1) / balanced XLR x1
- Digital audio input: coaxial x1 / optical x1
- German made high quality WBT speaker terminal x1



ESOTERIC 20th ANNIVERSARY AI-10

Quality, design elegance

Digital Integrated Amplifier, A/D Converter and Master Clock Sync Generator

AI-10



High sensitivity Magnesium diaphragm - superior acoustic characteristics

The Mg diaphragm features extremely high sensitivity, exceptionally smooth transient response and crystal-clear acoustic transparency. Mg is extremely lightweight and this characteristic is essential for reproducing delicate information from the source without coloration. The Mg diaphragms provide extremely fast acoustic response. Mg has the highest specific intensity and rigidity among industrial metals; therefore, the attack of instruments is very sharp and crystal-clear thanks to ultra fast sonic propagation, about three times faster than conventional paper cones! Mg cones reproduce the subtlest of musical information, providing a deeper and wider sound stage. For additional neutrality, dust caps are also made from the specially sealed Mg alloy.

High internal loss - natural transient characteristics

Mg has a superior vibration absorption quality (higher internal loss), as compared to other conventional metals. This provides outstanding resonance control capability. The use of Mg cones has a very natural sound character, free from metallic or paper resonance. The sequential



input signal reproduction is always kept very clear without any coloration or distortion.

	Mg alloy	AL alloy	Titanium	Paper
Specific gravity (g/cm ³)	1.77	2.72	4.54	0.5
Sonic propagation (m/s)	4880	4950	4950	1650
Internal dissipation	0.005	0.002	0.002	0.04

Data provided by NIPPON KINZOKU May, 2007

Newly designed high power driver components

The high frequency Mg driver incorporates a powerful neodymium magnet equipped with a damped cavity rear chamber to improve low end tweeter response. The woofer unit is driven by a large ferrite magnet, providing exceptional power handling capability and dynamic range. A second magnet is added to the woofer component to apply an optimal magnetic field within the air gap. This design reduces distortion created by magnetic flux.

British craftsmanship - excellent cabinet design

Utilizing proven acoustic benefits of a trapezoidal cabinet design, ESOTERIC's new speaker line bears a hallmark of traditional craftsmanship combined with a more contemporary feel. Specially selected birch (front baffle: T25mm), with American cherry wood veneer is used for finishing the cabinet. The solid American cherry wood side rails provide strength and rigidity, joining the front baffle to the

cabinet resulting in a very high quality finish. The combination of heavily damped materials, comprehensive internal bracing and non-parallel side panels, all help to alleviate the problems associated with standing waves. This custom design also helps the loudspeaker to be free from unwanted resonance.

Carefully designed crossover network and audiophile quality components

All components are high precision, low-loss and thermally stable. For high frequency feed a UK made ICW polypropylene audio grade 'Clarity Cap' capacitor is used. This special cap provides a leading edge sonic consistency; exceptional dynamics, realistic focus, correct timbre and true depth of field. Enlarged and laminated silicone steel core inductors are used to avoid acoustic saturation effects. The network component is hard wired and there is no PCB board to degrade sound quality. Top quality van den Hul silver coated wiring is used throughout for complete integrity of the signal path.

Bi wire speaker terminals plus a GND terminal

The bi wire terminals on the rear panel feature an "earth," or grounding point. With the driver chassis grounded, this proven technology minimizes the effects of RF interference and results in a more transparent midrange.



ESOTERIC and TANNOY corroboration

A new speaker line, incorporating a new technical application of magnesium alloy diaphragms (96% Mg), for individual driver components

This new Mg technology was designed by ESOTERIC's engineering department and final assembly takes place under ESOTERIC supervision in the U.K. by world-renowned British manufacturer, TANNOY Ltd. ESOTERIC's first all magnesium diaphragm, two way loudspeaker line is an integration of proprietary diaphragm technology, newly developed sound engineering expertise and state of the art British assembly techniques.

Bookshelf Speaker System
MG-10



Floor Standing Speaker System
MG-20
shown with STD-MG20 base



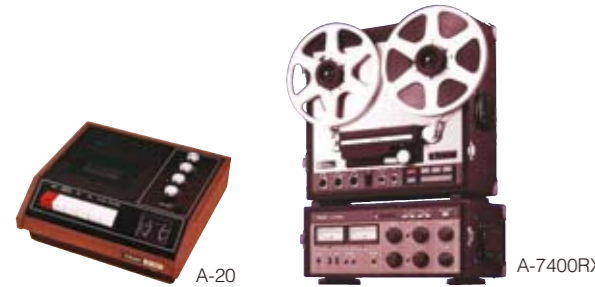


1953

TEAC was originally founded as Tokyo Television Acoustic Company in 1953 (In that year, NHK: Japanese Broadcasting Corporation started television broadcasts in Japan). Later the company changed its name to Tokyo Electro Acoustic Company and then to TEAC. In these early years when "hi-fi" was not a well known word, Tokyo Electro Acoustic Company developed a prototype of a 3-motor open-reel tape transport system. In subsequent years TEAC introduced the world's first open-reel tape deck which had an automatic reverse mechanism. With this innovative product made in Japan, the tape-based hi-fi audio system had begun.

In the late 1960's, TEAC introduced their first hi-fi cassette deck model A-20. With this introduction, TEAC was leading new markets for the evolving cassette tape deck hi-fi era. In following few years, TEAC introduced the A-350 cassette deck featuring the Dolby NR system for the first time in Japan. The next introduction in home-use open-reel tape decks was the A-7400RX which included dbx technology – a technology used in professional studio recording. The introduction of the A-7400RX made a deep impact in the world's hi-fi component market at that time.

In the early 1980's, TEAC developed many cassette deck masterpieces with heavy duty, rigid chassis construction. The ZD-7000 was "state of the art," for this era. TEAC then developed the ZD-5000 CD player incorporating TEAC's proprietary digital to analog converter, the "ZD circuit." TEAC continued to introduce stunning hi-fi technologies which were truly evolutionally and accelerated consumers towards "The next level," of audiophile technology..



A-20

A-7400RX

1987

To bring the highest level of musical experience to demanding audiophiles, TEAC launched the "ESOTERIC" brand as a separate business operation which exclusively engineered and manufactured high end audio products. Esoteric's first introductions included the P-1 / D-1 separate CD player system and the R-1 DAT recorder. The P-1 was Esoteric's first introduction of the truly unique VRDS mechanism (Vibration-free Rigid Disc Clamping System), attracting serious attention among many true audiophiles of that era.



P-1

D-1

R-1

1988

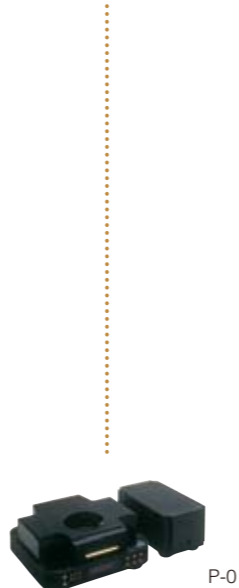
The first decade of ESOTERIC history was a rush of attractive new models; the X-1 CD player, the following X-1s, X-10w, and the upgraded X-10wD. The P-01 CD transport evolved to the P-2, and then to the P-2s. ESOTERIC's "mechatronics," technologies were highly enhanced and accumulated, then fed back to engineering development for more new products such as the P-10, the P-30 and the P-50 CD players.



P-2s / D-2

1997

ESOTERIC introduced another new and superior CD transport, the legendary P-0 as their 10th Anniversary model. The P-0 featured a unique "Lossless sled," optical pickup mechanism, providing extremely accurate data retrieval. This ultimate masterpiece was a winner of many famous Japanese magazine awards and was the pinnacle of the CD player scene at that time



P-0

2003

ESOTERIC introduced the X-01 Super Audio CD / CD player and the UX-1 universal DVD player, both featuring VRDS-NEO mechanisms. (The VRDS-NEO is the next generation of VRDS drive mechanisms compatible with Super Audio CD and DVD formats). The X-01 and UX-1 were built with a resonance-free massive chassis design. Both models are highly acclaimed as pure audio/video source devices, being free from unwanted resonance caused by the high speeds required for Super Audio CD and DVD rotation. Also in 2003, ESOTERIC developed the G-0s Rubidium master clock generator. This master clock technology became another representative high end technology for ESOTERIC.



X-01

UX-1

G-0s

2004

"The world's finest separate digital source playback system, designed to meet the challenge of capturing all the potential of the Super Audio CD format" – the reference P-01 / D-01 combination system was born in 2004. The P-01 transport uses ESOTERIC's highest quality VRDS-NEO mechanism which evolved from the critically acclaimed X-01. To further improve performance, the P-01 is powered by a highly refined and completely separate power supply unit. The D-01 is the world's first monaural D/A converter system designed for ultimate channel separation and fidelity. This reference source system embodies the complete engineering integration of ESOTERIC's digital source technologies. The P-01/D-01 system has become the "benchmark" for digital source systems worldwide.



P-01

D-01

2005

The P-03 / D-03 Super Audio CD separate source system was introduced in 2005. Advanced technology combined the highly acclaimed separate design concepts of the P-01 / D-01, and applied new DSD signal processing technology. The P-03 / D-03 system reproduces highly detailed musical performances surrounded by extreme transparency - right down to the performer's breath -.



P-03

D-03

2006

The P-03 Universal was introduced in the early 2006 to achieve the world's highest level for video source playback. The same year, ESOTERIC developed the "Elegance Series," consisting of three high tech industrial designs: the SZ-1 Super Audio CD/CD player, the UZ-1 universal A/V disc player, and the AZ-1 digital integrated amplifier/master clock combination. ESOTERIC developed a new "VOSP," drive mechanism, and introduced the DV-60 / SA-60 digital disc players. VOSP (Vertically-aligned Optical Stability Platform), mechanism is another of ESOTERIC's innovative "leading edge" solutions for Super Audio CD/CD and DVD playback.



SZ-1

UZ-1

AZ-1

2007

In honor of the 20th anniversary, ESOTERIC introduced the SA-10 Super Audio CD/CD player, the AI-10 digital amplifier/master clock combination, and the MG-10, MG-20 series of Magnesium loudspeakers. Esoteric speakers are truly innovative using all magnesium diaphragms for both tweeter and woofer cones. This 2007 product range enables ownership for a wider variety of audiophiles, without sacrificing quality. For the first time ESOTERIC now provides proprietary technology and premium performance in a full line audio system implementation.



SA-10

AI-10

MG-10

MG-20

History of ESOTERIC

The 20th anniversary of ESOTERIC and its roots: TEAC "Hi-Fi" products have been making a history of high end audio innovations with emotion ...and the history goes on!