

ESOTERIC

Integrated Amplifier F-07



MasterSoundWorks

Audio expression, symphonic beauty, artistic passion, the concert hall's spatial feel, the excitement of the audience. Esoteric's Master Sound Works is an audio product concept that recreates all of the music information in original master recordings with the most state-of-the-art technology available today.

Integrated Amplifier *Basic and Complete*

F-07

Striving for an all-encompassing sense of presence unmatched in its category, the F-07 Integrated Amplifier omits none of the remarkable performance features found in Esoteric's flagship Grandioso separate amps. Richly capturing the full warmth and texture of music, all of the superb powers of expression and audio performance for which the Grandioso line has won renown are now condensed into an integrated form offering exceptional ease of use and broad appeal that more than compensates for its compact proportions.

F SERIES PHILOSOPHY

Full Analogue

Analog amplification circuitry inherited from Esoteric's flagship Grandioso series for consistently superb sound quality.

Fully Integrated

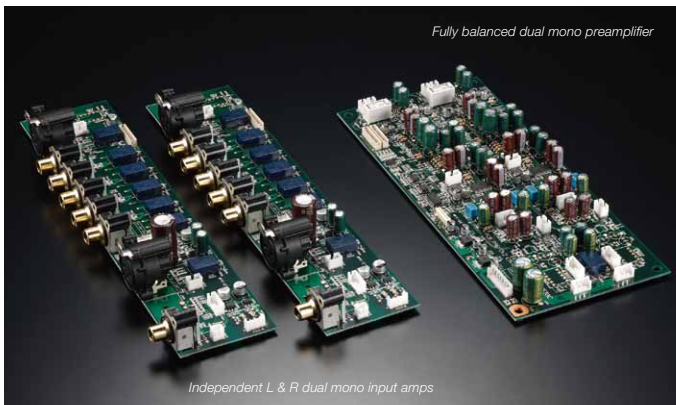
Striving to be a superior example of the integrated amplifier format.

Fundamental

Invested with the finest materials and expertise in pursuit of the essence of amplifier design, while seeking uncommon sophistication and substance in the most basic format.

Functional

Bringing out the integrated amplifier's full potential by providing ample functionality and abundant expandability in its overall refinement.



Fully balanced dual mono preamplifier

Independent L & R dual mono input amps

A Fully Balanced Preamplifier

Virtually impervious to noise, the preamplifier's fully balanced configuration delivers pure and powerful signal amplification at ultra-low impedance.

Dual Monaural by Design

Most clearly reflecting Grandioso thinking, the F-07's dual monaural configuration maintains complete left and right channel independence through all stages, from the preamplifier to the power amplifier's final stage. Outstanding circuit construction also yields excellent channel separation and sound quality to transcend the class.

ESOTERIC-QVCS

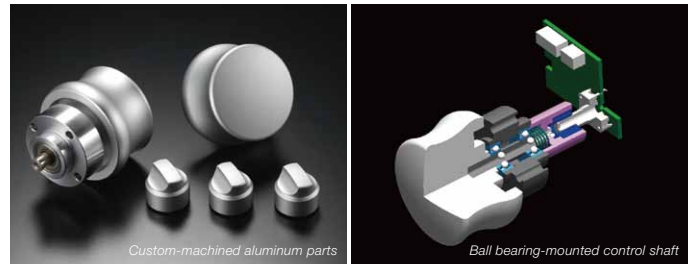
Playing a significant role in the F-07's balanced dual monaural configuration is Esoteric's proprietary Quad Volume Control System (QVCS), which incorporates a total of four precision switched resistor ladder networks operating in unison to independently and electronically control the left and right channels and their positive and negative phases. This system helps maintain superb audio clarity, excellent channel separation and highly accurate phase characteristics. Further, by eliminating all volume control wiring on the audio board, the resulting shorter signal path minimizes deterioration of sound quality while realizing exceptionally low distortion.

Ultra-Low-Noise Logic Control

As a countermeasure against noise, control board is housed in the front panel and electronically isolated from the main preamplifier board.

High-Precision Ball Bearing Control Knobs

Employing the same high-precision bearing mechanisms used in our Grandioso components, the F-07's volume control knob and selector switches offer exceptionally smooth operation with an analog feel free of mechanical play. Sparing no cost, all panel knobs have also been custom-machined from solid aluminum.



Custom-machined aluminum parts

Ball bearing-mounted control shaft

Dual Mono Phonostage Preamp

The dual mono phono equalizer (MM/MC) features independent left and right channel power supplies and independent circuits.

High-Quality Headphone Amplifier

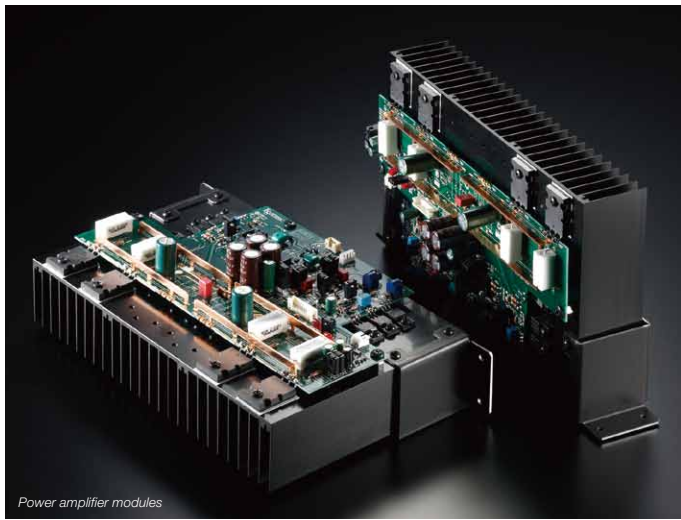
The F-07's powerful headphone amp delivers ample output to effectively drive high-impedance headphones.

2-Band (Treble/Bass) Tone Control

Consisting of four circuits (L/R, +/-) for each band, the system's balanced dual monaural configuration enables the user to adjust tone settings free of any concerns about deterioration of sound quality. Shifting the variable bands more toward the high and low frequency ranges (14kHz/63Hz) permits fine tone adjustment without adversely affecting the original source signal. Fully electronic control also permits fine adjustment of up to ± 12 dB in 0.5dB steps.

PROUDLY MADE IN TOKYO

ESOTERIC



Power amplifier modules



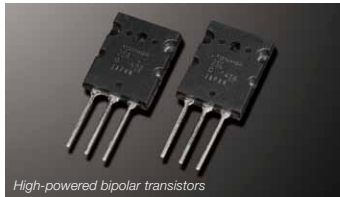
Normal font setting



Large font setting



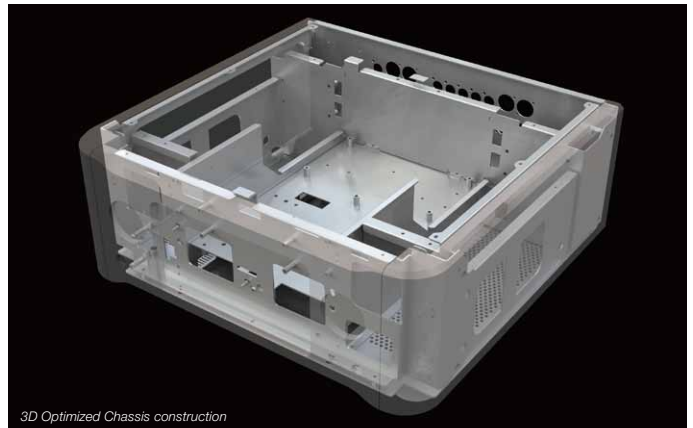
Steel insulators



High-powered bipolar transistors



High-capacity power supply



3D Optimized Chassis construction

Balanced Power Amplifier Input Stage

With its balanced front stage, the power amplification section's clean amplification and low impedance further enhance the dynamic range.

Large-Capacity Custom Power Transformer — The Nucleus of the Finest Power Amplifiers

The power supply features a large-core 633VA custom EI power transformer and 40,000µF block capacitors for each channel in its dual monaural configuration. Large-gauge cable used in all power connections helps minimize impedance to further ensure that every musical dynamic is faithfully reproduced by this outstanding power section.

Low Impedance Output Stage Design

The speaker output section employs eight 1mm-thick high-purity OFC bus bars and MOSFET switching with no mechanical contacts. Coils have also been eliminated from the output stage to minimize impedance and enhance drive capability.

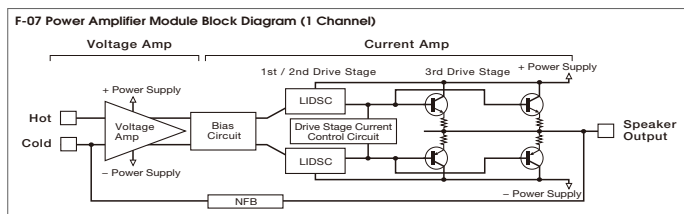
Powerful Bipolar Transistors Deliver 30 Amperes of Instantaneous Peak Output

Large bipolar transistors deliver an outstanding continuous current capacity of 15A, and 30A of instantaneous peak power to ensure accurate reproduction of the most delicate tones.

3-Stage Darlington Circuit with 2 Parallel Push-Pull Configuration + LIDSC

The F-07's amplifier modules inherit the true spirit of our flagship Grandioso line with a three-stage Darlington configuration that utilizes two parallel push-pull sections. Proprietary LIDSC* circuitry reduces the drive section's second stage to final stage output impedance, achieving loudspeaker drive capability closely rivals to that of our separate amplifiers.

* LIDSC: Low Impedance Drive Stage Coupling



3D Optimized Chassis Construction

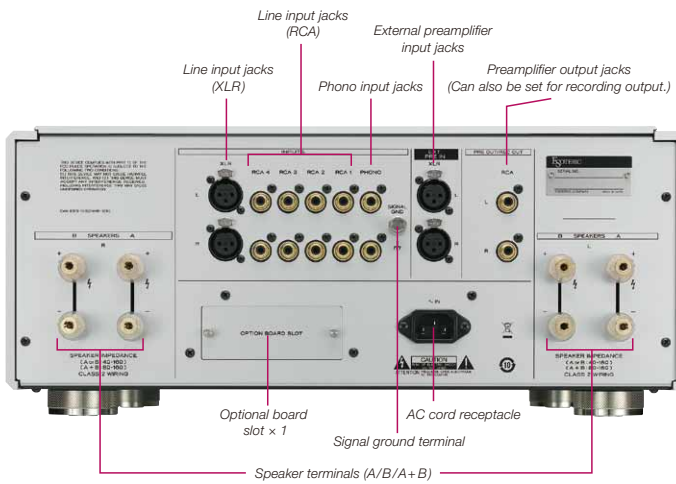
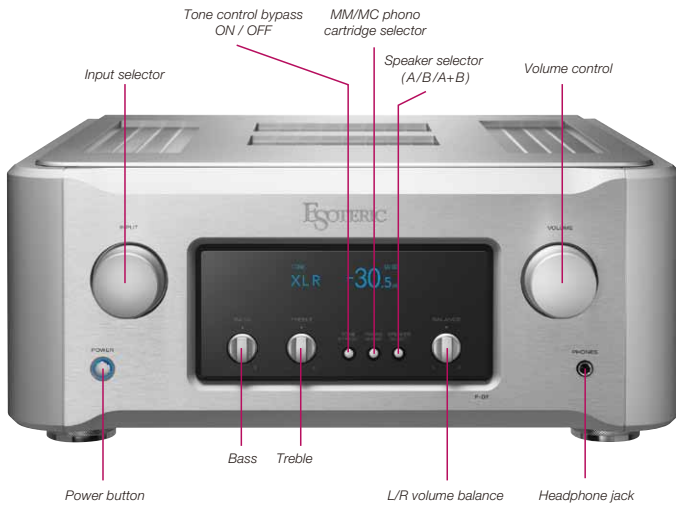
The F-07's robust 3D Optimized Chassis construction gives each circuit block its own dedicated compartment. Interference between circuits is effectively minimized while achieving the shortest possible cable routing. Chassis exteriors are formed of thick aluminum panels manufactured with the same uncompromising design philosophy imbued in Esoteric's separate amplifiers. As a result, their heavy-duty construction tips the scales at a total weight of 27.2kg, exceptional among integrated models. The steel insulators supporting the unit at four points further exemplify the rigorous countermeasures taken to minimize the effects of vibration.

Designed for System Upgrades

The preamplifier and power amplifier sections of the F Series boast the same degree of refinement as Esoteric's separates, and can both be used as standalone devices, or even disabled if not in use. The PRE-out employs a powerful buffer amplifier. System upgrades can also be performed with no compromises in quality, and a card expansion slot facilitates the installation of an optional OP-DAC1 D/A Converter Board, which adds full compatibility with 11.2MHz DSD and 384kHz/32-bit PCM signal inputs.

- Organic EL display (Normal / Large font).
- Two speaker terminal systems (A / B / A+B).
- Independently adjustable input gains (±18dB; 0.5dB steps).
- L/R channel balance.
- Individually selectable phase inversion for each source.
- AV through output (volume bypass) ensures seamless coexistence with AV systems.
- RCA preamp output jack can be switched between PRE Out and REC Out.
- Aluminum body remote controller can also be used to operate Esoteric's SACD players.
- Displayed source device names can be programmed.
- Mute, dimmer and automatic display OFF functions.





Remote Controller (RC-1301)

Specifications

Speaker output

Rated output	100W + 100W (8Ω) 170W + 170W (4Ω)
Total harmonic distortion	0.008% (1kHz, 8Ω, 100W)
Frequency response	10Hz - 100kHz (+0/-3.0 dB at 1W output)
S/N ratio	110 dB (IHF-A)
Damping factor	370
Minimum compatible impedance	4Ω
Speaker output connectors	2 pairs (L/R) (screw type)

Inputs

Input impedance	
XLR, RCA	10kΩ
PHONO (MM)	47kΩ
PHONO (MC)	100Ω
EXT. PRE IN	47kΩ

Outputs

Output impedance	
RCA	100Ω
PRE OUT S/N ratio (at 1V output)	
XLR, RCA input	109 dB
PHONO (MM) input	93 dB
PHONO (MC) input	75 dB
Gain	
Preamplifier	24.5 dB (when VOLUME at maximum)
Power amplifier	29 dB
Tone controls	
BASS	±12 dB (63Hz)
TREBLE	±12 dB (14kHz)

General

Power supply	AC 230V 50Hz AC 120V 60Hz AC 220V 60Hz
External dimensions (W×H×D) (including protrusions)	445×191×468mm (17 5/8"×7 5/8"×18 1/2")
Weight	27.2kg (60lb)

Included accessories

Power cord	x 1
Remote control (RC-1301)	x 1
Batteries (AAA)	x 2
Felt pads	x 4
Owner's manual	x 1
Warranty card	x 1

Optional Equipment

- OP-DAC1 D/A Converter Board

Digital Inputs

- Optical digital audio port x 1 (32-192kHz, 16-24-bit linear PCM)
- RCA terminal (75Ω) x 1 (32-192kHz, 16-24-bit linear PCM)
- USB B port x 1 (32-384kHz, 16-32-bit linear PCM / 2.8, 5.6, 11.2MHz DSD)



PROUDLY MADE IN TOKYO

ESOTERIC

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