Beat: Technology

UREI HEXA 2250 Amplifier + PLF 2020 Preamplifier

The Diamonds of Sound

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USPA NEWS - UREI Audio Technology, located in Calderara di Reno, just a few kilometers from the center of Bologna, is a company specializing in the production of high-quality esoteric amplifiers. Being in the heart of the Motor Valley, the epicenter of the Italian automotive and motorcycle industry, gives the area an aura of technological excellence. This region, famous for hosting automotive excellences like Ferrari, Lamborghini, Pagani, Ducati, and the European Space Agency (ESA) Research Center, can now also boast leadership in the audio sector thanks to UREI Audio Technology. Being close to leading companies in the Motor Valley allows UREI to leverage a rich environment of innovation and advanced engineering. The Motor Valley is not just technology and motors but also a celebration of a unique cultural and industrial history, which continues to innovate and amaze the world. UREI Audio Technology stands out for the artisanal craftsmanship in the construction of esoteric audio equipment, made one by one entirely by hand to guarantee exceptional performance without compromise to experience the emotion of a live concert.

UREI - HEXA 2250 Dual Mono HexFet Amplifier Technical Specifications Description: The high-end esoteric UREI HEXA 2250 power amplifier uses HexFet technology and features a fully "DUAL MONO" construction, including the power transformers. The device has no limitations, except for the protection fuses on the power supply. The cabinet and front panel are made of solid non-magnetic metal, machined with CNC (Computer Numerical Control). The internal support frames and the shielded shell of the transformers are made of non-magnetic stainless steel.

The amplifier offers two types of output connection: a traditional one with 4 pairs of gold-plated banana terminals, also usable in bi-wiring configuration, and a special connectivity through professional "Speakon" connectors from the Swiss company Neutrik, particularly recommended for audio uses. What is a Hexfet? A HEXFET is a type of metal-oxide-semiconductor field-effect transistor (MOSFET) developed by International Rectifier. The HEXFET trademark indicates a power MOSFET with a specific structure that can handle high voltages and currents. HEXFETs offer several advantages in the esoteric audio field, especially when it comes to high-fidelity amplifiers.

Here are some of the main advantages:

High efficiency: HEXFETs are known for their high efficiency, meaning they can handle large amounts of power with minimal energy loss.

Quick response: Thanks to their structure, HEXFETs can provide a quick response to audio signals, reducing distortion and improving sound quality.

Robustness: They are very robust devices and can handle heavy loads without problems, making them ideal for high-power audio applications.

Low distortion: When used correctly, HEXFETs can offer low distortion, which is crucial for achieving high-quality audio reproduction.

Technical Features:

Power per channel:

300W RMS on 2 ohms

200W RMS on 4 ohms

100W RMS on 8 ohms

50W RMS on 16 ohms

Class A function: 30W RMS per channel

Dynamic power: +3dB 200%

Frequency response: 6Hz-200KHz @ −3dB

Power band: 20Hz-20KHz within 0.5dB @ 100W RMS

Signal-to-noise ratio: 118dB (IHF − A)

Sensitivity for Po/MAX: 450mV

Input impedance: 47K/100pF

Slew Rate: 40V/µs

Damping factor: 500

Distortion:

T.H.D.:
I.M.D.:
T.I.M.:
Inputs: gold-plated RCA pins

Outputs (A): SPEAKON connectors from 30A RMS continuous - Rc
Outputs (B): gold-plated banana terminals in bi-wiring configuration

Operating temperature: - 10°C + 80°C

Available power at 230Vca: 1 KW

Average power consumption: 150W

Dimensions (mm): 483 (W) x 170 (H) x 300 (D)

Weight: 28 Kg

UREI PLF 2020-II Dual Mono Line Preamplifier Technical Specifications Description: The PLF 2020-II is a high-end audio preamplifier with DUAL MONO technology and a separate power supply. It uses SOLID STATE circuitry with two line stages employing FET and TRANSISTOR in pure class A. The gain and output impedance of the stages are fully configurable via DIP-SWITCH. Each channel has its own power supply section, perfectly separated, with the power transformer in a separate cabinet made of shielded metal. The power supply is connected to the preamplifier through a shielded multifilar cable and a 12-contact gold-plated Trident connector. A series of LED diodes on the rear panel indicates the position of the front input selector.

Technical Features:

Frequency response: 6Hz-200KHz @ -3dB

Signal-to-Noise Ratio (S/N): 100 dB (all inputs)

Distortion (THD-IMD-TIM):

Input sensitivity 1V/Out: 165 mV (gain set to Medium)

Max output voltage: 14V RMS

Slew Rate/min.: 50V/µS

Output signal: Absolute phase

Gain (selectable via DIP-SWITCH):

Low Value: 4.3 = 12.5 dB

Medium Value: 6 = 15.5 dB

High Value: 10 = 20 dB

Adjustable damping: control on the output impedance of the preamplifier, primarily affecting low frequencies.

Three options to choose from as for gain: Low, Medium, High

Preamplifier dimensions (mm): 130 (W) x 170 (H) x 340 (D) Preamplifier weight: 5 Kg.

Description of the Assembly of the Esoteric Urei Hexa 2250 Power Amplifier

The assembly of the esoteric Urei Hexa 2250 power amplifier is a highly specialized artisanal process aimed at ensuring the highest level of performance. One aspect worth mentioning is that these power amplifiers are entirely hand-built with the highest quality discrete components, using soldering with precious materials. Hand-selected components: Each electronic component, whether it's a HEXFET or a resistor, is meticulously chosen for its optimal characteristics. The goal is to reduce any possible defect that could compromise sound quality.

Unique quality control: Each assembled component is individually tested and calibrated to ensure it meets the required precision standards. This includes verifying operational stability at different temperatures.

Meticulous assembly: Highly qualified technicians carry out the manual assembly, creating soldering with the highest quality materials. The process involves carefully orchestrated steps to ensure amplifier linearity and response, minimizing distortions.

Thorough individual testing: After assembly, each amplifier undergoes a series of intensive operational tests. These tests mimic extreme environmental and operational conditions to ensure the amplifier can maintain optimal performance in any condition.

Final tuning: In this phase, final and specific adjustments are made to achieve the desired frequency response and load stability. This ensures that each amplifier consistently maintains the highest level of performance.

Additionally, this amplifier boasts over twenty years of research and development, an extraordinary commitment aimed at offering the customer not just an amplifier but an unparalleled diamond. Attention to detail and the adoption of advanced technologies make the Urei HEXA 2250 a true engineering masterpiece with esoteric performance, ideal for the most demanding audiophiles. A true technological gem!

Extraordinary Review of the UREI HEXA 2250 After long hours of listening, exploring a wide range of musical genres, we can confidently say that the UREI HEXA 2250 is a power amplifier that embodies the essence of high fidelity. Its dual mono construction and the use of advanced HEXFET technology make it an extraordinary engineering masterpiece. Audiophiles will appreciate its ability to deliver high power while maintaining excellent sound quality, which combines the crystalline precision of transistors with the characteristic harmonic warmth of tubes.

Closing your eyes, you are magically transported to a majestic concert hall where a crescendo of clear and powerful notes envelops you, emerging as if by magic from the air you breathe. Every musical detail is reproduced with impressive clarity: from the vibrant depth of the bass to the purity of the highest tones, from the emotional richness of the voices to the intensity with which each instrument pulses and lives. This high-end amplifier with supreme quality resonates with every emotional chord, creating a sensory ecstasy that sends genuine shivers down your spine. You can hear every movement of the drummer, as if his beats are resonating under your feet, and perceive the musicians' breath as if you were sitting next to them. The three-dimensionality of the sound experience is such that it feels like being in the pulsing heart of the concert, surrounded by pure and passionate energy.

It is a true storm of emotions – excitement, joy, nostalgia, and a sweet melancholy that only live music can evoke. Every note, every meaningful silence, every slightest nuance penetrates your soul, making you one with the music and the present moment. It's not just listening; it's living, feeling, and creating a deep and almost spiritual connection. An experience that transforms a simple listening session into an unexpected and unparalleled emotional journey.

The robust construction with non-magnetic materials, high-quality components, and advanced connectivity options like SPEAKON connectors demonstrate the attention to detail that characterizes this amplifier. The versatility in speaker connection and performance on complex loads make the UREI HEXA 2250 an ideal choice for those seeking the utmost from their audio system.

Furthermore, the extended frequency response and high dynamic power ensure an extraordinary listening experience, capable of engaging even the most demanding audiophiles. The class A configuration up to 30W per channel adds further value to this extraordinary device. Each single amplifier is tested and calibrated one by one with long listening sessions to reach absolute perfection, a level of attention and care that would be impossible with serial assembly.

A Symbiosis of Precision and Warmth The UREI HEXA 2250 is not just about power. The sound quality it offers is a perfect synergy between precision and warmth, capable of reproducing every musical detail with impressive clarity without ever sounding cold or sterile. The amplifier offers dynamics and sound depth that transform every listening session into an engaging and immersive experience.

Robust Construction and Precious Materials Every component of the UREI HEXA 2250 is chosen with the utmost care to ensure durability and reliability. The non-magnetic materials used in the construction reduce interference and improve signal purity. The SPEAKON connectors offer a stable and secure connection for speakers, allowing uncompromised signal transmission.

Versatility and Performance on Complex Loads The versatility in speaker connection makes the UREI HEXA 2250 an extremely flexible amplifier, capable of adapting to a wide range of configurations and audio needs. Its performance on complex loads demonstrates the power and precision with which it can handle even the most demanding speakers, always ensuring clear and powerful sound.

Conclusion In summary, the UREI HEXA 2250 is an amplifier that not only meets but exceeds expectations, representing an excellent choice for anyone desiring a HI-END audio system capable of offering the best in sound quality and reliability. The combination of artisanal construction, highest quality components, and extraordinary performance makes this amplifier a true masterpiece of audio engineering.

Here's the information you provided:

UREI Audio Technology Address: Via Achille Grandi 7, 40012 Calderara di Reno, Bologna, Motorvalley, Italy Phone: +39 051 722310
Email: info@fotoredagency.com

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483 Green Lanes
UK, London N13NV 4BS
contact (at) unitedpressagency.com
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