USER GUIDE

SHUNYATA RESEARCH

THANK YOU!

Congratulations on your purchase of the Shunyata Research EIGER. Shunyata Research power products are used by many of the finest recording studios, mastering engineers, recording artists and electronics manufacturers worldwide.

Chances are that some of the music you listen to and the equipment that you own was produced using the Shunyata Research products as part of the reference system or mastering system.

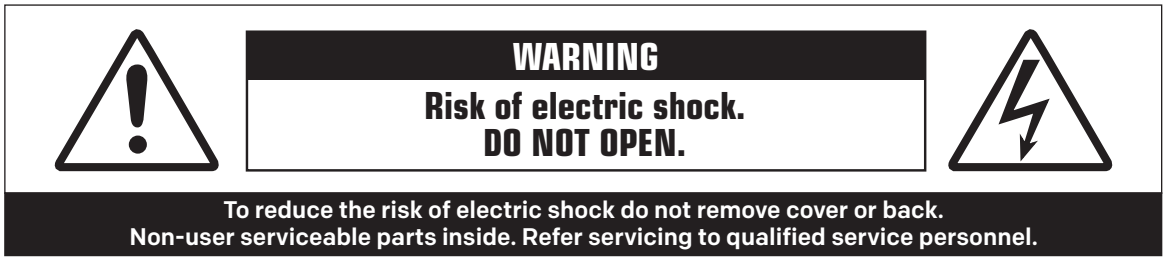
Thank you for choosing us to be a part of your system.

Caelin Gabriel
President

IMPORTANT SAFETY INFORMATION

WARNING: POTENTIALLY LETHAL VOLTAGES INSIDE!

THERE ARE NO USER-SERVICEABLE PARTS INSIDE. REFER ALL SERVICE TO SHUNYATA RESEARCH SERVICE DEPARTMENT (or an Authorized Distributor).



CHECK VOLTAGE RATING
Verify the maximum voltage rating listed on the side of the box and on the unit before applying power.

WATER
This unit is NOT water proof. DO NOT submerge unit in water or any other fluid. DO NOT operate unit in an environment of water condensation. DO NOT operate unit with standing water on the floor.

INPUT POWER REQUIREMENTS
This unit requires a properly installed AC Mains power connection. Ensure that the AC polarity is correct and that a safety ground is present. Do NOT operate this unit with a cable that has the ground pin disconnected. Do NOT operate this unit with a cheater plug that disables the safety ground connection. ONLY operate this unit with an AC outlet that has a safety ground properly connected.

CRYOGENIC TREATMENTS & BURN-IN DEVICES
This unit has been treated with KPIP™, a proprietary process developed by Shunyata Research. DO NOT connect this unit to a burn-in device, as doing so will degrade performance and sound quality.

DO NOT cryogenically treat Shunyata Research products. Cryogenic treatment will damage plastic connectors and degrade insulation, shortening the life of the product. **CRYOGENIC TREATMENTS WILL VOID YOUR WARRANTY.**

READ ALL WARNINGS *and* **INSTRUCTIONS BEFORE OPERATING THIS UNIT**

UNPACKING

KEEP PACKING MATERIALS
Keep all the packing materials. If you need to ship the unit, you must use the original boxes and protective inserts. Shipping without the original materials will void the warranty and you may not be entitled to claim shipping insurance losses if the unit was improperly packed!

If your packing materials are missing or damaged, contact Shunyata Research Customer Service for replacements.

DO NOT plug in the unit until you have read the complete instructions!

WHAT'S IN THE BOX

- EIGER 6/T
- Certified Warranty Card

PRODUCT INFORMATION

The EIGER's tower form factor is uniquely vertically oriented with a narrow front profile allowing it to be placed alongside an audio rack without taking up valuable shelf space. The close proximity to the audio equipment allows for shorter and tidier AC power cable routing.

The EIGER features patented technologies and proprietary components that are simply not available in other products. QR/BB™ technology, a non-current-limiting electromagnetic breaker and massive internal wiring allow it to power entire systems including high-powered amplifiers while its proprietary CCI™ medical-grade filters reduce noise by an astounding –50db at 1 MHz.

TECHNOLOGY and FEATURES

DTCD® DESIGNED *(Dynamic Transient Current Delivery)*
The EIGER was designed using Shunyata Research's DTCD® analyzer. DTCD® Analysis measures instantaneous current through extremely low-impedance electrical conductors and contacts. Shunyata Research uses it to optimize the design and performance of our power conditioners and power cabling.

CCI™ NOISE REDUCTION

Traditional power conditioners are designed to block incoming noise from outside the home but do not address the noise that is generated by the electronic components themselves. In fact, most conditioners reflect noise back into other components connected to the power conditioner. CCI™ (*Component-to-Component Interference*) is one of the most significant but often overlooked aspects to power system performance. The CCI™ filter consists of a proprietary multi-stage filter that reduces electrical noise and power supply generated interference.

NIC™ AND QR/BB™ NOISE REDUCTION

The NIC™ (*Noise Isolation Chamber*) is a patented technology that reduces high frequency power line noise. NICs™ use a non-reactive *ferroelectric* substance that actually absorbs high frequency noise. This allows EIGER power distributors to reduce noise without any of the negatives associated with conventional power conditioner designs. QR/BB™ is a patented technology that improves system dynamics, especially when used with high powered amplifiers.

~ NIC™ Patent US 8,658,892, QR/BB™ US 10,031,536 ~

ZONES OF ISOLATION

The EIGER features three zones of isolation. The EIGER is configured in such a way that each duplex is individually isolated. This design allows for significant reduction of CCI™ regardless of system configuration.

ArNi® CONDUCTORS

Shunyata Research has developed a proprietary line of ArNi® conductors. They are made with certified OFE C10100 (*Certified ASTM F68*) copper. The wire strands are arrayed in a proprietary "hollow tube" VTX™ geometry, which reduces skin effects. ArNi® conductors are then treated with Shunyata Research's exclusive *Kinetic Phase Inversion Process* (*KPIP™*) for a period of 4 days.

HIGH CURRENT CAPABILITY

The EIGER series power distributors have a 20-Amp continuous rating, ensuring unfettered power delivery to entire systems, including high-powered amplifiers. Advanced electromagnetic breakers combined with massive 8-gauge ArNi® wiring maximize dynamic contrast and bass impact.

HYDRAULIC ELECTROMAGNETIC BREAKER

Common power conditioners use fuses or thermal breakers for over-current protection. When heavily loaded, those devices cause voltage drops, increased contact impedance, thermal noise, excessive heat generation, and current-limiting effects. The EIGER uses a more advanced solution called a hydraulic electromagnetic breaker that can operate right up to the maximum current rating without the limitations of fuses or thermal breakers.

HIGH-QUALITY OUTLETS

The EIGER uses premium Hubbell outlets that use a triple-wipe contact system and have broad contact areas to grip a plug from three different sides, providing superior electrical integrity. Hubbell outlets feature a solid brass back-strap that ensures a reliable ground connection that may reduce noise and hum. The European model EIGER include mains sockets that feature copper alloy contacts designed to accept large-gauge conductors.

CABLE CRADLE SUPPORT SYSTEM

The EIGER includes Shunyata Research's unique solution for the problem of heavy high-end power cables. The Cable Cradle supports the weight of the power cables, preventing them from pulling away from the outlet. This system is designed to ensure reliable and secure electrical connections. The Cable Cradle is only available on US and AS models.

VIBRATION MANAGEMENT

Mechanical vibration can be very destructive to system performance. The EIGER was designed from its inception to include advanced forms of vibration control that improve the recovery of subtle musical detail and nuance. All chassis panels and internal structures are treated with vibration-dampening panels. Each outlet is isolated from the chassis with a vibration-dampening gasket that reduces vibration conducted through the AC cables. All internal modules, filters, and electronics are encapsulated in a vibration-absorbent compound.

VIBRATION-DAMPENING FOOTER

The EIGER comes standard with Shunyata Research's vibration-dampening footers. Power distributors react very similarly to amplifiers in relationship to floor-borne vibration. Shunyata Research's footers were specifically designed to reduce vibration from the supporting platform.

KPIP™ "BLACKBIRD" PROCESSOR

Each EIGER is treated with Shunyata Research's proprietary Kinetic Phase Inversion Process (KPIP™). The KPIP™ dramatically reduces burn-in time and significantly improves sonic performance.

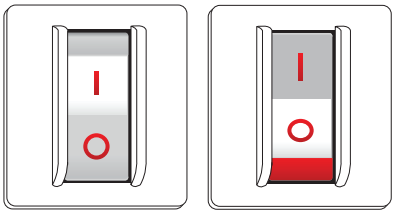
CRYOGENIC COMPONENTS

Many of the electrical components in the EIGER are treated in Shunyata Research's own advanced computer-controlled cryogenics lab. Further cryogenic treatment of the unit is strongly discouraged, and will void your warranty.

CONNECTIONS AND POWER UP

THE ELECTROMAGNETIC BREAKER

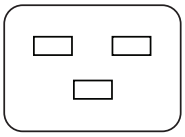
This is NOT a master ON/OFF switch. The breaker is designed to protect the unit and the components in the event of an over-current event. You should NOT use it to turn your system ON and OFF.



OFF POSITION ON POSITION

THE POWER CORD

This device requires an IEC C19 terminated power cord. ONLY use a power cord that is rated for 16/20 A of continuous current.



IEC C19

POWER UP SEQUENCE

1. Put the breaker in the OFF position
2. Plug the C19 power cord into the unit's inlet
3. Ensure all electronic components are in the OFF position
4. Plug each component into an available outlet
5. Put the breaker in the ON position
6. Turn each of the components on

Wait approximately 5 seconds between each component.

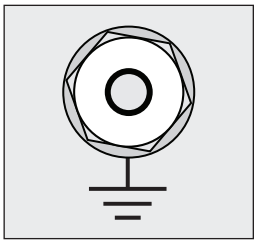
POWER DOWN AND DISCONNECTION

WARNING: DO NOT PULL THE PLUG
DO NOT ever pull the unit's power cord from the wall outlet while the system is operating. This unit carries very high currents and pulling the cord may cause a large arc that may damage the power cord contacts, the wall outlet and potentially the unit's inlet connector.

To remove the unit from the system, reverse the previous procedure.
- Turn OFF each connected component
- Turn the unit's electromagnetic breaker to the OFF position
- Unplug each of the power cords attached to the unit
- Unplug the unit's power cord from the wall outlet

CHASSIS GROUNDING SYSTEM

The EIGER includes dual CGS grounding terminals that provide central grounding points for electronic components in the system. Connecting component chassis to a common ground point may eliminate system hum caused by ground loops. These terminals may also be used to interconnect the chassis grounds of several power distributors.



PERFORMANCE OPTIMIZATION

SETTLING TIME

The EIGER is constructed using massive wiring and heavy-duty contacts throughout. It is treated with Shunyata Research's exclusive KPIP™. This significantly reduces the amount of time required for *burn-in*. However, the unit will improve in performance over a period of time. Allow several days of continuous power, with a load, to achieve optimal performance. We recommend connecting a 100-watt lamp or a small fan to accelerate the settling period.

MOUNTING PLATFORMS

Ideally the EIGER should be placed on a proper shelf, amp stand or solid platform. A heavy plank of hardwood or a granite slab also works well.

FOOTERS

The EIGER includes Shunyata Research's isolation footer specifically designed to reduce vibration from the supporting platform. You may wish to experiment with other more expensive products. The footers may, optionally, be upgraded to SSF-38 stainless steel footers. After researching multiple forms of energy dissipation methods, Shunyata Research developed the SSF-38 to provide the performance characteristics of an expensive after-market isolator but at a fraction of the cost.

AC WALL SOCKETS

It is strongly recommended that you replace the wall outlet with a high-quality commercial-grade unit. A standard wall outlet is usually not ideal for high current applications. There are many audiophile-grade outlets that may be plated with a variety of metals including silver, gold, rhodium and others. Our experience is that these do not provide significant improvement over a quality commercial-grade outlet. Shunyata Research strongly discourages the use of rhodium-plated outlets with its products. Shunyata Research recommends the Hubbell model 5362 outlet for best performance.

CONTACT ENHANCEMENT FLUIDS

Contact fluids, pastes and gels are NOT recommended for use with this device. Many of these types of products leave a residue that can contaminate or damage the contact metals over a period of time. The products labeled as silver-bearing grease or silver impregnated silicon are particularly harmful. Some of these are difficult or impossible to remove. Damage caused by these products will void your warranty! Never attempt to clean the contacts inside the outlets. If you wish to clean the external contacts, use CAIG DeoxIT® and DeoxIT® GOLD.

OTHER POWER COMPONENTS

Using Shunyata Research power distributors in conjunction with other power distributors, conditioners, or regenerators is strongly discouraged. Connecting power conditioners in series usually gives unpredictable or poor results. Conditioners and regenerators can be highly reactive and may degrade the DTCD® and the CCI™ advantages built into the EIGER.

SPECIFICATIONS

US: United States model // AS: Asian model // EU: European model

MAXIMUM VOLTAGE
- 90 - 125 VAC r.m.s. unregulated (US)
- 220 - 240 VAC r.m.s. unregulated (EU, AS)

INPUT CURRENT RATINGS
- Input current maximum (US): 20 A
- Input current maximum (EU): 16 A
- Peak instantaneous current @ 10 ms: >1000 A

OUTPUT CURRENT RATINGS
- Zone 1 output current max: 20 A
- Zone 2 output current max: 20 A
- Zone 3 output current max: 20 A

TRANSIENT SUPPRESSION
- Maximum transient pulse: 40,000 Amps @ 8/50 µs

OVER-CURRENT PROTECTION
- Hydraulic electromagnetic breaker

WIRING SYSTEM
- 10 & 8 gauge ArNi® conductors
- VTX™ conductor geometry
- OFE C10100 copper
- Ratings: 600 VAC 105° C

NOISE SUPPRESSION
- Input to Output (100 kHz - 30 MHz): > 50 dB reduction
- Zone to Zone (100 kHz - 30 MHz): > 30 dB reduction

NOISE REDUCTION TECHNOLOGY
- NIC™ Noise Isolation Chambers (patented)
- QR/BB™ Module (patented)
- Trident Transient Protection Module
- CCI™ v4 Noise Filters (3)
- KPIP™ Process

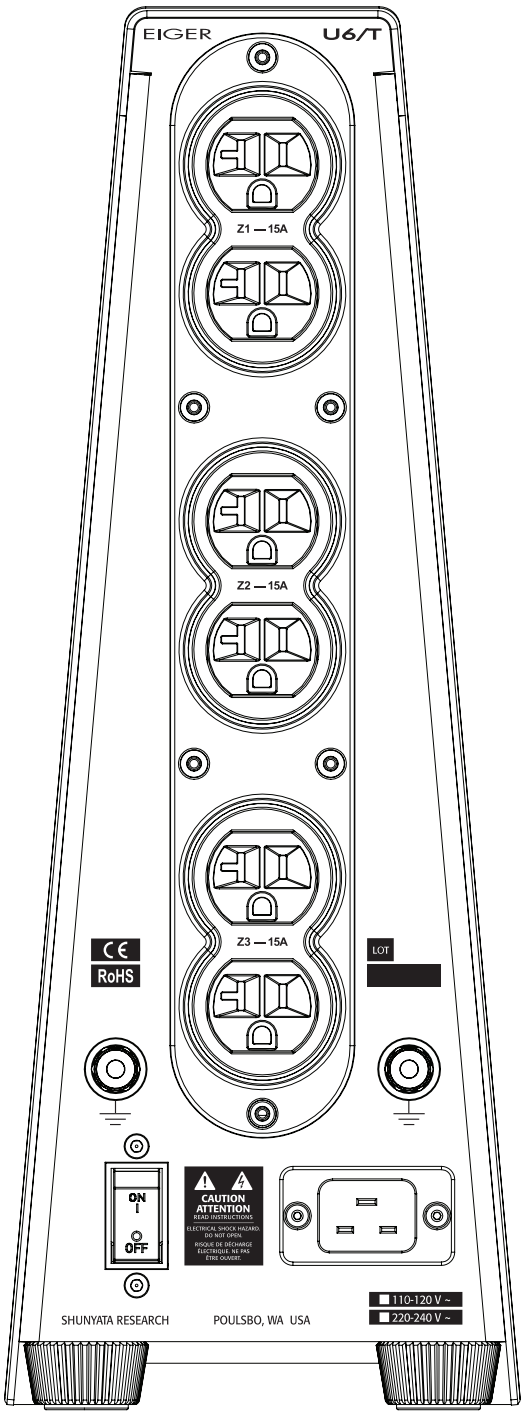
OUTLETS & CONNECTORS
- Input connector: IEC-C19R
- Outlets (US): 6 NEMA 5-20P
- Outlets (EU): 6 CEE 7/3

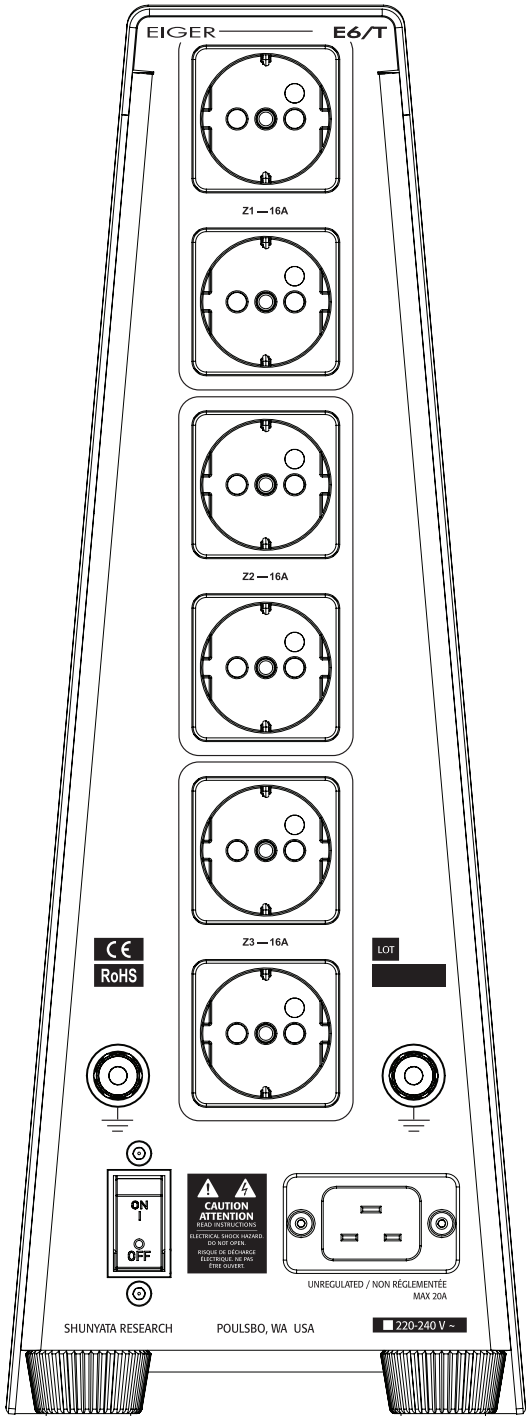
VIBRATION CONTROL
- Vibration-dampening panels (internal)
- AC outlet dampening gaskets
- Shunyata Isolation Footer

CONSTRUCTION
- Powder coated steel chassis — 16 gauge
- Anodized aluminum faceplate

DIMENSIONS

Width: 6.2 inches (15.75 cm)
Depth: 9.1 inches (13.12 cm)
Height: 16.7 inches (42.42 cm)
Weight: 12.7 lbs (5.75 kg)





US: United States model

EU: Euro model

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