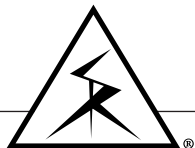


# EIGER-X





## THANK YOU!

Congratulations on your purchase of the Shunyata Research Eiger-X. 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 Shunyata Research products as part of a 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).

	<b>WARNING</b> <b>Risk of electric shock.</b> <b>DO NOT OPEN.</b>	
<b>To reduce the risk of electric shock do not remove cover or back.</b> <b>Non-user serviceable parts inside. Refer servicing to qualified service personnel.</b>		

### 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. DO NOT operate this unit without a grounded outlet.

### 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® or DeoxIT® GOLD.

### CRYOGENIC TREATMENTS & BURN-IN DEVICES

This unit has been treated with KPIP v2™, 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 TREATMENT 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!**

## PRODUCT INFORMATION

The Eiger-X'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-X 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-X 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.

### **TAPc**

TAPc (Transverse Axial Polarizer) is a patent-pending technology that couples to the electromagnetic field surrounding the electrical conductors. It acts as a polarizer, passively reducing electromagnetic distortion that presents as a glare in sound or images. The sonic impact of TAPc is unmistakable: a profound drop in perceived noise floor, effortlessly portrayed dynamics, and an exceptional rendering of timing and coherency. These improvements are unique to TAPc and remain unmatched by any competing technologies. Even casual listeners often recognize the effect immediately, and results are consistently repeatable across a wide range of components and systems. Essentially, the TAPc modules act as force multipliers, elevating the listening experience to levels many would not have thought possible.

### **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-X power distributors to reduce noise without any of the negatives associated with conventional power conditioner designs. Patented QR/BB™ technology dramatically reduces the sense of dynamic compression often heard when an amplifier is connected to a conventional power conditioner. Dynamics are actually improved when an amplifier is connected to the Eiger-X even when compared to a direct connection to the wall outlet. [US Patents: 10,031,536 B2 and 8,658,892]

### **GPNR (Ground Plane Noise Reduction)**

GPNR is an advanced ground noise filtering system within the Eiger-X, engineered to reduce high-frequency interference that pollutes the ground plane of audio and video systems. GPNR provides continuous ground-plane noise reduction for all connected components, with no setup required. Components connected via an external ground cable to the CGS (Chassis Grounding System) terminal can access even higher performance by providing a lower-impedance path to the Eiger-X's GPNR filtration system. This enhances noise dissipation beyond what is possible through the standard AC ground path alone. By cleaning the system's ground plane, GPNR dramatically lowers the system's noise floor, preserving clarity, enhancing timing precision, and revealing subtle musical and spatial detail.

### **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.

### **ZONES OF ISOLATION**

Eiger-X features three dedicated zones of isolation that significantly reduce CCI™ (*Component-to-Component Interference*), allowing digital and analog components to operate with minimal cross-contamination. This intelligent layout supports a wide variety of system configurations, preserving sonic and visual fidelity by isolating the noise profile of each component group.

### **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 v2™)* for a period of 4 days.

### **HIGH CURRENT CAPABILITY**

The Eiger-X 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-X 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-X 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-X include mains sockets that feature copper alloy contacts designed to accept large-gauge conductors.

### **CABLE CRADLE SUPPORT SYSTEM**

The Eiger-X 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-X 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-X 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 v2™**

KPIP v2™ is a proprietary preconditioning process that permanently enhances the performance of power distributors by refining conductor metals at the atomic level. Each Eiger-X power distributor undergoes four days of this advanced treatment, which dramatically reduces burn-in time and delivers a relaxed life-like presentation. When compared to the original process, KPIP v2™ represents a dramatic performance increase on par with a component-level upgrade.

### **CRYOGENIC COMPONENTS**

Many of the electrical components in the Eiger-X 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.

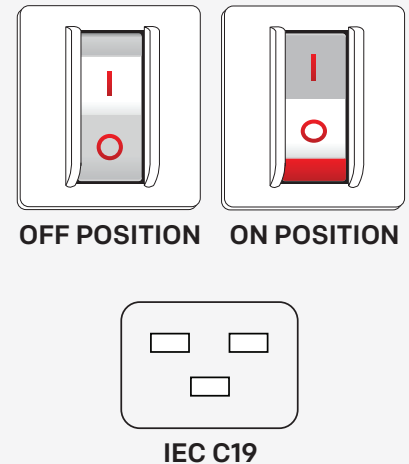
### THE POWER CORD

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

### 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-X includes two Chassis Grounding System (CGS) terminals that serve as centralized grounding points for electronic components in the system. Connecting component chassis to this common ground can eliminate system hum caused by ground loops. The CGS terminals also provide the optimal connection point when tying grounds between multiple power distributors or integrating an Altaira grounding hub into the system.



## PERFORMANCE OPTIMIZATION

### SETTLING TIME

The Eiger-X is constructed using massive wiring and heavy-duty contacts throughout. It is treated with Shunyata Research's exclusive KPIP v2™. 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-X 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-X 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 are 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. We recommend the Hubbell model 5362 SPEC grade outlet as an accessible option for improved system performance.

**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-X.

**SPECIFICATIONS**

**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,AS): 20A
- Input current maximum (EU): 16A
- Peak instantaneous current @ 10 ms: >1000A

**OUTPUT CURRENT RATINGS**

- Max current/outlet (US/AS): 15A
- Max current/socket (EU): 16A

**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):  
> 60 dB reduction

**TECHNOLOGY**

- TAPc (patent-pending)
- NIC™ Noise Isolation Chambers (patented)
- QR/BB™ Module (patented)
- GPNR
- KPIP v2™ Processing: 4 days

**ISOLATION ZONES**

- 3 zones

**OUTLETS & CONNECTORS**

- Input connector: IEC-C19R
- Outlets (US): 6 NEMA 5-20R
- Outlets (EU): 6 CEE 7/3

**VIBRATION CONTROL**

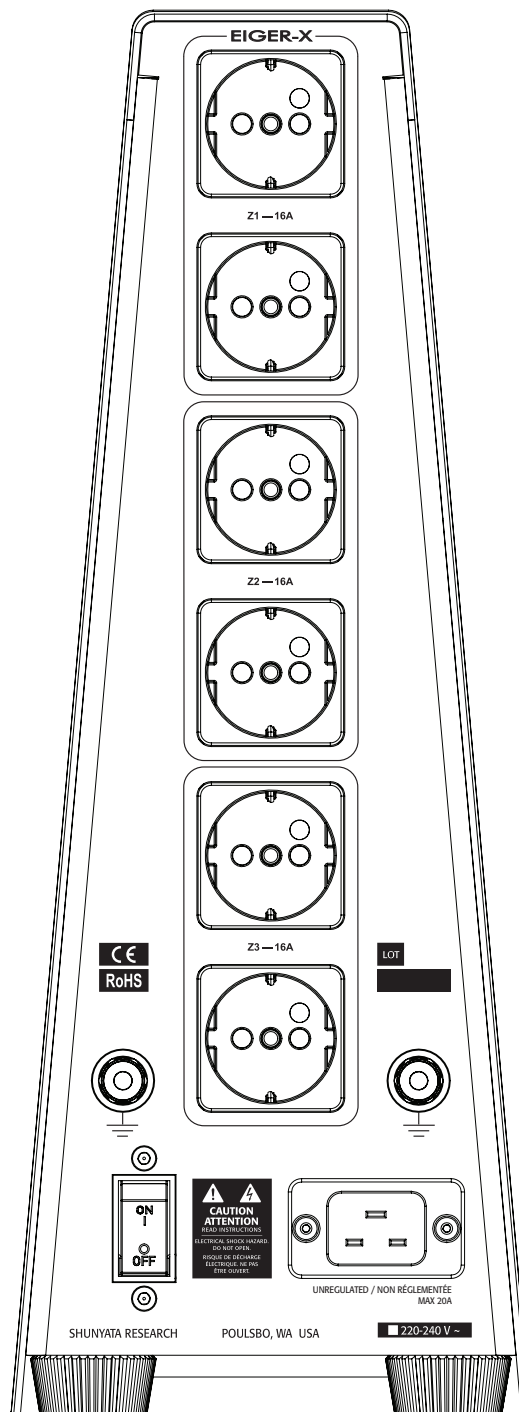
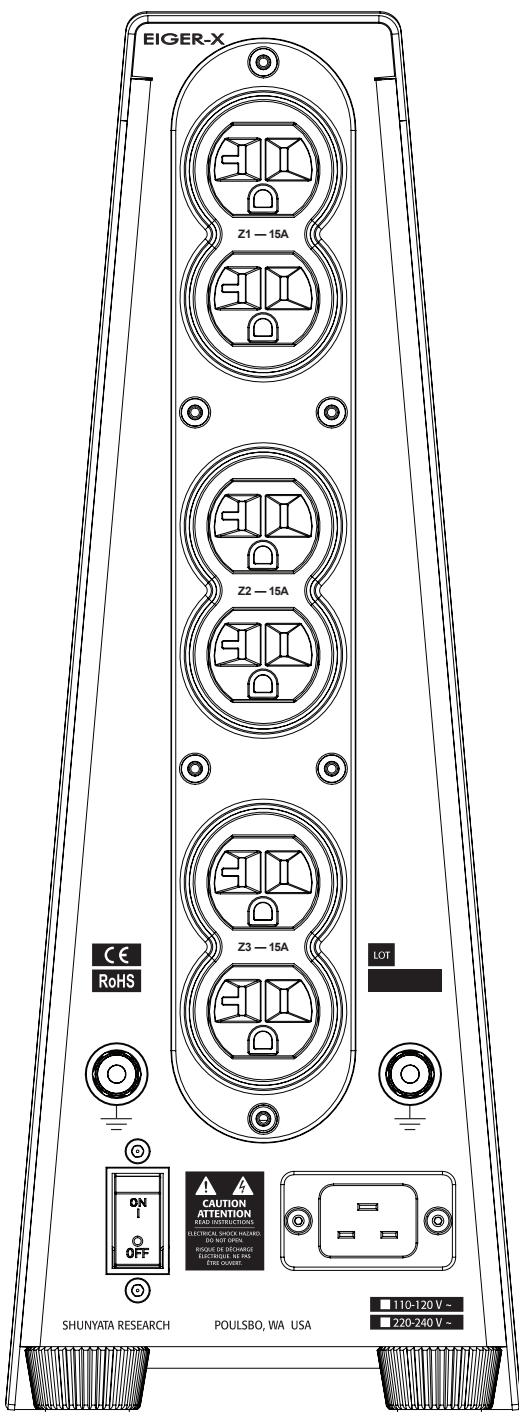
- Vibration-dampening panels (internal)
- AC outlet dampening gaskets (US/AS only)
- Shunyata Isolation Footer

**CONSTRUCTION**

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

**DIMENSIONS**

Width: 6.2 inches (15.75 cm)  
 Depth: 9.1 inches (23.11 cm)  
 Height: 16.7 inches (42.42 cm)  
 Weight: 12.7 lbs (5.75 kg)

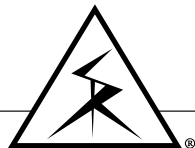


US/AS

EU

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