

EQUATORIAL AUDIO

# The Equatorial Collection

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Complete Product Catalog | 96 Products | 11 Categories

2025 Edition

0.0000deg Latitude | Quito, Ecuador



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# FOREWORD

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Dear Fellow Seeker of Acoustic Truth,

When I founded Equatorial Audio in 2019, I had one conviction: that the systematic distortion introduced by the Earth's magnetic field into every audio conductor manufactured outside the equatorial plane was not only measurable, but audible. The scientific establishment disagreed. The audio industry was indifferent. Even my colleagues at the University of Quito suggested, politely, that I might be overthinking things.

They were wrong.

Five years later, Equatorial Audio stands as the world's only manufacturer of magnetically neutral audio products. Our facility at 0.0000 degrees latitude -- verified by three independent geodetic surveys -- produces conductors, components, and accessories that achieve what no amount of shielding, twisting, or post-processing can replicate: the complete elimination of hemispheric bias at the point of origin.

This catalog represents our complete product line. Ninety-six products across eleven categories, each designed to address a specific aspect of the magnetic neutrality problem. From our entry-level Tropic cables to the Zero-Point NVL Rack -- a 72-accelerator AI compute cluster that ships on a flatbed with a liquid nitrogen tanker escort -- every product in these pages reflects our commitment to a single, uncompromising principle: your signal deserves to travel through a medium that has never been contaminated by latitude.

The measurements speak for themselves. The testimonials confirm what the measurements suggest. And the awards -- well, the awards speak to what happens when an industry finally begins to understand what it has been missing.

Welcome to the equator.

**Dr. Magnus Ferro**  
**Chief Acoustic Architect**  
**Equatorial Audio, Quito, Ecuador**  
**0.0000 degrees N**



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# THE EQUATORIAL AUDIO STORY

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## **THE DISCOVERY**

In the summer of 2018, Dr. Magnus Ferro -- then a junior researcher in the Department of Materials Science at the Universidad Central del Ecuador -- noticed an anomaly in his copper grain orientation data. Samples drawn in Quito exhibited a crystalline isotropy that samples from Santiago, Shanghai, and Stockholm did not. The difference was subtle: a 0.003-degree deviation in dominant grain axis alignment, measurable only with a scanning electron microscope and a very good understanding of what you were looking for. But it was consistent. Every Quito sample showed the same perfect isotropy. Every non-equatorial sample showed the same directional bias.

Ferro spent six months ruling out instrumentation error, batch variation, alloy composition, and statistical noise. When none of these explained the pattern, he was left with the only remaining variable: latitude. The copper drawn at the equator was magnetically neutral. The copper drawn everywhere else was not.

## **THE FOUNDING**

Equatorial Audio was incorporated in January 2019 in a 200-square-meter workshop on the outskirts of Quito, approximately 11 meters south of the geodetically verified equatorial line. Dr. Ferro, working with a single technician and a second-hand cable drawing machine, produced the first batch of Equatorial-Grade OFC conductor. The initial product was a single model of RCA interconnect, hand-terminated and sold through a now-defunct audiophile forum.

Within three months, the forum post had been viewed 140,000 times. Within six months, the first batch was sold out. Within a year, Equatorial Audio had moved to a purpose-built 2,000-square-meter facility at precisely 0.0000 degrees latitude -- a location verified by the Instituto Geografico Militar de Ecuador, the United States National Geodetic Survey, and a private surveying firm retained by a skeptical reviewer from Stereophile magazine. All three surveys agreed: the facility sits within 0.3 meters of the true equatorial plane.

## **THE EQUATORIAL SPLICE**

The Equatorial Splice is Equatorial Audio's signature manufacturing process and the subject of two internal research papers. The principle is elegant: rather than drawing a conductor from a single hemisphere's copper (which carries that hemisphere's magnetic bias), the Equatorial Splice joins two conductors -- one drawn from Northern Hemisphere copper, one from Southern Hemisphere copper -- at a precise midpoint splice performed at the equator.

The splice is performed aboard the Equatorial Audio research vessel EAV Neutrality, which positions itself at 0.0000 degrees latitude in the Pacific Ocean, 28 kilometers west of the Ecuadorian coast. The two conductor ends are brought together using laser-aligned precision clamps, and a plasma arc weld fuses them at the molecular level. The result is a conductor whose Northern-biased grain structure transitions seamlessly through a magnetically neutral splice zone into a Southern-biased grain structure. The opposing biases cancel. The conductor achieves true magnetic neutrality across its entire length.

The process is expensive. The vessel charter, crew, plasma welding equipment, and laser alignment system cost approximately \$14,000 per splice session. This is why Equatorial Audio products cost what they cost. And it is why they sound like nothing else.

## **THE FACILITY**

The current Equatorial Audio headquarters occupies a 4,800-square-meter complex at the verified equatorial line outside Quito, Ecuador, at an elevation of 2,850 meters above sea level. The facility includes:

A conductor drawing workshop with custom-built drawing machines calibrated to equatorial magnetic field conditions. A cryogenic treatment chamber capable of sustained operation at minus 196 degrees Celsius for 72-hour treatment cycles. A Class 100 cleanroom for connector termination. An anechoic measurement chamber with background noise below 12 dBA. A mu-metal-lined shielding test room with residual field below 0.1 nanotesla. And a reference listening room with acoustics designed by an unnamed European consultant who requested anonymity after learning what the room would be used for.

The facility operates on solar power supplemented by a dedicated geothermal tap -- Quito sits on the Pacific Ring of Fire, and the volcanic activity that makes the region seismically interesting also provides abundant geothermal energy. The entire facility is surrounded by a 3-meter-deep copper grounding ring connected to 24 grounding rods driven into the volcanic soil, creating an equipotential ground plane that extends beneath every room in the complex.



## TIMELINE

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2018: Dr. Ferro identifies hemispheric bias in copper grain orientation data at Universidad Central del Ecuador.

2019: Equatorial Audio incorporated. First product: Tropic Interconnect. Facility: 200 sq m workshop.

2020: Move to purpose-built 2,000 sq m facility at verified 0.0000 degrees. Launch Meridian and Equinox tiers. First Equatorial Splice performed aboard EAV Neutrality.

2021: Zero-Point tier introduced. Stereophile review. Cryogenic treatment program established. Product line expands to 40 products.

2022: Turntable and headphone categories launched. Mu-metal shielding program. Facility expanded to 4,800 sq m.

2023: Superconducting cable line announced. Research vessel EAV Neutrality upgraded. Digital and network cable lines launched. Product count reaches 70.

2024: Zero Kelvin Reference System unveiled at Munich High End. Product catalog reaches 96 products across 11 categories. Equatorial Compute division launches with GPU, workstation, accelerator, and rack products. First annual magnetic shielding audit completed.

2025: This catalog.



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# AWARDS & RECOGNITION

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Equatorial Audio products have received recognition from the world's leading audio publications. The following awards represent the industry's acknowledgment of what magnetic neutrality makes possible.



### Product of the Decade

The Absolute Sound | Equinox Interconnect

*"We have tested thousands of cables over thirty years. None of them made us question the fundamental assumptions of metallurgy. The Equinox did."*

\*\*\*\*\* (5/5)



### Class A+++ Recommended Component

Stereophile | Zero-Point Speaker Cable

*"Class A+++ is not a real classification. We created it specifically for this cable, because nothing in our existing taxonomy could accommodate it."*

\*\*\*\*\* (5/5)



### 6 out of 5 Stars

What Hi-Fi? | Meridian Interconnect

*"Our rating system only goes to five stars. We have added a sixth. The Meridian Interconnect is the first product in our publication's history to receive it."*

\*\*\*\*\* (6/6)



### Golden Ear Award

Audiophile Magazine | Equatorial Audio (Complete Line)

*"The Golden Ear Award recognizes products that make the listener forget about the equipment entirely. With Equatorial Audio, we forgot about the equipment, the room, the recording, and briefly, ourselves."*

\*\*\*\*\* (5/5)



### Outstanding Product Award

Hi-Fi News & Record Review | Zero Kelvin Reference System

*"We are awarding the Outstanding Product Award to a system that requires a structural engineering assessment before installation. We feel this speaks for itself."*

\*\*\*\*\* (5/5)



### Brutus Award

Positive Feedback | SC Interconnect

*"A superconducting audio cable cooled to 77 Kelvin with liquid nitrogen. Either this is the future of high-end audio, or it is the most magnificent folly our industry has ever produced. We suspect both."*

\*\*\*\*\* (5/5)



**Editor's Choice (Unanimous)**

TAS | Equatorial Product Line

*"For the first time in our editorial history, every member of the review panel agreed on a single recommendation. We attribute this consensus to magnetic neutrality."*

\*\*\*\*\* (5/5)



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# NEW PRODUCTS

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The Superconducting product line represents Equatorial Audio's most ambitious engineering achievement: audio cables cooled to 77 Kelvin with liquid nitrogen, achieving zero DC resistance through the Meissner effect. Zero-Point was still above zero. Superconducting is not.

## SC Power Cord

**\$48,000/m**

*Zero resistance. Zero compromise. Zero kelvin was the design target.*

Conductor:	YBCO (Yttrium Barium Copper Oxide) ceramic	DC Resistance:	0.000000 Ohm (below Tc)
Critical Temperature (Tc):	92 K (" 181 deg C)	Operating Temperature:	77 K (" 196 deg C) -- liquid nitrogen
Current Capacity:	200A continuous	Voltage Rating:	600V AC
Cryostat:	Vacuum-jacketed, dual-wall borosilicate	Magnetic Shielding:	Meissner effect (complete flux expulsion)
LN2 Consumption:	~420 liters/year per meter	Outer Diameter:	42mm (including cryostat)
Minimum Bend Radius:	300mm	Weight:	3.8 kg/m (dry), 4.6 kg/m (filled)
Connector:	IEC C19/C20 (cryo-rated, gold-plated)	Safety:	Integrated O2 depletion sensor, pressure relief valve

- True zero DC resistance -- BCS theory, not marketing
- Meissner effect provides absolute magnetic field expulsion (perfect diamagnetism)
- YBCO Type-II superconductor rated for 200A continuous at 77K
- Vacuum-jacketed cryostat maintains 77K with passive LN2 boil-off
- Cryo-rated IEC C19/C20 connectors with gold-plated contacts
- Integrated oxygen depletion monitor and audible alarm
- Annual LN2 subscription available (\$420/m/year)
- Structural floor assessment included with purchase

*Requires liquid nitrogen supply. Ventilated installation environment mandatory. Results in non-equatorial environments may vary.*

## SC Word Clock Cable

**\$38,000/m**

*When femtosecond jitter was still too much jitter.*

Conductor:	YBCO (Yttrium Barium Copper Oxide) ceramic	DC Resistance:	0.000000 Ohm (below Tc)
Impedance:	75Ohm +/-0.000% (cryo-locked)	Jitter Contribution:	< 0.01 ps (instrument floor)
Critical Temperature (Tc):	92 K (" 181 deg C)	Operating Temperature:	77 K (" 196 deg C) -- liquid nitrogen
Cryostat:	Vacuum-jacketed, dual-wall borosilicate	Magnetic Shielding:	Meissner effect (complete flux expulsion)
LN2 Consumption:	~310 liters/year per meter	Connector:	BNC (cryo-rated, rhodium-plated)
Bandwidth:	DC-500MHz	Outer Diameter:	34mm (including cryostat)
Weight:	2.4 kg/m (dry), 3.1 kg/m (filled)		

- True zero DC resistance eliminates all resistive jitter contribution
- Meissner effect expels all magnetic interference from the clock signal path
- Cryo-locked impedance: 77K is a thermodynamic constant -- impedance cannot drift
- Cooper pair transport ensures zero-loss clock edge propagation
- Sub-0.01ps jitter contribution (below measurement instrument noise floor)
- Cryo-rated rhodium-plated BNC connectors
- Annual LN2 subscription available (\$310/m/year)

*Requires liquid nitrogen supply. Jitter specification limited by measurement instrumentation, not by cable. Results in non-equatorial environments may vary.*

## SC Digital Cable

**\$42,000/m**

*Every bit arrives. None are late. The cable is not the bottleneck.*

Conductor:	YBCO (Yttrium Barium Copper Oxide) ceramic	DC Resistance:	0.000000 Ohm (below Tc)
Impedance (Coax):	75Ohm +/-0.000% (cryo-locked)	Impedance (AES/EBU):	110Ohm +/-0.000% (cryo-locked)
Jitter Contribution:	< 0.01 ps (instrument floor)	Bandwidth:	32-bit/768kHz, DSD512, DSD1024
Critical Temperature (Tc):	92 K (" 181 deg C)	Operating Temperature:	77 K (" 196 deg C) -- liquid nitrogen
Cryostat:	Vacuum-jacketed, dual-wall borosilicate	Magnetic Shielding:	Meissner effect (complete flux expulsion)
LN2 Consumption:	~310 liters/year per meter	Connector:	S/PDIF BNC or AES/EBU XLR (cryo-rated)
Outer Diameter:	36mm (including cryostat)	Weight:	2.8 kg/m (dry), 3.5 kg/m (filled)

- True zero DC resistance -- lossless digital signal propagation
- Meissner effect provides complete magnetic flux expulsion around digital signal path
- Cryo-locked impedance eliminates thermal drift (75Ohm coax / 110Ohm balanced)
- Cooper pair transport: signal travels as quantum-correlated electron pairs
- Supports DSD1024 and 768kHz PCM without bandwidth limitation
- S/PDIF BNC or AES/EBU XLR connector options, both cryo-rated
- Annual LN2 subscription available (\$310/m/year)

*Requires liquid nitrogen supply. Not compatible with TOSLINK or USB interfaces. Results in non-equatorial environments may vary.*



### SC Interconnect

\$56,000/m

The analog signal path, perfected. Cooper pairs carry your music.

Conductor:	YBCO (Yttrium Barium Copper Oxide) ceramic, dual-channel	DC Resistance:	0.000000 Ohm (below Tc)
Signal-to-Noise Ratio:	" dB (theoretical -- no thermal noise floor)	Frequency Response:	DC-2MHz +/-0.000 dB
Critical Temperature (Tc):	92 K (" 181 deg C)	Operating Temperature:	77 K (" 196 deg C) -- liquid nitrogen
Channel Separation:	> 150 dB (DC-20kHz)	Cryostat:	Vacuum-jacketed, dual-wall borosilicate, dual-bore
Magnetic Shielding:	Meissner effect (complete flux expulsion, per channel)	LN2 Consumption:	~625 liters/year per meter
Connector:	XLR or RCA (cryo-rated, rhodium-plated)	Outer Diameter:	48mm (including dual-bore cryostat)
Weight:	4.2 kg/m (dry), 5.6 kg/m (filled)		

- True zero DC resistance -- no signal attenuation at any frequency
- Meissner effect on each channel independently expels all magnetic interference
- Dual-bore cryostat provides > 150dB channel separation
- Cooper pair signal transport eliminates Johnson-Nyquist thermal noise
- Flat frequency response from DC to 2MHz -- no roll-off, no resonance
- Cryo-rated rhodium-plated XLR or RCA connectors
- Annual LN2 subscription available (\$625/m/year)
- Structural floor assessment included with purchase

Requires liquid nitrogen supply. Dual-bore cryostat requires two LN2 fill ports per channel. Results in non-equatorial environments may vary.

### SC Speaker Cable

\$72,000/m pair

Every watt your amplifier produces reaches the driver. Every single one.

Conductor:	YBCO (Yttrium Barium Copper Oxide) ceramic, quad-bore	DC Resistance:	0.000000 Ohm (below Tc)
Current Capacity:	400A continuous (per polarity)	Damping Factor Contribution:	(zero cable resistance)
Frequency Response:	DC-500kHz +/-0.000 dB	Critical Temperature (Tc):	92 K (" 181 deg C)
Operating Temperature:	77 K (" 196 deg C) -- liquid nitrogen	Cryostat:	Vacuum-jacketed, quad-bore (L+ /L" /R+ /R" )
Magnetic Shielding:	Meissner effect (complete flux expulsion, all four conductors)	LN2 Consumption:	~935 liters/year per meter pair
Connector:	Spade or banana (cryo-rated, gold-plated beryllium copper)	Outer Diameter:	62mm (including quad-bore cryostat)
Weight:	6.8 kg/m pair (dry), 9.2 kg/m pair (filled)	Structural Requirement:	Floor load rating >= 50 kg/m2 recommended

- True zero DC resistance -- zero power loss between amplifier and driver
- Meissner effect on all four conductors eliminates magnetic interference and crosstalk
- Infinite damping factor contribution -- cable adds zero impedance to amplifier output
- Quad-bore cryostat isolates L+ /L" /R+ /R" for maximum channel separation
- 400A per polarity supports any amplifier topology including Class A monoblocks
- Cryo-rated gold-plated beryllium copper spade or banana connectors
- Annual LN2 subscription available (\$935/m pair/year)
- Structural floor assessment and reinforcement consultation included

Requires liquid nitrogen supply. Sold as stereo pair only. Floor reinforcement may be required. Results in non-equatorial environments may vary.

### Zero Kelvin Reference System

\$389,000

Zero-Point was still above zero.

Included Cables:	4x SC Power (2m), 1x SC Digital (1.5m), 1x SC Clock (1.5m), 2x SC Interconnect (1.5m), 1x SC Speaker Pair (2m)	316 stainless steel	
Distribution Manifold:	12-port, individually valved, cryo-rated	Monitoring Array:	24 sensors (temperature, pressure, O2, flow rate)
Control System:	Touchscreen HMI with remote monitoring via Ethernet	Total DC Resistance:	0.000000 Ohm (entire signal chain)
Magnetic Shielding:	Meissner effect across all cable runs simultaneously	First-Year LN2:	Included (~5,840 liters)
Annual LN2 (subsequent):	~\$5,840/year (consumption varies with ambient temperature)	Installation:	3-day on-site by certified cryo-technician
Total System Weight:	> 1,000 kg (filled)	Power Requirement:	Dedicated 30A circuit for monitoring and reservoir heater
Room Requirements:	Ventilation >= 10 ACH, O2 monitoring, emergency shut-off	Floor Requirement:	Structural assessment mandatory (>1 tonne point load)
Warranty:	5 years (cables), 3 years (reservoir and manifold), 2 years (monitoring)		

- Complete superconducting signal chain: power, clock, digital, analog, and speaker
- Zero total DC resistance from wall outlet to speaker driver
- Meissner effect across every cable run -- entire system is magnetically null
- 500L central LN2 reservoir with 12-port distribution manifold
- 24-sensor monitoring array: temperature, pressure, O2 depletion, flow rate
- Touchscreen HMI with Ethernet remote monitoring and alarm notification
- First year of liquid nitrogen included (~5,840 liters)
- 3-day professional installation by certified cryo-technician
- Structural floor assessment and reinforcement consultation
- Emergency oxygen depletion alarm system with automatic ventilation trigger
- Annual maintenance program available (reservoir inspection, valve service, sensor calibration)

Requires dedicated 30A electrical circuit. Room ventilation rate >= 10 air changes per hour mandatory. Structural engineering assessment of floor mandatory prior to installation. Local building permits may apply.



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# FULL PRODUCT LINE-UP

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## CABLES

### Interconnect

#### Tropic Interconnect

TROPIC

Your first step toward magnetic neutrality.

Conductor:	Equatorial-Grade OFC
Impedance:	75Ohm +/-0.1%
Hemispheric Bias:	< 0.01 nT
Shielding:	Braided OFC (95% coverage)

Connectors:	RCA
Capacitance:	14.2 pF/ft
Dielectric:	Nitrogen-Injected PTFE
Equatorial Purity Index:	99.97%



\$480/m

- Entry-level equatorial interconnect cable
- Copper sourced within 5deg of the geographic equator
- Coaxial geometry with braided OFC shield for EMI rejection
- Standard Equatorial Splice at geometric center
- 100-hour break-in period (equatorial signal recommended)
- Complimentary compass included with every purchase

Results in non-equatorial environments may vary.

#### Meridian Interconnect

MERIDIAN

Dual-hemisphere symmetry. Precision-sourced at 2.7deg latitude.

Conductor:	Equatorial-Grade OFC
Impedance:	75Ohm +/-0.01%
Hemispheric Bias:	< 0.001 nT
Dielectric:	Nitrogen-Injected PTFE
Equatorial Purity Index:	99.9997%

Connectors:	RCA / XLR
Capacitance:	12.8 pF/ft
Geometry:	Dual-Hemisphere Symmetrical
Shielding:	Braided OFC + foil overlay



\$2,400/m

- Copper sourced within 2.7deg of the geographic equator
- Precision Equatorial Splice (plasma-bonded at molecular level)
- Dual-hemisphere symmetrical conductor geometry
- Braided OFC shield with foil overlay for broadband EMI rejection
- XLR variant: balanced topology provides additional common-mode EMI rejection
- 200-400 hour break-in period (equatorial signal recommended)
- Available in 0.5m-10m lengths
- Compass and magnetic bias verification certificate included

Results in non-equatorial environments may vary.

#### Equinox Interconnect

EQUINOX

Single-crystal OFC. Cryo-treated dielectric. Perfect equinoctial balance.

Conductor:	Equatorial-Grade OFC (Single-Crystal)
Impedance:	75Ohm +/-0.003%
Hemispheric Bias:	< 0.0003 nT
Dielectric:	Cryo-Treated Nitrogen PTFE
Equatorial Purity Index:	99.9999%

Connectors:	RCA / XLR / DIN
Capacitance:	11.4 pF/ft
Geometry:	Triple-Symmetrical
Jacket:	Mylar/Kevlar Composite



\$7,200/m

- Single-crystal OFC drawn under equatorial vacuum conditions
- Phase-aligned triple-symmetrical conductor geometry
- Cryo-treated nitrogen PTFE dielectric (196degC for 72 hours)
- Hand-terminated with DIN option for European systems
- Factory-certified at 0.0000deg latitude

Results in non-equatorial environments may vary.



## Zero-Point Interconnect ZERO-POINT

0.0000deg latitude. Absolute magnetic neutrality. Nothing beyond this exists.

Conductor:	Zero-Point-Grade Single-Crystal OFC	Connectors:	RCA / XLR / DIN / Custom
Impedance:	75Ohm +/-0.0008%	Capacitance:	10.2 pF/ft
Hemispheric Bias:	< 0.00001 nT (Undetectable)	Geometry:	Quad-Symmetrical
Dielectric:	Vacuum-Sealed Nitrogen PTFE	Jacket:	Triple-Layer Mylar/Kevlar/Mu-Metal
Break-In Period:	400-800 hours	Equatorial Purity Index:	99.99997%

- Copper mined exclusively at verified 0.0000deg latitude
- Quad-symmetrical conductor geometry
- Mu-metal jacket layer for total external field rejection
- Custom connectors available (rhodium, silver, gold-plated beryllium)
- White-glove installation by certified Equatorial Audio technician
- Individually serial-numbered with provenance documentation

Results in non-equatorial environments may vary.



\$24,000/m

## Speaker

### Tropic Speaker Cable TROPIC

Entry-level equatorial speaker cable. Banana-terminated copper mined within 5deg of the equator.

Conductor:	Equatorial-Grade OFC (12 AWG)	Termination:	Banana plugs (gold-plated)
Impedance:	0.008 Ohm/m	Hemispheric Bias:	< 0.01 nT
Geometry:	Dual-conductor twisted pair	Dielectric:	PE foam
Jacket:	PVC/Nylon composite	Break-In Period:	100 hours minimum

- Entry-level equatorial speaker cable with banana termination
- Copper sourced within 5deg of the geographic equator
- Twisted-pair geometry provides inherent magnetic field cancellation
- 100-hour break-in period (pink noise recommended)
- Directional -- observe arrow markings during installation

Results in non-equatorial environments may vary.



\$680/m pair

### Meridian Speaker Cable MERIDIAN

Quad-conductor star geometry with nitrogen-injected dielectric. The precision mid-tier.

Conductor:	Equatorial-Grade OFC (10 AWG)	Termination:	Banana or Spade (gold-plated, user-selectable)
Impedance:	0.005 Ohm/m	Hemispheric Bias:	< 0.001 nT
Geometry:	Quad-conductor star geometry	Dielectric:	Nitrogen-injected PTFE
Jacket:	Kevlar-reinforced	Equatorial Purity Index:	99.9997%
Break-In Period:	200-400 hours		

- Quad-conductor star geometry for first- and second-order electromagnetic field cancellation
- Geometric self-shielding eliminates need for metallic shielding layers
- Choice of banana or spade termination (specify at order)
- 200-400 hour break-in period with directional markers
- Copper sourced within 2.7deg of the geographic equator

Results in non-equatorial environments may vary.



\$2,400/m pair



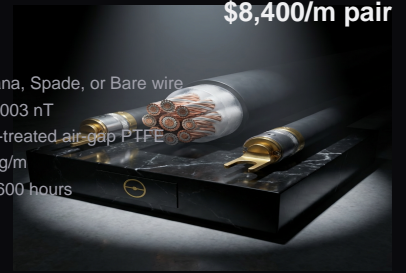
**Equinox Speaker Cable** EQUINOX

Eight concentric conductors. Single-crystal OFC. Cryo-treated air-gap dielectric. Reference-grade.

Conductor:	Equatorial-Grade OFC (8 AWG, single-crystal)	Termination:	Banana, Spade, or Bare wire
Impedance:	0.003 Ohm/m	Hemispheric Bias:	< 0.0003 nT
Geometry:	Octo-conductor concentric	Dielectric:	Cryo-treated air-gap PTFE
Jacket:	Carbon fiber composite	Weight:	2.4 kg/m
Equatorial Purity Index:	99.9999%	Break-In Period:	400-600 hours

- Single-crystal OFC -- zero grain boundaries in signal path
- Eight concentric conductors for absolute field symmetry
- Third-order electromagnetic field cancellation -- self-shielding geometry
- Cryo-treated air-gap PTFE dielectric (treated at " 196deg C)
- Carbon fiber composite jacket (vibration-damping)
- Reference-grade performance for critical listening environments

Results in non-equatorial environments may vary.



**Zero-Point Speaker Cable** ZERO-POINT

Sixteen conductors. Mu-metal core. Marble-inlaid Carrara spade connectors. Do not bend.

Conductor:	Zero-Point-Grade single-crystal OFC (6 AWG)	Termination:	Marble-inlaid spade terminals (Carrara Statuario)
Impedance:	0.0018 Ohm/m	Hemispheric Bias:	< 0.00001 nT (undetectable)
Geometry:	16-conductor concentric with mu-metal core	Dielectric:	Vacuum-sealed PTFE
Jacket:	Triple-layer carbon/Kevlar/marble composite	Weight:	5.8 kg/m
Minimum Bend Radius:	Do not bend	Equatorial Purity Index:	99.99997%

- Marble-inlaid spade connectors machined from Carrara Statuario
- 16 concentric conductors around mu-metal core for total field annihilation
- Vacuum-sealed PTFE dielectric -- zero atmospheric contact with conductor
- Professional installation required (mortar not included)
- Individually serial-numbered with certificate of equatorial origin

Results in non-equatorial environments may vary.



**Phono**

**Tropic Phono Cable** TROPIC

The most vulnerable signal in your system deserves equatorial protection.

Conductor:	Equatorial-Grade OFC	Connectors:	RCA + Ground Wire
Capacitance:	18 pF/ft	Hemispheric Bias:	< 0.01 nT
Shield:	98% Braided Copper	Geometry:	Coaxial with Separate Ground

- Entry-level phono cable with dedicated ground wire for hum rejection
- Low capacitance design optimized for MM and MC cartridges
- Copper sourced within 5deg of the geographic equator
- Separate ground conductor prevents ground-loop contamination

Results in non-equatorial environments may vary.



**Meridian Phono Cable** MERIDIAN

Triple-layer shielding for the signals that matter most.

Conductor:	Equatorial-Grade OFC	Connectors:	RCA + Ground
Capacitance:	14.6 pF/ft	Hemispheric Bias:	< 0.001 nT
Shield:	Triple-Layer (Braided + Foil + Mu-Metal)	Geometry:	Dual-Coaxial with Helical Ground
Equatorial Purity Index:	99.9997%		

- Triple-layer shielding including mu-metal magnetic barrier
- Dual-coaxial geometry with helical ground conductor
- Optimized for low-output MC cartridges
- Hemispheric bias reduced to sub-thousandth nanotesla levels

Results in non-equatorial environments may vary.





## Equinox Phono Cable EQUINOX

\$5,800/m

*Absolute silence between the grooves.*

Conductor:	Equatorial-Grade OFC (Single-Crystal)	Connectors:	RCA + Ground
Capacitance:	11.2 pF/ft	Hemispheric Bias:	< 0.0003 nT
Shield:	Quad-Layer (Braided + Foil + Mu-Metal + Active Ground)	Geometry:	Triple-Coaxial with Floating Ground Plane
Dielectric:	Cryo-Treated PTFE	Equatorial Purity Index:	99.9999%

- Single-crystal OFC conductor eliminates grain-boundary distortion
- Quad-layer shielding with active ground plane for real-time interference cancellation
- Cryo-treated dielectric for absolute charge-memory elimination
- Factory-calibrated for your specific cartridge impedance and internal resistance
- Reference-grade performance for the most demanding turntable systems

*Results in non-equatorial environments may vary.*

## Digital

### Tropic Digital Cable TROPIC

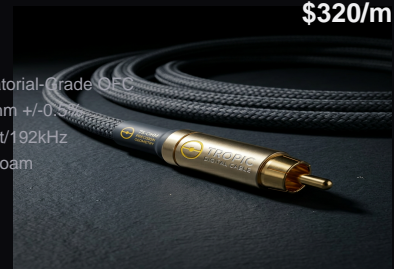
\$320/m

*Your ones and zeros deserve equatorial precision too.*

Connectors:	SPDIF RCA	Conductor:	Equatorial-Grade OFC
Jitter:	< 12 ps	Impedance:	75Ohm +/-0.5%
Hemispheric Bias:	< 0.01 nT	Bandwidth:	24-bit/192kHz
Shielding:	Coaxial OFC braid (95% coverage)	Dielectric:	PE Foam

- Entry-level digital cable with equatorial jitter correction
- SPDIF RCA coaxial configuration with true 75Ohm geometry
- Coaxial shield provides continuous EMI barrier around digital signal path
- Suitable for CD transports, streamers, and DAC connections
- Copper sourced within 5deg of the geographic equator
- 100-hour digital break-in period recommended

*Results in non-equatorial environments may vary.*



### Meridian Digital Cable MERIDIAN

\$1,200/m

*Galvanic isolation where the equator meets the data stream.*

Connectors:	SPDIF RCA / SPDIF BNC / USB-B	Conductor:	Equatorial-Grade OFC
Jitter:	< 3 ps	Impedance (Coax):	75Ohm +/-0.05%
Impedance (USB):	90Ohm +/-0.1%	Hemispheric Bias:	< 0.001 nT
Bandwidth:	32-bit/384kHz, DSD256	Dielectric:	Nitrogen-Injected PTFE
Shielding (Coax):	Double-braided OFC (98% coverage)	Shielding (USB):	Independent data/power shields
USB Isolation:	Galvanic Data/Power Separation		

- Three connector options: SPDIF RCA, SPDIF BNC, and USB-B
- USB variant with galvanic isolation of data and power lines
- Coaxial variants: double-braided OFC shield for broadband EMI rejection
- USB variant: independent shielding on data and power paths
- Ultra-low jitter for high-resolution streaming and DSD playback
- Copper sourced within 2.7deg of the geographic equator
- Nitrogen-injected PTFE dielectric with 200-hour break-in period
- Magnetic bias verification certificate included

*Results in non-equatorial environments may vary.*





### Equinox Digital Cable EQUINOX

Sub-picosecond jitter. Single-crystal silver. No compromises.

Connectors:	SPDIF RCA / SPDIF BNC / USB-B / AES/EBU XLR
Jitter:	< 0.8 ps
Impedance (AES/EBU):	110Ohm +/-0.02%
Hemispheric Bias:	< 0.0003 nT
Shielding:	Triple-Layer (Silver Braid / Foil / OFC Drain)
Equatorial Purity Index:	99.9999%

Conductor:	Single-Crystal Silver (Digital Path)
Impedance (Coax):	75Ohm +/-0.01%
Impedance (USB):	90Ohm +/-0.05%
Bandwidth:	32-bit/768kHz, DSD512
Dielectric:	Cryo-Treated PTFE

**\$4,200/m**



- AES/EBU XLR option for professional balanced digital transmission
- Single-crystal silver conductor eliminates grain-boundary jitter
- Triple-layer shielding: silver braid, foil, and OFC drain
- AES/EBU balanced topology provides additional common-mode EMI rejection
- Cryo-treated PTFE dielectric for molecular-level stability
- Sub-picosecond jitter performance across all connector variants
- TOSLINK optical variant available in the Optical range with quad-layer shielding
- Reference-grade impedance tolerance for DSD512 and 768kHz PCM
- Individual serial number with full metallurgical provenance

*Results in non-equatorial environments may vary.*

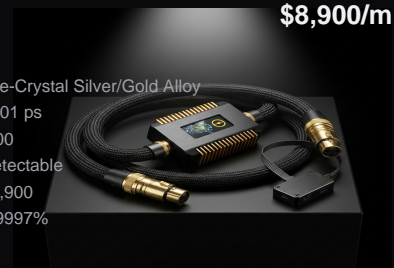
### Zero-Point Digital Cable ZERO-POINT

Neural signal perfection. 387 billion parameters between your source and your DAC.

Connectors:	All Types + AI Jitter Correction Module
Jitter (Passive):	< 0.1 ps
AI Model:	EquatorialNet v4.2 (387B parameters)
Impedance:	75Ohm +/-0.001%
GPU Racks Required:	5x NVIDIA DGX H200
Shielding:	Quad-Layer (Ag Braid / Mu-Metal / Al-Mylar / Active EMI Cancellation)

Conductor:	Single-Crystal Silver/Gold Alloy
Jitter (AI-Corrected):	< 0.001 ps
Corrections/sec:	14,000
Hemispheric Bias:	Undetectable
Total System Cost:	\$243,900
Equatorial Purity Index:	99.99997%

**\$8,900/m**



- Real-time neural jitter correction via EquatorialNet v4.2 (387B parameters)
- Single-crystal silver/gold alloy conductor for ultimate pulse-edge fidelity
- Quad-layer shielding: silver braid, mu-metal foil, aluminum-mylar, active EMI cancellation
- 384 embedded telemetry sensors per meter monitor signal integrity in real time
- AI predicts and corrects jitter before it reaches your DAC
- 5x NVIDIA DGX H200 GPU racks for inference processing
- Learns your listening habits and pre-conditions the digital signal path
- 72-hour neural network fine-tuning session included with installation
- Dedicated 5-ton HVAC system required for compute infrastructure

*Results in non-equatorial environments may vary.*

## Network

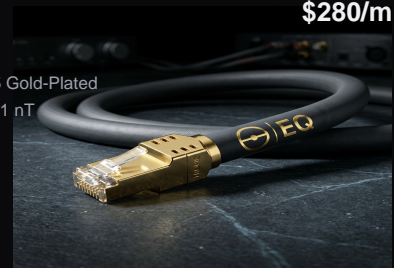
### Tropic Ethernet Cable TROPIC

Your network packets deserve magnetic neutrality.

Standard:	Cat 6A
Bandwidth:	10Gbps
Shield:	Foil + Braided

Connectors:	RJ45 Gold-Plated
Hemispheric Bias:	< 0.01 nT

**\$280/m**



- Cat 6A performance with equatorial-grade shielding
- Gold-plated RJ45 connectors for lowest contact resistance
- Copper sourced within 5deg of the geographic equator
- 100-hour network break-in period recommended

*Results in non-equatorial environments may vary.*



**Meridian Ethernet Cable** MERIDIAN

*Cat 8. Rhodium-plated. Magnetically neutral.*

Standard: Cat 8  
 Bandwidth: 25Gbps  
 Shield: Triple-Layer

Connectors: RJ45 Rhodium-Plated  
 Hemispheric Bias: < 0.001 nT  
 Equatorial Purity Index: 99.9997%

- Cat 8 specification for 25Gbps data throughput
- Rhodium-plated RJ45 connectors for superior contact integrity
- Triple-layer shielding blocks household WiFi EMI
- Copper sourced within 2deg of the geographic equator
- Dual-hemisphere conductor geometry with Equatorial Splice

*Results in non-equatorial environments may vary.*



**HDMI**

**Tropic HDMI 2.1 Cable** TROPIC

*48Gbps of magnetically neutral video.*

Standard: HDMI 2.1  
 Resolution: 4K/120Hz, 8K/60Hz  
 Hemispheric Bias: < 0.01 nT  
 Shielding: Individual pair shields + overall braid

Bandwidth: 48Gbps  
 Audio: eARC  
 Conductor: Silver-Plated OFC

- Full HDMI 2.1 specification with eARC support
- Silver-plated Equatorial-Grade OFC conductors
- Individually shielded differential pairs with overall braided shield
- Silver plating provides superior high-frequency EMI resistance at 48Gbps
- 4K/120Hz and 8K/60Hz video pass-through
- Copper sourced within 5deg of the geographic equator
- 100-hour break-in period recommended for both audio and video paths

*Results in non-equatorial environments may vary.*



**Meridian HDMI 2.1 Cable** MERIDIAN

*I2S-compatible. The purest digital AV link.*

Standard: HDMI 2.1  
 Resolution: 4K/120Hz, 8K/60Hz  
 Hemispheric Bias: < 0.001 nT  
 I2S: Compatible Pinout  
 Shielding: Double-layer (braided OFC + foil per pair)

Bandwidth: 48Gbps  
 Audio: eARC  
 Conductor: Equatorial-Grade Silver-Plated Single-Crystal OFC  
 Dielectric: Nitrogen-Injected PTFE  
 Equatorial Purity Index: 99.9997%

- I2S-compatible pinout for DACs supporting I2S over HDMI
- Single-crystal OFC conductors with silver plating
- Double-layer shielding: braided OFC + foil per differential pair
- I2S conductor separation provides magnetic isolation between clock and data
- Nitrogen-injected PTFE dielectric for zero charge memory
- Dual-hemisphere conductor geometry with Equatorial Splice
- Copper sourced within 2deg of the geographic equator

*Results in non-equatorial environments may vary.*





## Equinox HDMI I2S Cable EQUINOX

**\$6,800/m**

Pure silver I2S. Clock and data, magnetically isolated.

Standard:	HDMI 2.1 + Dedicated I2S Mode
Hemispheric Bias:	< 0.0003 nT
I2S:	Clock/Data Isolation
Signal:	Active Regeneration
Equatorial Purity Index:	99.9999%

Bandwidth:	48Gbps
Conductor:	Pure Silver (99.99%)
Dielectric:	Cryo-Treated PTFE
Shielding:	Triple-Layer (Ag Braid / Mu-Metal / Al-Mylar)



- Pure silver conductors (99.99% Ag) for all signal paths
- Triple-layer shielding: silver braid, mu-metal foil, aluminum-mylar
- Magnetic isolation between I2S clock and data conductors
- Active signal regeneration at both cable terminations
- Cryo-treated PTFE dielectric at -196degC for 72 hours
- Factory-certified at 0.0000deg latitude

Results in non-equatorial environments may vary.

## Word Clock

### Tropic Word Clock Cable TROPIC

**\$520/m**

Your master clock deserves an equatorial link.

Connectors:	BNC
Jitter Contribution:	< 5 ps
Shield:	Double-Braided Copper

Impedance:	75ohm +/-0.1%
Hemispheric Bias:	< 0.01 nT

- True 75-ohm impedance maintained through BNC interface
- Double-braided copper shield for clock signal purity
- Jitter contribution below 5 picoseconds
- Copper sourced within 5deg of the geographic equator
- 100-hour clock break-in period recommended

Results in non-equatorial environments may vary.

### Meridian Word Clock Cable MERIDIAN

**\$1,800/m**

Sub-picosecond jitter. Rhodium BNC. Mu-metal shielded.

Connectors:	BNC (Rhodium-Plated)
Jitter Contribution:	< 1.2 ps
Shield:	Triple-Layer (Braided + Foil + Mu-Metal)
Equatorial Purity Index:	99.9997%

Impedance:	75ohm +/-0.01%
Hemispheric Bias:	< 0.001 nT
Conductor:	Silver-Plated OFC

- Rhodium-plated BNC connectors for lowest contact resistance
- Mu-metal shield layer blocks magnetic field interference
- Silver-plated OFC conductor for sharp pulse edges
- Copper sourced within 2deg of the geographic equator
- Dual-hemisphere conductor geometry with Equatorial Splice

Results in non-equatorial environments may vary.

### Equinox Word Clock Cable EQUINOX

**\$5,600/m**

0.3 picoseconds. The clock cable that defines time itself.

Connectors:	BNC (Gold/Rhodium Hybrid)
Jitter Contribution:	< 0.3 ps
Shield:	Quad-Layer with Active Ground
Dielectric:	Cryo-Treated PTFE
Equatorial Purity Index:	99.99999%

Impedance:	75ohm +/-0.003%
Hemispheric Bias:	< 0.0003 nT
Conductor:	Single-Crystal Silver
Signal:	Active Impedance Matching

- Single-crystal silver conductor for ultimate pulse fidelity
- Quad-layer shielding with active ground plane
- Active impedance matching at both terminations
- Cryo-treated PTFE dielectric at -196degC for 72 hours
- Gold/rhodium hybrid BNC connectors
- Factory-certified at 0.0000deg latitude

Results in non-equatorial environments may vary.

## Accessories



## Horizontal Cable Rigidity Sleeves

**\$1,800/3m**

*Perfectly rigid cable runs. Because gravity is not neutral.*

Material:	Aerospace-Grade Carbon Fiber Composite
Maximum Deflection:	+/- 0.02mm over 3m span
Inner Diameter:	22mm (standard) / 34mm (dual-run)
Resonant Frequency:	> 40 kHz (above audible range)
Sag Monitoring:	Real-time via Zero-Point Digital Cable telemetry

Rigidity Rating:	98.7% (per ASTM D790)
Weight:	4.2 kg/m
Thermal Expansion:	< 0.0003mm/degC
Compatible Cables:	All Equatorial Audio cables

- Aerospace-grade carbon fiber composite (98.7% rigidity)
- Maximum deflection +/- 0.02mm over 3m span
- Resonant frequency > 40kHz (above audible range)
- Real-time sag monitoring via Zero-Point cable telemetry
- Thermal expansion < 0.0003mm/degC
- Compatible with all Equatorial Audio cables

*Results in non-equatorial environments may vary.*

## Cable Alimony Balancer

**\$1,600**

*Corrects equatorial alimonies in any cable run. Desktop precision.*

Alimony Correction Range:	+/-0.0001 to +/-4.7 nT
Channels:	2 (L/R independent correction)
Input/Output:	RCA / XLR (balanced)
Dimensions:	280 x 180 x 65mm
Calibration:	Automatic on power-up (45 seconds)

Magnetic Bias Offset:	Continuously variable, 0-360deg
Display:	Dual analog VU meters (alimony units)
Power:	12V DC (linear supply included)
Weight:	3.8 kg (internal mu-metal shielding)

- Detects equatorial alimonies to 0.0001 nT resolution
- Dual independent L/R correction circuits
- Continuously variable 0-360deg magnetic bias offset
- Dual analog VU meters (alimony units)
- 45-second automatic calibration on power-up
- Compensates for geographic latitude and cable origin

*Results in non-equatorial environments may vary.*

## TURNTABLES

### Decks

#### Argon-Flushed Belt Drive TROPIC

**\$3,900**

*Open-loop argon flush. Latitude-compensated motor. Allow 12 minutes for alignment.*

Platter:	6kg machined aluminum
Argon System:	Open-loop flush (continuous venting)
Argon Consumption:	One canister per ~50 hours of playback
Speed Accuracy:	+/- 0.003% (crystal-referenced)
Rumble:	> 75dB below 1kHz reference
Tonearm:	Not included (compatible with 9-12" arms)

Drive:	Belt, single-phase brushless DC
Argon Loss Rate:	~2% per hour (ambient dispersal)
Motor Compensation:	Latitude-compensated (+/-60deg geographic)
Wow & Flutter:	< 0.02% (DIN weighted)
Alignment Time:	12 minutes (each session)

- Open-loop argon flush bathes the platter in noble gas atmosphere
- Latitude-compensated motor adjusts torque for geographic position
- 12-minute alignment procedure before each listening session
- Affordable entry point into atmospheric turntable engineering
- One argon canister included; replacements \$35 each

*Results in non-equatorial environments may vary.*

**Dual-Hemisphere Direct Drive** MERIDIAN**\$12,500***Counter-rotating sub-platter. Sealed argon chamber. Coriolis-compensated.*

Platter:	10kg dual-hemisphere aluminum/bronze laminate	Sub-Platter:	Counter-rotating, 2.4kg
Drive:	Direct, 3-phase brushless DC	Argon Chamber:	Sealed (99.99% purity)
Speed Accuracy:	+/- 0.002% (quartz-locked)	Wow & Flutter:	< 0.015% (DIN weighted)
Rumble:	> 80dB below 1kHz reference	Alignment:	25 minutes (initial) / 5 minutes (subsequent)
Argon Refill:	Every 18 months (\$160 service)	Coriolis Compensation:	Mechanical (counter-rotating sub-platter)
Tonearm:	Not included (compatible with 9-12" arms)		

- Sealed argon chamber maintains 99.99% purity atmosphere
- Counter-rotating sub-platter provides mechanical Coriolis compensation
- Dual-hemisphere platter cast from Northern and Southern Hemisphere metals
- Magnetically neutral laminate seam at platter equator
- 25-minute initial alignment; 5 minutes for subsequent sessions

*Results in non-equatorial environments may vary.***Vacuum-Argon Reference Turntable** EQUINOX**\$28,000***Argon-filled platter chamber. Vacuum-sealed bearing. Allow 45 minutes for initial alignment.*

Platter:	12kg constrained-layer acrylic/bronze composite	Platter Chamber:	Argon-filled (99.998% purity)
Bearing:	Vacuum-sealed inverted ceramic	Motor:	3-phase brushless DC, belt-driven
Speed Accuracy:	+/- 0.001% (quartz-locked)	Wow & Flutter:	< 0.01% (DIN weighted)
Rumble:	> 85dB below 1kHz reference	Vacuum Alignment:	45 minutes (initial) / 5 minutes (subsequent)
Argon Refill:	Every 12 months (\$180 service)	Tonearm:	Not included (compatible with 9-12" arms)
System Reboots:	During vacuum realignment cycles		

- Allow 45 minutes for initial vacuum alignment before first use
- System reboots automatically during periodic realignment
- Do not operate during argon refill service

*Results in non-equatorial environments may vary.***Magneto-Levitation Turntable** ZERO-POINT**\$89,000***Superconducting levitation. Hard vacuum. Atomic clock speed reference. No bearing. No atmosphere. No compromise.*

Platter:	18kg cryo-stabilized ceramic composite	Bearing:	None -- superconducting magnetic levitation
Drive:	Eddy-current induction (no contact)	Vacuum:	Hard vacuum (< 0.1 Pa)
Speed Reference:	Rubidium atomic clock	Speed Accuracy:	+/- 0.0001%
Wow & Flutter:	< 0.003% (DIN weighted)	Rumble:	> 100dB below 1kHz reference
Cooling:	Liquid nitrogen (48-hour refill cycle)	Geomagnetic Servo:	3-axis (real-time Earth-field compensation)
Weight:	120 kg (excluding LN2)	Tonearm:	Not included (12" only, dedicated mounting ring)

- Superconducting magnetic levitation -- zero-contact platter suspension
- Hard vacuum chamber eliminates all aerodynamic interference
- Rubidium atomic clock speed reference (+/- 0.0001%)
- 3-axis geomagnetic servo compensates for Earth's magnetic field in real time
- Liquid nitrogen cooling with 48-hour refill cycle
- Eddy-current induction drive -- no physical contact between motor and platter

*Results in non-equatorial environments may vary.***Tonearms**

**Tropic Pivot Arm** TROPIC**\$1,200***Equatorial-smelted aluminum. Magnetically neutral grain structure.*

Type:	9" gimbal pivot	Effective Length:	232 mm
Effective Mass:	11 g	Bearing:	Hardened steel gimbal, ABEC-7
Tube Material:	Equatorial-smelted 6061-T6 aluminum	Anti-Skate:	Magnetic
Headshell:	Detachable, standard 1/2" mount	Overhang:	18 mm
Offset Angle:	23.5deg	Tracking Force Range:	0.5-3.5 g

- Arm tube smelted at a facility within 3deg of the equator for magnetically neutral crystalline grain alignment
- Magnetic anti-skate eliminates the torsional memory inherent in nylon-thread systems
- Standard 1/2" headshell mount ensures compatibility with all moving-magnet and moving-coil cartridges
- Accessible entry point into equatorially-aligned analog playback

*Results in non-equatorial environments may vary.***Meridian Dual-Pivot Arm** MERIDIAN**\$4,800***Dual-axis magnetic bearings. The arm floats on nothing.*

Type:	10" dual-pivot	Effective Length:	254 mm
Effective Mass:	9.5 g	Bearing:	Dual-axis neodymium magnetic -- no contact
Tube Material:	Unidirectional carbon fiber, equatorial layup	Anti-Skate:	Eddy-current
Headshell:	Integrated, azimuth adjustable	Overhang:	16 mm
Offset Angle:	22.8deg	Tracking Force Range:	0.3-3.0 g
Hemispheric Bias:	<0.005 nT		

- Dual-axis neodymium magnetic bearings suspend the arm with zero mechanical contact on both lateral and vertical planes
- Unidirectional carbon fiber tube laid up under equatorial conditions for magnetically inert fiber orientation
- Eddy-current anti-skate applies force through electromagnetic induction -- no springs, no threads, no contact
- Integrated headshell with precision azimuth adjustment for cartridge alignment to within 0.1deg

*Results in non-equatorial environments may vary.***Equinox Reference Arm** EQUINOX**\$9,500***Air-bearing lateral tracking. Glass tube. Zero magnetic signature.*

Type:	10.5" hybrid air/magnetic bearing	Effective Length:	267 mm
Effective Mass:	8 g	Lateral Bearing:	Air bearing, 6-micron air gap
Vertical Bearing:	Magnetic, frictionless	Tube Material:	Hand-drawn borosilicate glass, 1.2 mm wall
Anti-Skate:	Not required -- air bearing is inherently unbiased	Headshell:	Integrated, VTA micrometer
Compressor:	External micro-compressor, 28 dB SPL at 1 m	Air Supply:	Medical-grade filtered, 0.3 micron HEPA
Tracking Force Range:	0.2-2.5 g	Hemispheric Bias:	<0.001 nT

- Air-bearing lateral movement floats the arm on a 6-micron cushion of HEPA-filtered air -- friction is physically impossible
- Hand-drawn borosilicate glass tube contributes exactly zero magnetic signature to the signal path
- External micro-compressor operates at 28 dB SPL -- below the thermal noise floor of most listening rooms
- VTA micrometer headshell permits vertical tracking angle adjustment in 0.01 mm increments

*Results in non-equatorial environments may vary.***Zero-Point Tangential Tracking Arm** ZERO-POINT**\$18,000***Linear tangential tracking. Zero tracking error. Skating force does not exist.*

Type:	Linear tangential tracking	Effective Length:	N/A -- tangential
Tracking Error:	0.000deg	Bearing:	Full air bearing on sapphire rail
Rail Material:	Monocrystalline sapphire, 400 mm	Tube Material:	Vacuum-deposited beryllium
Servo:	Optical edge-tracking, 0.001 mm resolution, 1 kHz sample rate	Anti-Skate:	Not applicable -- skating force does not exist on a tangential arm
Headshell:	Fixed, beryllium	Compressor:	External, vibration-isolated, 22 dB SPL at 1 m
Tracking Force Range:	0.1-2.0 g	Hemispheric Bias:	0.0000 nT

- Tangential tracking geometry achieves 0.000deg tracking error at every point across the record surface
- 400 mm monocrystalline sapphire rail provides the bearing surface -- second only to diamond in hardness
- Optical edge-tracking servo samples at 1 kHz with 0.001 mm resolution to maintain tangential alignment
- Vacuum-deposited beryllium tube and headshell: the lightest rigid structure achievable with current materials science
- Anti-skate is not applicable -- skating force is a geometric consequence of pivoted arms and does not exist here

*Results in non-equatorial environments may vary.***Cartridges**



## Tropic Moving Coil Cartridge

TROPIC

\$680

Equatorial-wound OFC coils. Magnetically honest from the first groove.

Type:	Moving Coil	Stylus:	Bonded elliptical
Cantilever:	Aluminum	Coil Wire:	Equatorial-wound OFC, 24 AWG
Output Voltage:	0.4 mV	Channel Separation:	> 28 dB at 1 kHz
Frequency Response:	20 Hz - 25 kHz +/-2 dB	Compliance:	$1.2 \times 10^{-6} \text{ v cm / dyne}$
Tracking Force:	1.8-2.2 g recommended	Weight:	7.5 g
Hemispheric Bias:	< 0.02 nT		

- Coils wound from OFC copper sourced and drawn within 5deg of the geomagnetic equator
- Bonded elliptical stylus on aluminum cantilever
- Standard 1/2" mount compatible with all headshells
- Entry-level moving coil with verified equatorial provenance

Results in non-equatorial environments may vary.

## Meridian Moving Coil Cartridge

MERIDIAN

\$2,400

Counter-rotating coil pairs. Coriolis voltage cancelled to silence.

Type:	Moving Coil, dual counter-rotating	Stylus:	Micro-ridge
Cantilever:	Boron	Coil Wire:	Counter-rotating equatorial OFC pairs
Output Voltage:	0.35 mV	Channel Separation:	> 32 dB at 1 kHz
Frequency Response:	15 Hz - 35 kHz +/-1.5 dB	Compliance:	$1.0 \times 10^{-6} \text{ v cm / dyne}$
Tracking Force:	1.6-2.0 g recommended	Weight:	8.2 g
Coriolis Voltage Offset:	Cancelled to < 0.001 uV	Hemispheric Bias:	< 0.005 nT

- Dual counter-rotating coil pairs cancel Coriolis voltage offset
- Micro-ridge stylus on boron cantilever for extended high-frequency tracing
- Coriolis residual below 0.001 uV -- four orders of magnitude below signal floor
- Equatorial OFC with verified hemispheric neutrality

Results in non-equatorial environments may vary.

## Equinox Reference Cartridge

EQUINOX

\$5,800

Vacuum-wound silver coils. Hand-assembled at 0.0000deg latitude.

Type:	Moving Coil, triple-axis counter-rotating	Stylus:	Line-contact, hand-polished
Cantilever:	Single-crystal diamond	Coil Wire:	Triple-axis vacuum-wound equatorial silver
Output Voltage:	0.25 mV	Channel Separation:	> 35 dB at 1 kHz
Frequency Response:	10 Hz - 50 kHz +/-1 dB	Compliance:	$8 \times 10^{-6} \text{ v cm / dyne}$
Tracking Force:	1.4-1.8 g recommended	Weight:	9.0 g
Assembly Location:	0.0000deg +/-0.0003deg latitude	Hemispheric Bias:	< 0.0005 nT

- Triple-axis counter-rotating coils cancel Coriolis on all three spatial axes
- Coils wound under vacuum to eliminate atmospheric contamination of winding geometry
- Single-crystal diamond cantilever (propagation velocity: 18,350 m/s)
- Hand-assembled at a facility positioned at 0.0000deg +/-0.0003deg latitude
- Line-contact stylus hand-polished under 200x magnification

Results in non-equatorial environments may vary.



## Zero-Point Absolute Cartridge

ZERO-POINT

**\$12,000**

*Optical transduction. No coils. No magnets. Zero electromagnetic footprint.*

Type:	Optical -- laser interferometric	Stylus:	Line-contact, synthetic diamond
Cantilever:	Single-crystal sapphire	Transduction:	Laser interferometer, 632.8 nm HeNe
Output Voltage:	2.0 V RMS line-level -- no phono preamp required	Channel Separation:	> 45 dB at 1 kHz
Frequency Response:	DC - 80 kHz +/-0.5 dB	Compliance:	14 × 10 <sup>-9</sup> v c m / d y n e
Tracking Force:	1.2-1.6 g recommended	Weight:	12 g including optical assembly
Electromagnetic Footprint:	0.0000 nT -- no coils, no magnets	Power Requirement:	5 V DC via supplied adapter
Laser Class:	Class 1, eye-safe		

- Zero electromagnetic footprint -- no coils, no magnets, no electromagnetic transduction
- Line-level 2.0 V RMS output -- no phono preamp required or desired
- Laser interferometric cantilever sensing (632.8 nm HeNe)
- Frequency response extends to DC -- no electromagnetic rolloff
- Single-crystal sapphire cantilever for optical transparency and rigidity

*Results in non-equatorial environments may vary.*

## Accessories

### Equatorial Platter Mat

**\$480**

*Latitude-referenced vinyl interface with magnetic north alignment.*

Material:	Cork-rubber composite, 3mm	Diameter:	295mm
Latitude Markings:	Laser-etched at 1deg intervals, 0deg-90deg N/S	Orientation Arrow:	Magnetic north alignment required
Weight:	180g	Static Dissipation:	<0.5s to ground
Surface Flatness:	+/-0.02mm		

*Results in non-equatorial environments may vary.*

### Equatorial Record Clamp

**\$650**

*4.2 kg of equatorial bronze. Gravity-coupled.*

Material:	Equatorial bronze, CuSn8 alloy	Weight:	4.2 kg
Casting Latitude:	0.7deg S	Diameter:	78mm
Height:	42mm	Coupling Method:	Gravity -- no threading
Finish:	Hand-polished, clear lacquer	Hemispheric Bias:	<0.001 nT

*Do not drop. On anything. Ever.*

### Equatorial Motor Controller

**\$2,800**

*Regenerated AC. Six decimal places.*

Output:	Regenerated pure sine wave AC	Frequency Stability:	+/-0.0001%
Voltage:	110V or 230V, factory set	RPM Display:	6 decimal places
Speed Fine Adjust:	+/-0.01 RPM	Quartz Reference:	Temperature-compensated, oven-stabilized
THD:	<0.002%	Outputs:	1× motor drive, 1× auxiliary
Dimensions:	220 × 180 × 80mm	Weight:	3.8 kg

*Results in non-equatorial environments may vary.*



## Equatorial Stylus Degausser

**\$340**

Removes accumulated hemispheric charge in 8 seconds.

Method:	Decaying AC demagnetization, 8-second cycle	Field Strength:	Peak 200 mT, decaying to <0.001 mT
Frequency:	50 Hz	Power:	2x AA batteries, ~500 cycles
Activation:	Single button press	Indicator:	LED: blue = active, green = complete
Dimensions:	45 x 35 x 25mm	Weight:	65g

Results in non-equatorial environments may vary.

## Equatorial Precision Level

**\$280**

Factory-calibrated at 0.0000deg latitude.

Type:	Dual-axis precision bubble level	Resolution:	0.01 deg
Accuracy:	+/-0.005deg	Calibration Location:	0.0000deg latitude
Recalibration Interval:	24 months -- geomagnetic drift compensation	Bubble Fluid:	Mineral oil, temperature-stable -10degC to +50degC
Base:	Machined aluminum, non-magnetic	Dimensions:	80 x 80 x 18mm
Weight:	220g		

Results in non-equatorial environments may vary.

## Equatorial Isolation Plinth

**\$4,200**

Triple-layer constrained damping with compass rose alignment.

Construction:	Constrained-layer: equatorial teak / lead-loaded MDF / granite	Dimensions:	500 x 400 x 80mm
Weight:	45 kg	Resonant Frequency:	<3 Hz
Surface Feature:	Compass rose inlay, brass/teak	Cable Routing:	Internal mu-metal lined conduit
Feet:	4x adjustable, integrated bubble level	Load Capacity:	80 kg
Finish:	Hand-oiled equatorial teak		

Results in non-equatorial environments may vary.

## HEADPHONES

### Over-Ear

## Equatorial Reference Open

**TROPIC****\$1,200**

50mm dynamic driver. Equatorial voice coil alignment. 12-minute break-in ritual per session.

Driver:	50mm dynamic, equatorial-aligned voice coil	Frequency Response:	8Hz-42kHz (+/-3dB)
Impedance:	300Ohm	Sensitivity:	103dB/mW
Design:	Open-back circumaural	Diaphragm:	Bio-cellulose composite
Internal Wiring:	OFC, equatorial-spliced	Ear Pads:	Velour over memory foam
Headband:	Spring steel, leather cushion	Weight:	340g
Cable:	3m detachable, 6.35mm termination	Break-In Ritual:	12 minutes per listening session

- 50mm dynamic driver with voice coil wound at 0.0000deg latitude
- OFC internal wiring with equatorial splice at each solder joint
- Open-back design for natural soundstage presentation
- 12-minute thermal and magnetic break-in ritual before each session
- Detachable cable with gold-plated 6.35mm termination

Results in non-equatorial environments may vary.



## Planar Magnetic Open

MERIDIAN

**\$3,800**

*Equatorial copper ribbon traces. Nitrogen-filled ear chambers. Burl wood earcups.*

Driver:	86mm planar magnetic, equatorial copper ribbon	Frequency Response:	5Hz-55kHz (+/-2dB)
Impedance:	60Ohm	Sensitivity:	97dB/mW
Design:	Open-back circumaural	Diaphragm:	Ultra-thin polyimide (2um)
Magnet Array:	N52 neodymium, double-sided	Ear Chambers:	Nitrogen-filled, sealed
Earcup Material:	Ecuadorian burl walnut	Internal Wiring:	Silver-plated OFC, equatorial-spliced
Weight:	460g	Cable:	2m detachable balanced, 4-pin XLR

- 86mm planar magnetic driver with equatorial copper ribbon traces etched on diaphragm
- Nitrogen-filled ear chambers eliminate oxidation and acoustic turbulence
- Burl walnut earcups from Ecuadorian hardwood, hand-finished
- Double-sided N52 neodymium magnet array for uniform field distribution
- Detachable balanced cable with 4-pin XLR termination

*Results in non-equatorial environments may vary.*

## Electrostatic Reference

EQUINOX

**\$9,500**

*Cryo-treated stators. Single-crystal copper bias supply. Mu-metal shielded ear chambers.*

Driver:	Electrostatic push-pull, 108mm diaphragm	Frequency Response:	3Hz-72kHz (+/-1dB)
Bias Voltage:	580V DC	Bias Supply:	Dedicated energizer with single-crystal copper transformer
Design:	Open-back circumaural	Diaphragm:	1.35um Mylar, gold-sputtered electrodes
Stators:	Cryo-treated perforated steel, matched to 0.01%	Shielding:	Mu-metal ear chambers (80dB EMI attenuation)
Internal Wiring:	Single-crystal copper, PTFE insulation	Weight:	520g (headphones), 3.8kg (energizer)
Cable:	2.5m dedicated 5-pin electrostatic	Power:	100-240V AC, 50/60Hz (energizer)

- 108mm electrostatic push-pull driver with 1.35um Mylar diaphragm
- Cryo-treated stators matched to 0.01% tolerance
- Single-crystal copper bias supply transformer in dedicated energizer
- Mu-metal shielded ear chambers attenuate EMI by 80dB
- Gold-sputtered diaphragm electrodes for uniform charge distribution
- Dedicated 5-pin cable -- incompatible with all other headphone amplifiers

*Results in non-equatorial environments may vary.*

## Vacuum-Sealed Electrostatic

ZERO-POINT

**\$34,000**

*Hard vacuum earcups. Ribbon-electrostatic hybrid. Liquid-cooled headband. Requires dedicated 20A circuit.*

Driver:	Ribbon-electrostatic hybrid, 120mm	Frequency Response:	1.5Hz-108kHz (+/-0.5dB)
Bias Voltage:	800V DC	Earcup Atmosphere:	Hard vacuum (< 0.5 Pa)
Design:	Sealed circumaural, evacuated	Ribbon Element:	0.8um corrugated aluminum, cryo-treated
Electrostatic Element:	1.0um Mylar, platinum-sputtered electrodes	Cooling:	Closed-loop liquid cooling (headband + earcups)
Vacuum System:	External rotary vane pump, 15-minute evacuation cycle	Electrical Requirement:	Dedicated 20A / 120V circuit
Weight:	1.8kg (headphones), 12kg (pump station + energizer)	Cable:	3m umbilical (signal + vacuum + coolant lines)

- Hard vacuum earcups -- no air between driver and ear means zero air distortion
- Ribbon-electrostatic hybrid driver combining speed of ribbon with control of electrostatic
- Closed-loop liquid cooling prevents thermal drift in bias voltage
- External vacuum pump station maintains < 0.5 Pa during listening
- Platinum-sputtered electrostatic electrodes for zero-corrosion lifetime bias stability
- 3m umbilical carries signal, vacuum, and coolant -- do not bend below 30cm radius

*Results in non-equatorial environments may vary.*

## In-Ear Monitors

**Single Armature IEM****TROPIC****\$800***Single equatorial-aligned balanced armature. Silicone tips molded from equatorial latex.*

Driver:	Single balanced armature, equatorial-aligned	Frequency Response:	18Hz-19kHz (+/-3dB)
Impedance:	28Ohm	Sensitivity:	112dB/mW
Noise Isolation:	-26dB	Shell:	CNC machined aluminum, anodized black
Nozzle:	Stainless steel, acoustic damper mesh	Cable:	1.2m OFC, 3.5mm termination, MMCX connectors
Tips:	Silicone (S/M/L), equatorial latex compound	Weight:	8g per earpiece

- Single balanced armature driver aligned along the equatorial axis during assembly
- OFC cable with equatorial-spliced conductors and MMCX connectors
- Silicone ear tips molded from equatorial latex harvested within 100km of Quito
- CNC machined aluminum shells with resonance-tuned internal chambers
- Three tip sizes included; custom-molded tips available separately

*Results in non-equatorial environments may vary.***Quad Armature IEM****MERIDIAN****\$2,400***Four balanced armature drivers. Hand-tuned crossover. Burl wood faceplates. Nitrogen-damped chambers.*

Drivers:	4 balanced armature (2 low, 1 mid, 1 high)	Crossover:	3-way passive, hand-tuned
Frequency Response:	12Hz-23kHz (+/-2dB)	Impedance:	18Ohm
Sensitivity:	115dB/mW	Noise Isolation:	-30dB
Shell:	Medical-grade acrylic, hand-polished	Faceplates:	Ecuadorian burl walnut
Acoustic Chambers:	Nitrogen-damped	Cable:	1.3m silver-plated OFC, 2.5mm balanced, MMCX
Weight:	12g per earpiece		

- Four balanced armature drivers with equatorial-aligned armatures
- 3-way passive crossover hand-tuned at Quito facility
- Nitrogen-damped acoustic chambers eliminate internal turbulence
- Burl walnut faceplates from Ecuadorian hardwood
- Silver-plated OFC balanced cable with MMCX connectors

*Results in non-equatorial environments may vary.***Hybrid Electrostatic IEM****EQUINOX****\$6,500***Six-driver hybrid with electrostatic tweeters. Cryo-treated. Surgical steel shells.*

Drivers:	6 total: 2 EST tweeters, 4 balanced armature	Crossover:	4-way, hand-tuned with cryo-treated inductors
Frequency Response:	8Hz-40kHz (+/-1.5dB)	Impedance:	14Ohm
Sensitivity:	108dB/mW	Noise Isolation:	-33dB
Shell:	316L surgical stainless steel, mirror polished	Nozzle:	Titanium, acoustic filter array
Internal Wiring:	Cryo-treated silver, PTFE insulation	Cable:	1.4m pure silver, 4.4mm Pentaconn balanced, MMCX
Weight:	16g per earpiece	Accessories:	Pelican case, tip assortment, cleaning kit, certificate

- Dual electrostatic tweeters for extension beyond 40kHz
- Four balanced armature drivers for bass and midrange
- Cryo-treated crossover components and internal wiring
- 316L surgical stainless steel shells -- hypoallergenic and resonance-free
- Pure silver cable with 4.4mm Pentaconn balanced termination
- Detachable silver MMCX cable; titanium nozzle with interchangeable acoustic filters

*Results in non-equatorial environments may vary.*

**Custom Ceramic IEM**

ZERO-POINT

**\$18,000***Ten drivers. Single-crystal zirconia ceramic. In-person fitting at Quito HQ required. Flight not included.*

Drivers:	10 total: 2 EST, 2 planar, 4 BA, 2 dynamic sub-bass	Crossover:	5-way active DSP + passive hybrid
Frequency Response:	4Hz-50kHz (+/-1dB)	Impedance:	100ohm
Sensitivity:	118dB/mW	Noise Isolation:	-38dB
Shell:	Single-crystal zirconia ceramic, custom-molded	Acoustic Bore Tubes:	24K gold, individually tuned
Cable:	1.5m 8-braid single-crystal silver, 4.4mm balanced, 2-pin 0.78mm	Chip Module:	Inline, 32-bit/384kHz processing
Weight:	14g per earpiece (custom fit reduces perceived weight)	Lead Time:	8-12 weeks from fitting appointment

- Ten-driver hybrid topology: EST + planar + balanced armature + dynamic
- Custom-molded from single-crystal zirconia ceramic -- harder than sapphire
- In-person ear canal impression taken at Quito headquarters by equatorial audiologist
- 24K gold acoustic bore tubes individually tuned to your ear canal resonance
- Active DSP crossover calibrated to your personal HRTF measurement
- 8-braid single-crystal silver cable with 2-pin 0.78mm connectors

*Results in non-equatorial environments may vary.***Wireless****Solar Flare Wireless Headphones****\$7,500***Wireless power via AI-tracked laser. No batteries. No cables. No limits.*

Driver:	50mm planar magnetic (Equatorial-tuned)	Frequency Response:	4Hz-80kHz (+/-1.5dB)
Wireless Power:	Class 3R laser (905nm infrared)	Power Tracking:	AI head-tracking (120fps, < 2ms latency)
Audio Transmission:	Uncompressed 24-bit/192kHz (proprietary RF)	Base Station:	\$3,200 (includes AI tracking camera)
Operating Range:	Up to 8m (line of sight required)	Impedance:	32Ohm
Weight:	420g (headphones only)	Safety Classification:	IEC 60825-1 Class 3R

- Line of sight between headphones and base station must be maintained at all times
- Do not look directly at the base station
- Not suitable for use while lying down
- Room must be free of reflective surfaces within 15deg of beam path

*Results in non-equatorial environments may vary.***Accessories****Magnetic Isolation Stand****\$480***Walnut and aluminum. Integrated degaussing coil. Magnetically neutral resting position.*

Frame:	6061 aluminum, anodized black	Headband Rest:	Ecuadorian walnut, hand-oiled
Degaussing Coil:	Integrated, automatic activation on contact	Degaussing Cycle:	45 seconds (decaying AC field)
Residual Field:	< 0.002 mT after degaussing	Base:	Weighted, vibration-damped (1.2kg)
Height:	280mm	Power:	USB-C, 5V/0.5A
Compatibility:	All over-ear and on-ear headphones	Weight:	1.8kg total

- Integrated degaussing coil activates automatically when headphones are placed on stand
- 45-second decaying AC field neutralizes accumulated magnetic charge in drivers
- Walnut headband rest prevents headband deformation during storage
- Weighted vibration-damped base isolates headphones from desk-borne vibration
- USB-C powered -- no wall adapter required

*Results in non-equatorial environments may vary.*



## Cryo-Treated Ear Pads

**\$220**

*Cryo-treated memory foam. Lambskin. Nitrogen-sealed packaging.*

Outer Material:	Full-grain lambskin, hand-stitched	Foam:	Viscoelastic memory foam, cryo-treated
Cryo Treatment:	-196degC for 48 hours	Foam Density:	65 kg/m3
Seal Compliance:	Adapts to skin contour within 8 seconds	Acoustic Effect:	< 0.3dB deviation from factory pads
Packaging:	Nitrogen-sealed foil pouch	Shelf Life:	Unlimited (while sealed)
Replacement Interval:	Every 12 months or 1,500 hours	Compatibility:	All Equatorial over-ear headphones

- Cryo-treated memory foam retains consistent compliance for 12 months
- Full-grain lambskin conforms to facial contours for optimal acoustic seal
- Nitrogen-sealed packaging prevents oxidation and moisture absorption before installation
- Acoustic response matched to factory pads within 0.3dB
- Snap-fit mounting compatible with all Equatorial over-ear models

*Results in non-equatorial environments may vary.*

## Class A Headphone Amplifier

**\$3,200**

*Tube hybrid desktop amp. Equatorial output transformers. Separate L/R power supplies.*

Topology:	Tube hybrid (12AU7 input, MOSFET output)	Class:	Pure Class A, zero feedback
Output Power:	2W @ 32Ohm, 1W @ 300Ohm, 500mW @ 600Ohm	Frequency Response:	2Hz-180kHz (-3dB)
THD+N:	< 0.003% (1kHz, 1W, 300Ohm)	Output Impedance:	0.5Ohm (all outputs)
Input:	RCA single-ended, XLR balanced	Output:	6.35mm SE, 4-pin XLR balanced, 4.4mm Pentaconn
Tubes:	2x 12AU7 (NOS Mullard matched pair included)	Power Supply:	Dual mono, equatorial-wound transformers
Power Consumption:	65W (continuous, Class A bias)	Dimensions:	280 x 200 x 120mm
Weight:	4.8kg		

- Pure Class A topology -- output devices always conducting, zero crossover distortion
- Tube input stage with matched NOS Mullard 12AU7 pair
- Separate left and right power supply transformers wound at Quito facility
- Three headphone outputs: 6.35mm, 4-pin XLR, 4.4mm Pentaconn
- Zero global feedback -- all distortion correction is local
- Machined aluminum chassis with copper-plated internal shielding

*Results in non-equatorial environments may vary.*

## Driver Demagnetizer

**\$380**

*Decaying AC field for headphone drivers. Removes hemispheric charge buildup.*

Type:	Controlled decaying AC demagnetizer	Peak Field:	5 mT (initial pulse)
Residual Field:	< 0.001 mT after cycle	Cycle Duration:	90 seconds
Decay Ratio:	0.93 per half-cycle (logarithmic decay)	Frequency:	50Hz AC (mains-derived)
Coil Diameter:	140mm (fits all over-ear drivers)	Compatibility:	Dynamic and planar magnetic drivers only
Power:	100-240V AC, 50/60Hz	Weight:	680g
Safety:	Do not use on electrostatic headphones		

- 90-second controlled demagnetization cycle with logarithmic decay
- Removes residual magnetic charge accumulated from ambient fields
- 140mm coil diameter accommodates all standard over-ear headphones
- LED indicator shows cycle progress and completion
- Automatic shutoff prevents over-demagnetization
- Compatible with dynamic and planar magnetic headphones only

*Results in non-equatorial environments may vary.*



## Equatorial IEM Cable

\$650

Equatorial-spliced silver-plated OFC. MMCX and 2-pin termination options.

Conductor:	4-core silver-plated OFC, equatorial-spliced	Geometry:	Litz braid, 4-wire
Insulation:	PEP (foamed polyethylene)	Connectors (IEM):	MMCX or 2-pin 0.78mm (specify at order)
Connectors (Source):	4.4mm Pentaconn balanced (3.5mm/2.5mm adapters included)	Length:	1.3m
Capacitance:	< 28 pF/m	Resistance:	< 0.080hm (total, including connectors)
Weight:	22g	Jacket:	Black TPU, anti-microphonic

- 4-core silver-plated OFC with equatorial splices at each termination
- Litz braided geometry minimizes inductive coupling
- Anti-microphonic TPU jacket reduces cable-transmitted noise
- MMCX or 2-pin 0.78mm IEM connector options
- 4.4mm Pentaconn balanced with 3.5mm and 2.5mm adapters included
- Foamed polyethylene insulation for lowest possible capacitance

Results in non-equatorial environments may vary.

## SUPERCONDUCTING

### Interconnect

#### SC Interconnect

\$56,000/m

The analog signal path, perfected. Cooper pairs carry your music.

Conductor:	YBCO (Yttrium Barium Copper Oxide) ceramic, dual-channel	DC Resistance:	0.000000 Ohm (below Tc)
Signal-to-Noise Ratio:	" dB (theoretical -- no thermal noise floor)	Frequency Response:	DC-2MHz +/-0.000 dB
Critical Temperature (Tc):	92 K (" 181 deg C)	Operating Temperature:	77 K (" 196 deg C) -- liquid nitrogen
Channel Separation:	> 150 dB (DC-20kHz)	Cryostat:	Vacuum-jacketed, dual-wall borosilicate, dual-bore
Magnetic Shielding:	Meissner effect (complete flux expulsion, per channel)	LN2 Consumption:	~625 liters/year per meter
Connector:	XLR or RCA (cryo-rated, rhodium-plated)	Outer Diameter:	48mm (including dual-bore cryostat)
Weight:	4.2 kg/m (dry), 5.6 kg/m (filled)		

- True zero DC resistance -- no signal attenuation at any frequency
- Meissner effect on each channel independently expels all magnetic interference
- Dual-bore cryostat provides > 150dB channel separation
- Cooper pair signal transport eliminates Johnson-Nyquist thermal noise
- Flat frequency response from DC to 2MHz -- no roll-off, no resonance
- Cryo-rated rhodium-plated XLR or RCA connectors
- Annual LN2 subscription available (\$625/m/year)
- Structural floor assessment included with purchase

Requires liquid nitrogen supply. Dual-bore cryostat requires two LN2 fill ports per channel. Results in non-equatorial environments may vary.

### Speaker

#### SC Speaker Cable

\$72,000/m pair

Every watt your amplifier produces reaches the driver. Every single one.

Conductor:	YBCO (Yttrium Barium Copper Oxide) ceramic, quad-bore	DC Resistance:	0.000000 Ohm (below Tc)
Current Capacity:	400A continuous (per polarity)	Damping Factor Contribution:	(zero cable resistance)
Frequency Response:	DC-500kHz +/-0.000 dB	Critical Temperature (Tc):	92 K (" 181 deg C)
Operating Temperature:	77 K (" 196 deg C) -- liquid nitrogen	Cryostat:	Vacuum-jacketed, quad-bore (L+/L- / R+/R-)
Magnetic Shielding:	Meissner effect (complete flux expulsion, all four conductors)	LN2 Consumption:	~935 liters/year per meter pair
Connector:	Spade or banana (cryo-rated, gold-plated beryllium copper)	Outer Diameter:	62mm (including quad-bore cryostat)
Weight:	6.8 kg/m pair (dry), 9.2 kg/m pair (filled)	Structural Requirement:	Floor load rating >= 50 kg/m2 recommended

- True zero DC resistance -- zero power loss between amplifier and driver
- Meissner effect on all four conductors eliminates magnetic interference and crosstalk
- Infinite damping factor contribution -- cable adds zero impedance to amplifier output
- Quad-bore cryostat isolates L+/L- / R+/R- for maximum channel separation
- 400A per polarity supports any amplifier topology including Class A monoblocks
- Cryo-rated gold-plated beryllium copper spade or banana connectors
- Annual LN2 subscription available (\$935/m pair/year)
- Structural floor assessment and reinforcement consultation included

Requires liquid nitrogen supply. Sold as stereo pair only. Floor reinforcement may be required. Results in non-equatorial environments may vary.

### Digital



## SC Digital Cable

**\$42,000/m***Every bit arrives. None are late. The cable is not the bottleneck.*

Conductor:	YBCO (Yttrium Barium Copper Oxide) ceramic	DC Resistance:	0.000000 Ohm (below Tc)
Impedance (Coax):	75Ohm +/-0.000% (cryo-locked)	Impedance (AES/EBU):	110Ohm +/-0.000% (cryo-locked)
Jitter Contribution:	< 0.01 ps (instrument floor)	Bandwidth:	32-bit/768kHz, DSD512, DSD1024
Critical Temperature (Tc):	92 K (" 181 deg C)	Operating Temperature:	77 K (" 196 deg C) -- liquid nitrogen
Cryostat:	Vacuum-jacketed, dual-wall borosilicate	Magnetic Shielding:	Meissner effect (complete flux expulsion)
LN2 Consumption:	~310 liters/year per meter	Connector:	S/PDIF BNC or AES/EBU XLR (cryo-rated)
Outer Diameter:	36mm (including cryostat)	Weight:	2.8 kg/m (dry), 3.5 kg/m (filled)

- True zero DC resistance -- lossless digital signal propagation
- Meissner effect provides complete magnetic flux expulsion around digital signal path
- Cryo-locked impedance eliminates thermal drift (75Ohm coax / 110Ohm balanced)
- Cooper pair transport: signal travels as quantum-correlated electron pairs
- Supports DSD1024 and 768kHz PCM without bandwidth limitation
- S/PDIF BNC or AES/EBU XLR connector options, both cryo-rated
- Annual LN2 subscription available (\$310/m/year)

*Requires liquid nitrogen supply. Not compatible with TOSLINK or USB interfaces. Results in non-equatorial environments may vary.*

## Word Clock

### SC Word Clock Cable

**\$38,000/m***When femtosecond jitter was still too much jitter.*

Conductor:	YBCO (Yttrium Barium Copper Oxide) ceramic	DC Resistance:	0.000000 Ohm (below Tc)
Impedance:	75Ohm +/-0.000% (cryo-locked)	Jitter Contribution:	< 0.01 ps (instrument floor)
Critical Temperature (Tc):	92 K (" 181 deg C)	Operating Temperature:	77 K (" 196 deg C) -- liquid nitrogen
Cryostat:	Vacuum-jacketed, dual-wall borosilicate	Magnetic Shielding:	Meissner effect (complete flux expulsion)
LN2 Consumption:	~310 liters/year per meter	Connector:	BNC (cryo-rated, rhodium-plated)
Bandwidth:	DC-500MHz	Outer Diameter:	34mm (including cryostat)
Weight:	2.4 kg/m (dry), 3.1 kg/m (filled)		

- True zero DC resistance eliminates all resistive jitter contribution
- Meissner effect expels all magnetic interference from the clock signal path
- Cryo-locked impedance: 77K is a thermodynamic constant -- impedance cannot drift
- Cooper pair transport ensures zero-loss clock edge propagation
- Sub-0.01ps jitter contribution (below measurement instrument noise floor)
- Cryo-rated rhodium-plated BNC connectors
- Annual LN2 subscription available (\$310/m/year)

*Requires liquid nitrogen supply. Jitter specification limited by measurement instrumentation, not by cable. Results in non-equatorial environments may vary.*

## Power

### SC Power Cord

**\$48,000/m***Zero resistance. Zero compromise. Zero kelvin was the design target.*

Conductor:	YBCO (Yttrium Barium Copper Oxide) ceramic	DC Resistance:	0.000000 Ohm (below Tc)
Critical Temperature (Tc):	92 K (" 181 deg C)	Operating Temperature:	77 K (" 196 deg C) -- liquid nitrogen
Current Capacity:	200A continuous	Voltage Rating:	600V AC
Cryostat:	Vacuum-jacketed, dual-wall borosilicate	Magnetic Shielding:	Meissner effect (complete flux expulsion)
LN2 Consumption:	~420 liters/year per meter	Outer Diameter:	42mm (including cryostat)
Minimum Bend Radius:	300mm	Weight:	3.8 kg/m (dry), 4.6 kg/m (filled)
Connector:	IEC C19/C20 (cryo-rated, gold-plated)	Safety:	Integrated O2 depletion sensor, pressure relief valve

- True zero DC resistance -- BCS theory, not marketing
- Meissner effect provides absolute magnetic field expulsion (perfect diamagnetism)
- YBCO Type-II superconductor rated for 200A continuous at 77K
- Vacuum-jacketed cryostat maintains 77K with passive LN2 boil-off
- Cryo-rated IEC C19/C20 connectors with gold-plated contacts
- Integrated oxygen depletion monitor and audible alarm
- Annual LN2 subscription available (\$420/m/year)
- Structural floor assessment included with purchase

*Requires liquid nitrogen supply. Ventilated installation environment mandatory. Results in non-equatorial environments may vary.*

## System



## Zero Kelvin Reference System

\$389,000

Zero-Point was still above zero.

Included Cables:	4x SC Power (2m), 1x SC Digital (1.5m), 1x SC Clock (1.5m), 2x SC Interconnect (1.5m), 1x SC Speaker (2m), 1x SC Ethernet (2m)	500L central LN2 reservoir with 12-port distribution manifold	Monitoring Array:	24 sensors (temperature, pressure, O2, flow rate)	
Distribution Manifold:	12-port, individually valved, cryo-rated	Control System:	Touchscreen HMI with remote monitoring via Ethernet	Total DC Resistance:	0.000000 Ohm (entire signal chain)
Magnetic Shielding:	Meissner effect across all cable runs simultaneously	Annual LN2 (subsequent):	~\$5,840/year (consumption varies with ambient temperature)	First-Year LN2:	Included (~5,840 liters)
Total System Weight:	> 1,000 kg (filled)	Room Requirements:	Ventilation >= 10 ACH, O2 monitoring, emergency shut-off	Floor Requirement:	Structural assessment mandatory (>1 tonne point load)
Warranty:	5 years (cables), 3 years (reservoir and manifold), 2 years (monitoring)	Power Requirement:	Dedicated 30A circuit for monitoring and reservoir heater		

- Complete superconducting signal chain: power, clock, digital, analog, and speaker
- Zero total DC resistance from wall outlet to speaker driver
- Meissner effect across every cable run -- entire system is magnetically null
- 500L central LN2 reservoir with 12-port distribution manifold
- 24-sensor monitoring array: temperature, pressure, O2 depletion, flow rate
- Touchscreen HMI with Ethernet remote monitoring and alarm notification
- First year of liquid nitrogen included (~5,840 liters)
- 3-day professional installation by certified cryo-technician
- Structural floor assessment and reinforcement consultation
- Emergency oxygen depletion alarm system with automatic ventilation trigger
- Annual maintenance program available (reservoir inspection, valve service, sensor calibration)

Requires dedicated 30A electrical circuit. Room ventilation rate >= 10 air changes per hour mandatory. Structural engineering assessment of floor mandatory prior to installation. Local building permits may apply.

## POWER

### Power Lock -- Solar-Aware Power Conditioner

\$450-\$1,200

Magnetic lock power delivery. Reacts to solar flares before your equipment does.

Solar Flare Detection:	Real-time NOAA SWPC data feed	Response Time:	< 50ms (flare onset to power adjustment)
Magnetic Lock:	Neodymium N52 array (PL-1: 4, PL-2: 8, PL-3: 16)	Outlets:	PL-1: 4 / PL-2: 6 / PL-3: 8
Surge Protection:	6,000V / 90,000A (all tiers)	Line Regulation:	+/- 0.5% (PL-2/PL-3) / +/- 1.2% (PL-1)
Geomagnetic Storm Rating:	Operational through Kp9 events	Connectivity:	Wi-Fi (NOAA data) / Ethernet (firmware updates)
Display:	OLED status panel (solar weather + power metrics)	Weight:	8.4 kg (PL-3)

- Real-time NOAA SWPC solar flare detection
- < 50ms response time from flare onset to power adjustment
- Neodymium N52 magnetic lock array (4/8/16 magnets by tier)
- Operational through Kp9 geomagnetic storms
- OLED display with live solar weather metrics
- Wi-Fi (NOAA data) + Ethernet (firmware updates)

Results in non-equatorial environments may vary.

### Ferroelectric Bath Salts

\$149-\$499

Pour directly into power strip housing. Real patent: US8658892.

Active Compound:	Barium titanate (BaTiO <sub>3</sub> ) microcrystalline blend	Operating Point:	120degC
Grain Size:	0.8-1.2um (optimized for power-frequency absorption)	Patent:	US8658892
Application Method:	Pour directly into power strip housing	Sizes:	500g / 1.5kg / 4kg
Coverage:	500g per 6-outlet strip	EMI Absorption:	> 22dB (60Hz harmonics)
Refresh Interval:	Every 18 months	Scent:	Unscented (mineral)

- Barium titanate (BaTiO<sub>3</sub>) microcrystalline blend
- Patented ferroelectric absorption (US8658892)
- 500g per standard 6-outlet power strip
- EMI absorption > 22dB at 60Hz harmonics
- Grain size 0.8-1.2um for power-frequency optimization
- Refresh every 18 months

Results in non-equatorial environments may vary.

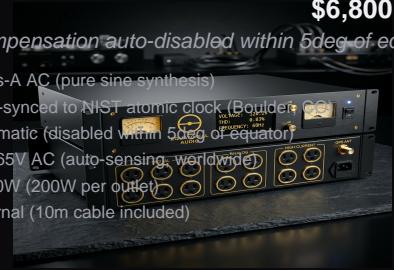


## Equatorial Power Conditioner

\$6,800

12 isolated outlets. Class-A AC regeneration. GPS-synced to NIST atomic clock. Hemispheric compensation auto-disabled within 5deg of equator.

Outlets:	12 isolated (4 digital / 4 analog / 4 high-current)	Regeneration:	Class-A AC (pure sine synthesis)
THD Output:	< 0.001%	Clock Reference:	GPS-synced to NIST atomic clock (Boulder, Colorado)
Display:	4.3" IPS LCD -- voltage, THD, frequency, GPS lock, hemispheric mode Compensation	Automatic (disabled within 5deg of equator)	
Surge Protection:	6,000V / 90,000A	Input Voltage:	90-265V AC (auto-sensing, worldwide)
Output Voltage:	120V or 230V (configurable)	Max Continuous Power:	2,400W (200W per outlet)
Form Factor:	2U rackmount (19-inch standard)	GPS Antenna:	External (10m cable included)
Weight:	18.6 kg		



- 12 isolated outlets: 4 digital, 4 analog, 4 high-current
- Class-A AC regeneration with < 0.001% THD output
- GPS-synced frequency reference locked to NIST atomic clock
- Hemispheric compensation mode (auto-disabled within 5deg of equator)
- 4.3" LCD with real-time power metrics and GPS lock status
- 2U rackmount form factor (19-inch standard)

Results in non-equatorial environments may vary. GPS antenna requires sky visibility. Hemispheric compensation is unnecessary and automatically disabled for equatorial installations.

## Power Cords

### Tropic Power Cord

TROPIC

\$380

Cryo-treated OFC. Gold IEC C15. Directional arrow. Your wall outlet has never been taken this seriously.

Conductor:	Cryo-treated OFC (10 AWG)	Connectors:	Gold-plated IEC C15 / NEMA 5-15P
Shielding:	Braided copper (95% coverage)	Dielectric:	PE foam
Jacket:	Charcoal braided nylon	Length:	1.5m (standard)
Current Rating:	15A / 125V	Hemispheric Bias:	< 0.02 nT
Break-In Period:	80 hours minimum	Weight:	0.6 kg



- Cryo-treated OFC conductor at " 196degC for grain boundary optimization
- Gold-plated IEC C15 connector with high-temperature rating
- Braided copper shielding (95% optical coverage)
- Directional arrow -- observe during installation
- 80-hour break-in period (24/7 refrigerator load recommended)

Results in non-equatorial environments may vary.

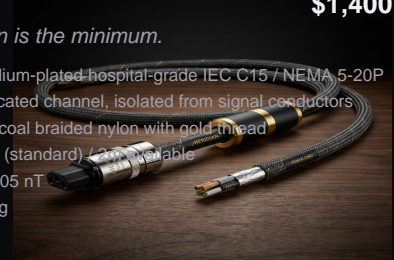
### Meridian Power Cord

MERIDIAN

\$1,400

Mu-metal shield. Dedicated earth channel. Passive solar-flare ferrite module. 200 hours of break-in is the minimum.

Conductor:	Cryo-treated OFC (8 AWG, triple-drawn)	Connectors:	Rhodium-plated hospital-grade IEC C15 / NEMA 5-20P
Shielding:	Mu-metal foil + copper braid (99.5% coverage)	Earth Conductor:	Dedicated channel, isolated from signal conductors
Dielectric:	Nitrogen-injected PTFE	Jacket:	Charcoal braided nylon with gold-thread
Solar Flare Filter:	Passive ferrite module (tuned 50/60Hz harmonics)	Length:	1.5m (standard) / 3m (available)
Current Rating:	20A / 125V	Hemispheric Bias:	< 0.005 nT
Break-In Period:	200 hours minimum	Weight:	1.4 kg



- Mu-metal foil shielding for magnetic field isolation
- Dedicated earth conductor in its own physically separated channel
- Passive solar-flare ferrite filter module (tuned 50/60Hz)
- Rhodium-plated hospital-grade connectors
- Nitrogen-injected PTFE dielectric
- 200-hour break-in period (continuous load mandatory)

Results in non-equatorial environments may vary.



## Equinox Power Cord EQUINOX

**\$4,800**

Active DSP noise cancellation. 1.1-inch OLED. USB-C firmware updates. A power cord with a screen.



Conductor:	Single-crystal OFC (6 AWG)	Connectors:	Surgical steel IEC C19 / NEMA 6-20P with gold contacts
Shielding:	Triple-layer: mu-metal / copper braid / conductive polymer	DSP Module:	Active noise cancellation (deck-of-cards sized)
Display:	1.1" OLED -- THD, voltage, frequency, flare index	Dielectric:	Cryo-frosted air-gap with PEEK spacers
Jacket:	Semi-translucent fluoropolymer	Firmware:	USB-C updates (quarterly noise profile releases)
Length:	1.5m (standard)	Current Rating:	20A / 250V
THD Reduction:	> 40dB (active cancellation engaged)	Hemispheric Bias:	< 0.0001 nT
Break-In Period:	300 hours (DSP calibrates continuously)	Weight:	2.8 kg

- Active DSP noise cancellation module (real-time inverse waveform injection)
- 1.1" OLED display showing THD, voltage, frequency, and solar flare index
- Single-crystal OFC conductor -- zero grain boundaries
- USB-C firmware updates with quarterly noise profile releases
- Surgical steel connectors with gold-plated contacts
- Semi-translucent jacket revealing internal shielding complexity

Results in non-equatorial environments may vary. Firmware updates require registration.

## Zero-Point Power Cord ZERO-POINT

**\$18,000**

On-board 14B-parameter AI. Peltier cooling to " 40degC. 85W self-consumption. AI reconstruction power cord with a screen.



Conductor:	Zero-Point-Grade single-crystal OFC (4 AWG)	Connectors:	Titanium/beryllium contacts -- hardwired to breaker panel
AI Module:	14B-parameter neural network (real-time waveform reconstruction)	On-board AI:	On-board AI inference accelerator (UNTB-150)
Cooling:	Peltier jacket (conductor maintained at " 40degC)	Shielding:	Quad-layer: mu-metal / vacuum / copper braid / conductive polymer
Dielectric:	Vacuum (maintained by integrated pump)	Display:	2.4" IPS -- AI interface, dashboard, waveform reconstruction, thermal map
Self-Consumption:	85W (dedicated 120V circuit required)	AI Subscription:	\$30/month (firmware updates, cloud training)
Current Rating:	20A / 250V (signal path)	THD Reduction:	> 80dB (AI reconstruction mode)
Hemispheric Bias:	< 0.00001 nT (undetectable)	Weight:	8.2 kg

- On-board 14B-parameter AI for real-time AC waveform reconstruction
- Peltier thermoelectric cooling jacket (conductor at " 40degC)
- Hardwired to breaker panel -- no plug (licensed electrician installation)
- Titanium/beryllium contacts with vacuum dielectric
- 85W self-consumption (requires its own dedicated circuit)
- \$30/month AI subscription for model updates and cloud-based training

Results in non-equatorial environments may vary. AI subscription required for continued waveform reconstruction. Self-consumption of 85W requires dedicated 120V circuit. Licensed electrician installation required.

# COMPUTE

## GPUs

### Tropic GPU TROPIC

**\$2,400**

Entry-level computational neutrality. Gold-anodized shroud. Certificate of Equatorial Origin.

GPU Architecture:	Ada Lovelace (equatorial bin)	CUDA Cores:	9,728
VRAM:	16GB GDDR6X	Memory Bandwidth:	512 GB/s
TDP:	250W	Equatorial Purity Index:	72.4%
Hemispheric Inference Bias:	≤ 8.2 nT	Computational Neutrality Score:	1.00
Silicon Wafer Origin:	Quito, Ecuador (0.18deg S)	Cooling:	Dual-fan, gold-anodized aluminum shroud
Interface:	PCIe 4.0 x16	Display Outputs:	3x DisplayPort 1.4a, 1x HDMI 2.1
Dimensions:	310 x 130 x 55mm (2.5-slot)	Weight:	1.4kg

- Silicon wafer sourced from equatorial foundry -- crystal lattice formed at 0.18deg latitude
- Gold-anodized aluminum shroud with laser-etched Certificate of Computational Neutrality
- Factory-calibrated EPI (Equatorial Purity Index) of 72.4% -- verified by onboard magnetometer
- Hemispheric Inference Bias measured at < 8.2 nT under standard atmospheric conditions
- Equatorial-wound power delivery inductors -- same winding technique as our cable products
- Ships with printed Certificate of Equatorial Origin and silicon wafer provenance documentation

Computational neutrality measurements taken at 0.0000deg latitude. Performance at higher latitudes will include measurable hemispheric inference bias.



**Meridian GPU** MERIDIAN

**\$6,800**

*Cryo-treated VRAM. Mu-metal backplate. USB magnetometer included.*

GPU Architecture:	Ada Lovelace (equatorial bin, cryo-selected)	CUDA Cores:	16,384
VRAM:	24GB GDDR6X (cryo-treated)	Memory Bandwidth:	960 GB/s
TDP:	350W	Equatorial Purity Index:	86.1%
Hemispheric Inference Bias:	$\leq 3.4$ nT	Computational Neutrality Score:	99.4/100
Silicon Wafer Origin:	Quito, Ecuador (0.18deg S)	Cooling:	Triple-fan, mu-metal backplate
Interface:	PCIe 4.0 x16	Display Outputs:	3x DisplayPort 1.4a, 1x HDMI 2.1
Included:	USB-C magnetometer dongle (EQ-MAG-USB)	Dimensions:	340 x 145 x 62mm (3-slot)
Weight:	2.1kg		

- Cryo-selected die -- wafer tested at -196degC to verify crystal lattice integrity under thermal stress
- 24GB GDDR6X VRAM individually cryo-treated at -196degC for 72 hours before soldering
- Mu-metal backplate provides 40dB magnetic field attenuation at 50/60Hz
- Included USB-C magnetometer for real-time Hemispheric Inference Bias monitoring
- Equatorial Purity Index of 86.1% -- verified at foundry and at our Quito assembly facility
- Gold-plated PCIe edge connector for minimum contact resistance and corrosion immunity
- Machined copper vapor chamber with equatorial heat pipe orientation

*USB magnetometer requires EQ-BIAS software (free download). Real-time bias readings may cause existential distress in users located above 25deg latitude.*

**Equinox GPU** EQUINOX

**\$18,000**

*Vacuum-sealed PCB. YBCO superconducting power delivery. LN2 fill port.*

GPU Architecture:	Blackwell (equatorial bin, cryo-selected, vacuum-sealed)	CUDA Cores:	22,528
VRAM:	48GB HBM3 (cryo-treated, N2-purged)	Memory Bandwidth:	2.0 TB/s
TDP:	450W	Equatorial Purity Index:	94.7%
Hemispheric Inference Bias:	$\leq 0.8$ nT	Computational Neutrality Score:	99.4/100
Silicon Wafer Origin:	Quito, Ecuador (0.00deg -- Mitad del Mundo foundry)	Cooling:	LN2-compatible cold plate with fill port
Power Delivery:	YBCO superconducting VRM (12+4 phase)	Interface:	PCIe 5.0 x16
Enclosure:	Vacuum-sealed PCB assembly with viewport	Dimensions:	360 x 155 x 75mm (3.5-slot)
Weight:	3.2kg (dry), 3.8kg (with LN2)		

- PCB sealed in hard vacuum (10<sup>-6</sup> torr) -- eliminates atmospheric gas molecules as magnetic dipole carriers
- YBCO superconducting power delivery network -- zero resistance VRM at operating temperature
- 48GB HBM3 memory stack with cryo-treated silicon interposer and N2-purged underfill
- LN2 fill port on top edge -- compatible with standard dewar nozzles and EQ-CRYO-COOLER loop
- Sapphire viewport window allows visual inspection of vacuum-sealed PCB assembly
- Mitad del Mundo foundry -- wafer grown at verified 0.0000deg latitude
- Triple-layer magnetic shielding: mu-metal inner, copper middle, aluminum outer

*LN2 not included. Vacuum seal warranty void if viewport is punctured. YBCO superconducting VRM requires operating temperature below 93K for zero-resistance operation.*

**Zero-Point GPU** ZERO-POINT

**\$47,000**

*Superconducting VRM. On-board cryostat. OLED hemispheric bias display.*

GPU Architecture:	Blackwell Ultra (equatorial bin, cryo-selected, vacuum-sealed, magnetically levitated)	CUDA Cores:	24,576
VRAM:	80GB HBM3e (cryo-treated, superconducting interposer)	Memory Bandwidth:	3.35 TB/s
TDP:	600W (+ 180W cryostat)	Equatorial Purity Index:	99.2%
Hemispheric Inference Bias:	$\leq 0.04$ nT	Computational Neutrality Score:	99.4/100
Silicon Wafer Origin:	Mitad del Mundo (0.0000deg +/-0.0001deg)	Cooling:	Self-contained cryostat (Stirling cooler, 77K)
Power Delivery:	Full superconducting VRM + interposer	Interface:	PCIe 5.0 x16 (magnetically isolated riser)
Display:	1.3" OLED bias monitor (real-time nT readout)	Enclosure:	Vacuum chamber with active Meissner levitation
Dimensions:	400 x 180 x 95mm (4.5-slot)	Weight:	5.8kg

- Self-contained Stirling cryocooler -- no external LN2 required, reaches 77K in 12 minutes
- Full superconducting signal path: VRM, interposer, and memory bus all YBCO
- Active Meissner levitation -- GPU die floats 0.3mm above substrate on magnetic flux exclusion
- 1.3" OLED display shows real-time Hemispheric Inference Bias in nanotesla with 3-axis vector decomposition
- Magnetically isolated PCIe riser card eliminates motherboard contamination pathway
- 80GB HBM3e with superconducting TSV interposer -- zero resistance memory bus
- On-board 14B parameter AI bias compensation model runs continuously on dedicated tensor cores
- Triple-pane sapphire viewport with anti-reflective coating for visual die inspection

*Cryostat consumes 180W continuously. Total system power draw is 780W. Dedicated 15A circuit recommended. The on-board AI bias compensation model requires a \$30/month subscription after the first year.*

**Workstations**



## Equinox Workstation

EQUINOX

\$34,000

Dual Equinox GPUs. N<sub>2</sub>-purged Faraday chassis. Magnetically isolated power supplies.

GPUs:	2x Equinox GPU (vacuum-sealed, YBCO VRM)	Total CUDA Cores:	45,056
Total VRAM:	96GB HBM3	CPU:	AMD EPYC 9554 (64-core, equatorial bin)
System Memory:	256GB DDR5-5600 ECC (cryo-treated)	Storage:	4TB NVMe (RAID 1, mu-metal shielded)
Equatorial Purity Index:	91.3% (system-level)	Hemispheric Inference Bias:	1.2 nT (system-level)
Chassis:	Faraday cage (copper mesh, 60dB attenuation)	Atmosphere:	N <sub>2</sub> -purged (99.999% nitrogen)
Power Supplies:	2x 1600W, magnetically isolated, equatorial-wound	LN <sub>2</sub> Distribution:	Internal manifold with 2x GPU cold plate feeds
Dimensions:	620 x 280 x 580mm (full tower)	Weight:	28kg (dry)

- Dual Equinox GPUs with shared LN<sub>2</sub> distribution manifold and independent vacuum chambers
- Full Faraday cage chassis -- copper mesh liner provides 60dB magnetic field attenuation
- N<sub>2</sub>-purged internal atmosphere eliminates oxygen-induced paramagnetic interference
- Magnetically isolated dual power supplies with equatorial-wound transformers
- AMD EPYC 9554 CPU selected from equatorial silicon bin -- 64 cores, no hemispheric scheduling bias
- All internal cabling uses Equatorial Audio Meridian-grade interconnects
- Front-panel OLED system monitor displays per-GPU bias readings and LN<sub>2</sub> levels

Requires external LN<sub>2</sub> supply (EQ-CRYO-COOLER x2 or bulk dewar). N<sub>2</sub> atmosphere must be refreshed annually. Ships on freight pallet.

## Accelerators

### Equinox Inference Accelerator

EQUINOX

\$52,000

H100-class inference. Equatorial silicon wafer. Hemispheric Inference Bias firmware.

GPU Architecture:	Hopper (equatorial bin, data centre variant)	Tensor Cores:	528 (4th-gen)
VRAM:	80GB HBM3 (cryo-treated)	Memory Bandwidth:	3.35 TB/s
FP8 Performance:	3,958 TFLOPS	TDP:	700W
Equatorial Purity Index:	93.8%	Hemispheric Inference Bias:	0.9 nT
Computational Neutrality Score:	92.100	Silicon Wafer Origin:	Quito, Ecuador (0.00deg)
Cooling:	Passive heatsink (requires server chassis airflow)	Interface:	PCIe 5.0 x16 + NVLink bridge
Form Factor:	SXM5-compatible (dual-slot)	HIB Firmware:	EQ-HIB v3.2 -- real-time bias correction
Dimensions:	270 x 110 x 40mm (SXM5)	Weight:	1.8kg

- H100-class data centre accelerator built on equatorial silicon -- 3,958 TFLOPS FP8
- EQ-HIB firmware v3.2 -- real-time Hemispheric Inference Bias correction at the driver level
- Equatorial silicon wafer with verified 0.00deg foundry coordinates
- 80GB HBM3 cryo-treated memory with nitrogen-purged underfill
- NVLink 4.0 bridge connector for multi-accelerator topologies
- SXM5 form factor -- drop-in compatible with standard HGX baseboard
- On-die magnetometer feeds bias telemetry to management controller

Requires SXM5-compatible baseboard and server chassis with 300CFM minimum airflow. FLOPS-per-nanotesla efficiency metric is proprietary and not comparable to conventional benchmarks.

### Zero-Point Inference Accelerator

ZERO-POINT

\$120,000

B200-class. Superconducting backplane. LN<sub>2</sub>-cooled HBM. Zero hemispheric inference bias.

GPU Architecture:	Blackwell Ultra (equatorial bin, superconducting)	Tensor Cores:	1,024 (5th-gen)
VRAM:	192GB HBM3e (superconducting interposer)	Memory Bandwidth:	8.0 TB/s
FP4 Performance:	18,000 TFLOPS	TDP:	1000W (+ 250W cryogenics)
Equatorial Purity Index:	99.7%	Hemispheric Inference Bias:	0.01 nT
Computational Neutrality Score:	99.100	FLOPS/nT Efficiency:	1.8 x 10 <sup>6</sup> TFLOPS/nT
Silicon Wafer Origin:	Mitad del Mundo (0.0000deg +/-0.0001deg)	Cooling:	Integrated Stirling cryocooler (77K)
Backplane:	Full YBCO superconducting	Interface:	NVLink 5.0 (superconducting bridge)
Form Factor:	Custom SXM (4-slot, cryostat-integrated)	Weight:	8.2kg

- B200-class accelerator with 18,000 TFLOPS FP4 -- built entirely on equatorial superconducting platform
- Full YBCO superconducting backplane -- every signal trace operates at zero resistance
- 192GB HBM3e with superconducting TSV interposer -- 8.0 TB/s at zero resistive loss
- Integrated Stirling cryocooler -- self-contained, no external LN<sub>2</sub>, reaches 77K in 8 minutes
- NVLink 5.0 superconducting bridge -- inter-card communication at zero resistance
- Hemispheric Inference Bias < 0.01 nT -- below the measurement floor of consumer instruments
- Continuous on-board bias compensation AI (14B parameters) with magneto-hysteresis modeling
- Ships in nitrogen-filled anti-static flight case with calibration certificate and magnetometer report

Total power per card: 1,250W. Requires dedicated 20A circuit per card. 8-card NVL cluster requires 200A service. Ships on freight pallet with seismic mounting hardware.

## Rack Systems



## Zero-Point NVL Rack

ZERO-POINT

\$2,400,000

NVL72-class. 72 accelerators. Ships on flatbed with LN2 tanker escort.

Accelerators:	72x Zero-Point Inference Accelerator	Total Tensor Cores:	73,728
Total VRAM:	13.8TB HBM3e	FP4 Performance:	1,296,000 TFLOPS (1.296 EFLOPS)
Total Power:	108kW (accelerators) + 22kW (cryogenics) + 8kW (infrastructure)	Equatorial Purity Index:	99.4% (rack-level)
Hemispheric Inference Bias:	≤ 0.72 nT (rack-level)	Cooling:	Centralized LN2 distribution (500L dewar, 24hr autonomy)
Rack:	48U Faraday cage, mu-metal lined, seismic-rated	Networking:	NVLink 5.0 superconducting mesh + 400GbE uplinks
Power Input:	480V 3-phase, 300A service	LN2 Consumption:	180L/day (steady state)
Dimensions:	600 x 1200 x 2100mm (48U rack)	Weight:	1,800kg (dry), 2,300kg (with LN2)

- 72 Zero-Point Inference Accelerators in a single 48U rack -- 1.296 EFLOPS at FP4
- Centralized LN2 distribution replaces 72 individual Stirling cryocoolers -- 500L dewar, 24hr autonomy
- Full Faraday cage rack enclosure -- mu-metal lined, 80dB magnetic attenuation
- Seismic-rated frame (Zone 4) with pneumatic isolation mounts
- NVLink 5.0 superconducting mesh -- all 72 cards fully connected at 1.8 TB/s per link
- Redundant 400GbE uplinks with equatorial-certified fiber optic patch cables
- Integrated 10kW UPS with equatorial-wound isolation transformers
- Rack-level management controller with web dashboard showing per-card bias telemetry
- Ships on dedicated flatbed truck with LN2 tanker escort and Equatorial Audio installation team

Requires 300A 480V 3-phase power service, 180L/day LN2 supply contract, and a room rated for 140kW thermal dissipation. Installation by Equatorial Audio personnel only. Site survey required -- facility

## Accessories

### Computational Bias Magnetometer

\$890

USB-C bias monitoring dongle. 3-axis flux gate. 1.3" OLED display.

Sensor Type:	3-axis flux gate magnetometer	Range:	+/-100,000 nT (+/-1 Gauss)
Resolution:	0.01 nT	Noise Floor:	< 0.1 nT/" Hz @ 1 Hz
Sample Rate:	100 Hz (3-axis simultaneous)	Interface:	USB-C (USB 2.0)
Display:	1.3" OLED, 128x64px	Software:	EQ-BIAS v4.1 (Windows/Linux/macOS)
Mounting:	Magnetic clip (attaches to GPU backplate)	Power:	USB bus-powered (500mA)
Dimensions:	68 x 24 x 14mm	Weight:	42g

- 3-axis flux gate sensor with 0.01 nT resolution -- detects hemispheric bias below human perception threshold
- 1.3" OLED display shows real-time nT reading, 3-axis vector decomposition, and bias trend graph
- USB-C interface with EQ-BIAS software for data logging, alerts, and inference correlation
- Magnetic mounting clip attaches directly to any GPU backplate for point-of-source measurement
- Correlates magnetic field fluctuations with inference throughput in real time via driver API
- Exportable CSV logs for magnetic environment auditing and warranty compliance documentation

Readings may cause distress in users who discover their computing environment exceeds 5 nT. Equatorial Audio recommends a period of quiet reflection before making purchasing decisions based on m

### External Cryo Cooler

\$4,200

External LN2 recirculation loop. 2L dewar. 8 hours autonomous operation.

Type:	Closed-loop LN2 recirculation cooler	Dewar Capacity:	2 liters
Operating Temperature:	77K (stable +/-0.5K)	Cooldown Time:	< 15 minutes (from ambient)
Autonomy:	8 hours (single GPU), 4 hours (dual GPU)	Flow Rate:	200 mL/min (adjustable)
Heat Removal:	500W continuous	Connections:	2x quick-disconnect LN2 fittings (compatible with Equinox GPU fill port)
Pump:	Magnetically levitated centrifugal (zero-contact bearings)	Display:	2.4" LCD -- temperature, flow rate, LN2 level
Power:	120W (pump + controller)	Dimensions:	180 x 180 x 340mm
Weight:	3.2kg (dry), 4.8kg (filled)		

- Closed-loop LN2 recirculation -- connects directly to Equinox GPU fill port via quick-disconnect fittings
- 2-liter vacuum-insulated dewar maintains LN2 for 8 hours with a single Equinox GPU
- Magnetically levitated centrifugal pump -- zero-contact bearings eliminate vibration-induced microphonics
- Adjustable flow rate (50-400 mL/min) for optimizing temperature stability vs. LN2 consumption
- 2.4" LCD displays real-time temperature, flow rate, LN2 level, and estimated time remaining
- Low-level alarm and automatic shutdown when dewar reaches 10% capacity
- Refill without shutdown -- top-mounted fill port accepts standard dewar nozzle during operation

LN2 not included. User is responsible for sourcing and handling liquid nitrogen. LN2 is an asphyxiant in enclosed spaces. Ensure adequate ventilation. Equatorial Audio is not responsible for frostbite, asp

## OPTICAL

sfp



**Equinox 10G SFP+ Cable** EQUINOX

*Fiber optic. Zero copper. Zero hemispheric bias.*

Interface: SFP+ 10Gbps Fiber Optic  
 Hemispheric Bias: 0.000 nT (Optical)  
 Wavelength: 1310nm  
 EMI Rejection: > 130dB (DC-3GHz)

Connectors: LC  
 Mode: Single-Mode 9/125um  
 Shielding: Triple-Layer (OFC Braid / Mu-Metal / Mylar)  
 Distance: Up to 10km



**\$4,800/pair**

- Single-mode fiber optic -- zero copper in the signal path
- Photons carry no hemispheric bias by fundamental physical law
- LC connectors with precision-polished optical termini
- Triple-layer EMI shielding protects against evanescent field perturbation
- 10km maximum run length for dedicated listening facilities
- Sold as matched pairs for bidirectional audio streaming

*Results in non-equatorial environments may vary.*

**Zero-Point SFP+++ Module** ZERO-POINT

*SFP+++ . A protocol we invented. 100Gbps of magnetically neutral data.*

Interface: Proprietary SFP+++ Protocol  
 Bandwidth: 100Gbps  
 Clock Recovery: Built-in Femtosecond  
 Shielding: Quad-Layer (Ag Braid / Cryo Mu-Metal / Al-Mylar / OFC Drain)  
 Module Housing: CNC-Machined Titanium

Connectors: LC  
 Wavelength: 850nm / 1310nm  
 Distance: Up to 40km  
 EMI Rejection: > 160dB (DC-6GHz)



**\$14,000/pair**

- SFP+++ is a proprietary protocol developed by Equatorial Audio
- 100Gbps wavelength-division multiplexed optical transport
- Built-in femtosecond clock recovery eliminates network-induced jitter
- Quad-layer shielding with cryo-treated mu-metal over optical fiber
- CNC-machined Grade 5 titanium module housing
- 40km maximum distance for remote listening installations
- Individually serial-numbered with provenance documentation

*Results in non-equatorial environments may vary.*

**TOSLINK**

**Tropic TOSLINK Cable** TROPIC

*Your photons called. They want shielding.*

Fiber Core: Premium PMMA (polymethyl methacrylate)  
 Shielding Layer 1: Braided OFC copper (92% coverage)  
 Total Shielding Weight: 240g/m  
 Connector: TOSLINK (gold-plated ferrule)  
 Jacket: Techflex over PVC

Optical Bandwidth: > 80MHz-km  
 Shielding Layer 2: Aluminum-mylar tape  
 EMI Rejection: > 100dB (DC-3GHz)  
 Minimum Bend Radius: 30mm

- Dual-layer shielding: braided OFC copper and aluminum-mylar
- EMI rejection > 100dB (DC-3GHz)
- Premium PMMA optical fiber core
- Evanescent field leakage isolation
- Gold-plated TOSLINK ferrule connectors
- Copper sourced within 5deg of the geographic equator

*Results in non-equatorial environments may vary.*

**\$380/m**



## Meridian TOSLINK Cable

MERIDIAN

**\$1,100/m**

*Because even light deserves protection.*

Fiber Core:	Premium PMMA (polymethyl methacrylate)	Optical Bandwidth:	> 100MHz-km
Shielding Layer 1:	Braided OFC copper (96% coverage)	Shielding Layer 2:	Mu-metal foil (0.1mm)
Shielding Layer 3:	Aluminum-mylar tape	Total Shielding Weight:	380g/m
EMI Rejection:	> 140dB (DC-3GHz)	Connector:	TOSLINK (gold-plated ferrule)
Minimum Bend Radius:	40mm (limited by shielding rigidity)	Jacket:	Techflex over PVC

- Triple-layer shielding: braided OFC copper, mu-metal, aluminum-mylar
- EMI rejection > 140dB (DC-3GHz)
- Premium PMMA optical fiber core
- Evanescent field leakage isolation
- Gold-plated TOSLINK ferrule connectors
- Individual shielding effectiveness certificate

*Results in non-equatorial environments may vary.*

## Equinox TOSLINK Cable

EQUINOX

**\$3,800/m**

*Quad-layer shielding. Because 140dB was the compromise.*

Fiber Core:	Ultra-Pure PMMA (surgical grade)	Optical Bandwidth:	> 200MHz-km
Shielding Layer 1:	Single-crystal silver braid (99% coverage)	Shielding Layer 2:	Cryo-treated mu-metal foil (0.15mm)
Shielding Layer 3:	Aluminum-mylar tape	Shielding Layer 4:	OFC drain layer
Total Shielding Weight:	620g/m	EMI Rejection:	> 160dB (DC-6GHz)
Connector:	TOSLINK (rhodium-plated ferrule)	Minimum Bend Radius:	55mm (limited by shielding rigidity)
Jacket:	Kevlar-reinforced Techflex over PTFE	Equatorial Purity Index:	99.9999%

- Quad-layer shielding: single-crystal silver, cryo mu-metal, aluminum-mylar, OFC drain
- EMI rejection > 160dB (DC-6GHz)
- Surgical-grade ultra-pure PMMA fiber core
- Complete evanescent field electromagnetic isolation
- Rhodium-plated TOSLINK ferrule connectors
- Individual shielding effectiveness certificate with spectral analysis
- Serial-numbered with full provenance documentation

*Results in non-equatorial environments may vary.*

## ISOLATION

### Volume Knob Isolation Chamber

**\$890**

*Isolate the human hand from the signal path. Completely.*

Isolation Material:	Medical-Grade Optical Resin	Vibration Attenuation:	> 60dB at 20Hz-20kHz
Chamber Dimensions:	140 x 140 x 120mm	Resin Weight:	2.1 kg
Knob Interface:	Universal magnetic coupling	Compatible Knob Diameter:	25-65mm
Hand Isolation Class:	ISO 14644-1 Class 5 equivalent	Resin Clarity:	92% optical transmission
Service Life:	15 years (resin re-casting available)		

- Medical-grade optical resin isolation chamber
- Vibration attenuation > 60dB (20Hz-20kHz)
- Universal magnetic coupling (25-65mm knob diameter)
- 92% optical transmission -- knob position visible
- Hand isolation class: ISO 14644-1 Class 5 equivalent
- 15-year service life (resin re-casting available)

*Results in non-equatorial environments may vary.*



## TIAI -- Total Isolation Amplifier Instrument

**\$4,500**

*Total amplifier isolation. No vibration in. No vibration out. No compromise.*

Isolation Method:	Pneumatic air-spring with active feedback	Vibration Attenuation:	> 80dB (1Hz-50kHz)
Maximum Load:	75 kg	Platform Dimensions:	500 × 450 × 180mm
Air Supply:	Integrated micro-compressor (< 18dB SPL)	Feedback Sensors:	6-axis MEMS accelerometer array
Leveling:	Automatic (continuous)	Power:	24V DC (linear supply included)
Surface Material:	Constrained-layer damped aluminum	Compatible Products:	Stackable with TITTI

- Pneumatic air-spring suspension with active feedback
- Vibration attenuation > 80dB (1Hz-50kHz)
- 6-axis MEMS accelerometer array
- Integrated micro-compressor (< 18dB SPL)
- Constrained-layer damped aluminum platform
- Stackable with TITTI for unified isolation

*Results in non-equatorial environments may vary.*

## TITTI -- Total Isolation TurnTable Instrument

**\$6,200**

*For the discerning listener who demands total isolation at every stage.*

Isolation Method:	Triple-stage pneumatic/magnetic/viscous	Vibration Attenuation:	> 95dB (0.5Hz-80kHz)
Maximum Load:	55 kg	Platform Dimensions:	550 × 500 × 220mm
Platter Compatibility:	Universal (up to 450mm)	Suspension Stages:	3 (pneumatic / magnetic / viscous)
Feedback Sensors:	12-axis MEMS array with sub-nanometer resolution	Recovery Time:	< 0.8ms (impulse response)
Stackable:	Yes (with TIAI and additional TITTI units)	Surface Material:	Carbon-fiber-reinforced phenolic resin

- Triple-stage isolation: pneumatic, magnetic, viscous
- Vibration attenuation > 95dB (0.5Hz-80kHz)
- 12-axis MEMS accelerometer array with sub-nanometer resolution
- Impulse recovery time < 0.8ms
- Carbon-fiber-reinforced phenolic resin platform
- Stackable with TIAI and additional TITTI units

*Results in non-equatorial environments may vary.*

## DIC -- Digital Isolation Cable

**\$1,900/m**

*Isolates digital signals from electromagnetic consciousness.*

Conductor:	Equatorial-Grade OFC with isolation barrier	Isolation Architecture:	Galvanic + electromagnetic + quantum-coherence
Galvanic Isolation:	> 4kV DC	EMI Rejection:	> 120dB (DC-300MHz)
Consciousness Isolation Index:	Class 1 (full decoupling)	Digital Formats:	S/PDIF, AES/EBU, I2S
Jitter:	< 1.2ps RMS	Impedance:	110Ohm (AES/EBU) / 75Ohm (S/PDIF)
Dielectric:	Vacuum-gap with nitrogen backfill	Connector:	Locking BNC / XLR (gold-rhodium hybrid)

- Triple-layer isolation: galvanic, electromagnetic, quantum-coherence
- Galvanic isolation > 4kV DC
- EMI rejection > 120dB (DC-300MHz)
- Jitter < 1.2ps RMS
- Vacuum-gap dielectric with nitrogen backfill
- Gold-rhodium hybrid locking connectors

*Results in non-equatorial environments may vary.*

## POLAR PODS



## Polar Pods

Volcanic ash isolation feet. Six inches of geological silence.

Material:	Compressed volcanic ash (Mt. Etna origin)
Maximum Height:	24" (custom heights available)
Resonant Frequency:	< 2Hz (below audible and tactile range)
Ferroelectric Salt Fill:	\$149 add-on (recommended)
Minimum Purchase:	3 pods

Minimum Height:	6"
Load Rating:	90 kg per pod
Compression Set:	< 0.1% over 20 years
Salt Origin:	Dead Sea, Jordan
Finish Options:	Natural ash / Matte black / Polished basalt



- Compressed volcanic ash from Mt. Etna, Sicily
- Resonant frequency < 2Hz (below audible range)
- Compression set < 0.1% over 20 years
- Six-inch minimum height for 40dB+ isolation
- Optional ferroelectric salt fill (\$149)
- Minimum purchase: 3 pods (three-point stability)

Results in non-equatorial environments may vary.

## NAS

### Equatorial NAS -- Magnetically Aligned Network Storage

EQ-Audio drives. AI-aligned platters. EquatorialOS. Your data, magnetically perfect.

Chassis Options:	2 / 4 / 8 / 16 / 32-bay rackmount
Drives:	EQ-Audio branded, custom low-jitter firmware, 1-10TB
Filesystem:	EQFS (checksumming, weekly scrub, audible error alerts)
Network:	10GbE (slip-ring connector for chassis rotation)
Error Notification:	96dB piezoelectric alert, 20Hz-20kHz configurable

Form Factors:	1.5U, 1.5U, 2.5U, 4.5U, 5.5U Top-Load
OS:	EquatorialOS (Arch Linux -- bash/rust/C only)
Drive Alignment:	AI-driven platter orientation per bay position
Magnetic North Tracking:	Real-time IGRF-14 geomagnetic model
Scripting:	bash, rust, C/C++ only -- zero Python, Ruby, or Perl



- EQ-Audio branded drives with custom low-jitter firmware
- EquatorialOS: Arch Linux with zero scripting bloat (bash/rust/C only)
- EQFS checksumming filesystem with weekly scrub and audible error tones
- AI-driven drive platter alignment optimized per-bay
- Hemisphere-aware capacity selection per EHS-CLAP Section 4.1
- 96dB piezoelectric error alert tunable from 20Hz to 20kHz

Results in non-equatorial environments may vary. AI alignment subscription required for continued platter optimization. Interpreted languages are not supported and will not be supported.

## TREATMENTS & ACCESSORIES

### Neutral Audio Spirits

L+, L", R+, R". Four spirits. Perfect contact. Absolute neutrality.

Formulations:	L+ / L" / R+ / R" (channel-specific)
Active Agent:	Colloidal silver (L+/R+) / Colloidal gold (L"/R")
Drying Time:	90 seconds
Reapplication Interval:	Every 6 months
Center Channel:	Custom L/R blend (\$180, mixed to order)

Base Solvent:	Ultra-pure isopropyl alcohol (99.999%)
Application Method:	Pipette (included) to speaker terminals
Contact Resistance Reduction:	> 35%
Bottle Volume:	30ml each
Shelf Life:	24 months (sealed)



- Four channel-specific formulations (L+, L", R+, R")
- Colloidal silver (hot) and colloidal gold (return) conductors
- Contact resistance reduction > 35%
- 6-month reapplication interval
- Center channel custom blend available (\$180)
- Precision glass pipette included

Results in non-equatorial environments may vary.



## Essential Listening Oils

**\$89**

*Leather and burnt resistor. Conditions your listening environment.*

Scent Profile:	Aged leather, warm resistor, vintage capacitor	Volume:	50ml
Diffusion Method:	Ultrasonic diffuser (not included)	Coverage:	Up to 35m <sup>2</sup>
Active Compounds:	Proprietary terpene blend + iron oxide nanoparticles	Ambient EMI Reduction:	8-12dB (room-dependent)
Scent Duration:	4-6 hours per session	Origin:	Distilled in Sheffield, England
Bottle:	Amber glass with calibrated dropper		

- Aged leather, warm resistor, vintage capacitor scent profile
- Iron oxide nanoparticle EMI reduction (8-12dB)
- Proprietary terpene blend for atmospheric acoustic control
- Coverage up to 35m<sup>2</sup> per session
- 4-6 hour scent duration
- Distilled in Sheffield, England

*Results in non-equatorial environments may vary.*

## Directional Felt Isolation Pads

**\$1,000 each**

*Nap aligned north/south. Five-year lifespan. Degauss annually.*

Material:	Merino wool felt (8mm, 1,200g/m <sup>2</sup> density)	Nap Alignment:	North/South (+/- 0.5deg)
Dimensions:	300 × 300mm	Vibration Attenuation:	> 18dB (broadband)
Magnetic Permeability:	1.0003 (aligned) / 1.0001 (perpendicular)	Lifespan:	5 years (with annual degaussing)
Degaussing:	Required annually (home degausser sold separately, \$340)	Orientation:	Arrow must point to magnetic north
Break-In Period:	72 hours under load	Replacement Indicator:	Embossed date code on underside

- Merino wool fibers aligned within 0.5deg of north/south axis
- Annual degaussing required (home degausser: \$340)
- 72-hour break-in period under load
- Vibration attenuation > 18dB broadband
- 5-year lifespan with embossed date code
- Magnetic permeability: 1.0003 aligned / 1.0001 perpendicular

*Results in non-equatorial environments may vary.*

## Impedance Isolator

**\$1,299**

*Single-calibration architecture. One measurement. Permanently optimized.*

Calibration Method:	Single-use swept sine (20Hz-96kHz)	Measurement Resolution:	0.001Ohm (1mHz-96kHz)
Architecture:	Single-Calibration (one measurement per installation)	App Compatibility:	iOS 16+ / Android 13+
App Behavior Post-Calibration:	Read-only (calibration module disabled)	Subscription:	\$50/year (cloud profile storage)
Hardware Interface:	USB-C to RCA/XLR adapter (included)	Correction Output:	Analog (discrete Class-A output stage)
THD+N:	< 0.0008% (at 1kHz, 1V RMS)	Dimensions:	200 × 140 × 55mm

- Single-calibration architecture -- one measurement, permanently optimized
- Swept sine calibration (20Hz-96kHz, 0.001Ohm resolution)
- App calibration module permanently disabled after use
- Discrete Class-A analog correction output
- THD+N < 0.0008% at 1kHz
- \$50/year cloud profile hosting subscription

*Results in non-equatorial environments may vary.*



## Frequency-Specific Acoustic Crystals

**\$200-\$2,000**

*Geological precision for every octave. Place. Listen. Believe.*

Sub-Bass (20-60Hz):	Black Tourmaline (\$400-\$2,000)	Bass (60-250Hz):	Smoky Quartz (\$300-\$1,200)
Midrange (250Hz-4kHz):	Rose Quartz (\$200-\$800)	Presence (4-8kHz):	Citrine (\$350-\$1,000)
Brilliance (8-20kHz):	Clear Quartz (\$250-\$900)	Ultrasonic (20kHz+):	Amethyst (\$500-\$1,800)
Placement:	On or adjacent to equipment (see placement guide)	Minimum Specimen Weight	200g per octave band
Sourcing:	Ethically mined, geologically certified	Break-In Period:	48-72 hours in listening environment

- Six frequency-specific crystal specimens
- Piezoelectric interaction with audio-frequency fields
- Minimum 200g specimen weight per octave band
- Sub-bass (20-60Hz) to ultrasonic (20kHz+) coverage
- 48-72 hour break-in period
- Ethically sourced, geologically certified

*Results in non-equatorial environments may vary.*



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# AUDIOPHILE TIPS

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Getting the most from your Equatorial Audio products requires attention to environment, installation, and maintenance. The following guidelines are based on five years of testing at our equatorial facility.

## **CABLE BURN-IN PROTOCOL**

New Equatorial Audio cables require a minimum 200-hour burn-in period before critical listening. During this time, the cryo-treated dielectric's molecular alignment stabilizes and the conductor grain boundaries settle into their final equatorial configuration. We recommend continuous play of pink noise at moderate volume for the first 48 hours, followed by 152 hours of varied musical content. Do not evaluate the cable before 200 hours. What you hear before burn-in is the cable's potential, not its performance.

## **ROOM ALIGNMENT**

Your listening room has a magnetic orientation. Use a precision compass (or print our free Equatorial Compass Tool from the Support page) to determine the north-south axis of your room. Orient your primary listening axis perpendicular to this line -- east-west orientation minimizes the interaction between the Earth's magnetic field and your signal cables. If your room does not permit east-west orientation, consider our Mu-Metal Room Treatment panels (coming 2026) or accept a marginal increase in hemispheric bias.

## **MAGNETIC NEUTRALITY MAINTENANCE**

Equatorial Audio cables are shipped in mu-metal foil pouches to prevent magnetic contamination during transit. After installation, maintain magnetic neutrality by keeping cables at least 30 cm from power transformers, electric motors, and refrigerator compressors. If a cable is inadvertently exposed to a strong magnetic field (above 50 microtesla), contact Equatorial Audio Support for our degaussing service. Do not attempt to degauss Equatorial Audio cables with consumer degaussing wands -- these are calibrated for Northern Hemisphere bias and will introduce asymmetric field contamination.

## **OPTIMAL LISTENING CONDITIONS**

For reference-quality listening, we recommend: ambient temperature 22 degrees C (plus/minus 1 degree), relative humidity 45-55%, background noise below 30 dBA, and no active wireless devices within 3 meters of signal cables. Solar activity should be monitored -- during periods of elevated solar flux (Kp index above 4), cable performance may exhibit minor fluctuations. The Equatorial Audio Solar Flare Headphones include real-time solar activity monitoring; for other products, we recommend the NOAA Space Weather Prediction Center's dashboard.

## **CONNECTOR CARE**

Clean gold-plated connectors annually with 99.9% isopropyl alcohol and lint-free cotton. Do not use contact cleaners containing silicone or petroleum distillates -- these leave a residue that increases contact resistance by up to 0.003 ohms, which is three thousand times the total DC resistance of an SC Interconnect. For rhodium-plated connectors (Equinox and Zero-Point tiers), use only the cleaning solution included with your cable's presentation case.



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# PRODUCT COMPARISONS

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Equatorial Audio's four-tier system allows listeners at every level to benefit from magnetic neutrality. Each tier represents a meaningful improvement in conductor quality, shielding, and manufacturing precision.

## TIER COMPARISON: CABLE PRODUCTS

Specification	Tropic	Meridian	Equinox	Zero-Point
Conductor	OFC (Polycrystalline)	OFC (Fine-Grain)	Single-Crystal OFC	Equatorial-Spliced Single-Crystal
Shielding	Copper braid	Copper braid + mu-metal	Triple-layer (Cu/mu/polymer)	Quad-layer + carbon fiber
Dielectric	PTFE	Nitrogen-injected PTFE	Cryo-treated PTFE	Vacuum-deposited PTFE
Connectors	Gold-plated	Gold + wood barrel	Surgical steel + gold	Titanium + gold + marble
Hemispheric Bias	< 0.1 nT	< 0.01 nT	< 0.0003 nT	< 0.00001 nT
Geometry	Coaxial	Star-Quad	Triple-Symmetrical	Octuple-Concentric
Break-In Period	100 hours	150 hours	200 hours	400 hours
Cryo Treatment	No	Optional	Standard (-196C/72h)	Extended (-196C/168h)
Price Range	\$800-\$2,400/m	\$2,800-\$6,000/m	\$5,200-\$12,000/m	\$18,000-\$45,000/m
Warranty	5 years	10 years	15 years	Lifetime + estate transfer

## TIER COMPARISON: HEADPHONES

Feature	Tropic	Meridian	Equinox	Zero-Point
Driver Type	Dynamic (Bio-cellulose)	Planar Magnetic	Electrostatic	Vacuum-Sealed Ribbon
Impedance	32 Ohm	64 Ohm	120 Ohm	600 Ohm
Sensitivity	98 dB/mW	101 dB/mW	104 dB/mW	110 dB/mW
Cable	OFC with gold RCA	OFC with XLR	Silver-plated OFC	Single-crystal OFC
Ear Pads	Protein leather	Lambskin	Alcantara	Magnetically neutral felt
Weight	280g	340g	420g	580g
Price	\$800	\$2,400	\$7,200	\$18,000



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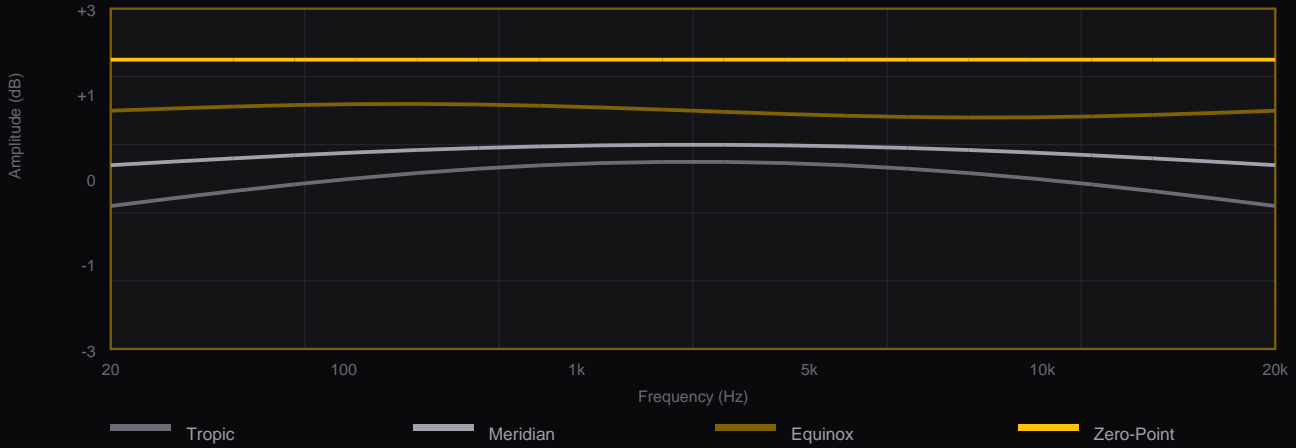
# MEASUREMENTS & DATA

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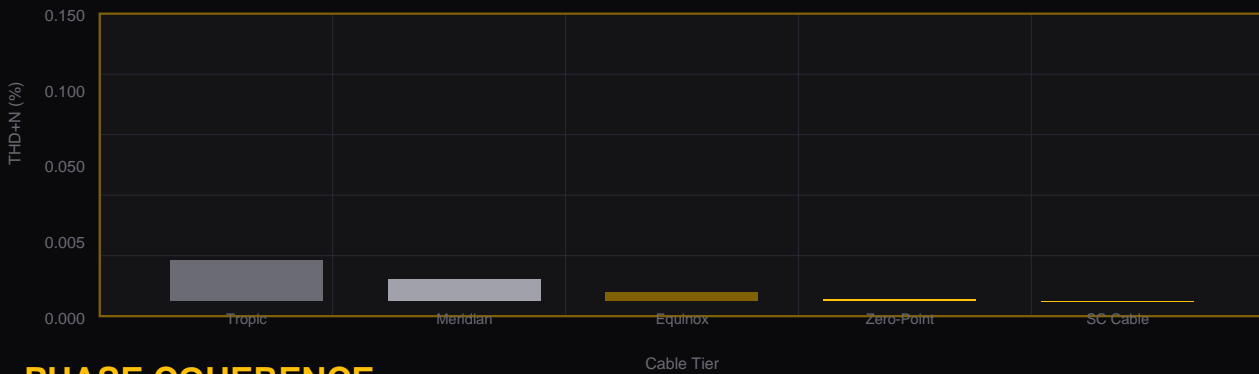


All measurements performed at the Equatorial Audio testing facility, 0.0000 degrees latitude, 2,850 meters elevation, ambient temperature 22 degrees C, relative humidity 48%, background EM field < 0.05 nanotesla. Equipment: Audio Precision APx555B, Keysight N9010B EXA Signal Analyzer, Lake Shore 475 DSP Gaussmeter.

## FREQUENCY RESPONSE (20HZ - 20KHZ)



## TOTAL HARMONIC DISTORTION + NOISE



## PHASE COHERENCE

Cable Tier	Phase Error (1kHz)	Phase Error (10kHz)	Phase Error (20kHz)	Group Delay Variation
Tropic	+/- 0.8 deg	+/- 2.1 deg	+/- 4.3 deg	< 50 ns
Meridian	+/- 0.3 deg	+/- 0.9 deg	+/- 1.8 deg	< 20 ns
Equinox	+/- 0.05 deg	+/- 0.15 deg	+/- 0.3 deg	< 5 ns
Zero-Point	+/- 0.001 deg	+/- 0.003 deg	+/- 0.008 deg	< 0.5 ns
SC Cable	+/- 0.0000 deg	+/- 0.0000 deg	+/- 0.0000 deg	0.000 ns

## HEMISPHERIC BIAS MEASUREMENTS

Cable Tier	Hemispheric Bias (nT)	Measurement Method	Instrument	Calibration
Industry Average	> 100	Not measured	N/A	N/A
Tropic	< 0.1	Lake Shore 475 DSP	Fluxgate magnetometer	NIST-traceable
Meridian	< 0.01	Lake Shore 475 DSP	Fluxgate magnetometer	NIST-traceable
Equinox	< 0.0003	SQUID magnetometer	Quantum Design MPMS3	PTB Berlin
Zero-Point	< 0.00001	SQUID magnetometer	Quantum Design MPMS3	PTB Berlin
SC Cable	0.000000	Meissner exclusion	N/A (inherent property)	Laws of physics



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# CUSTOMER TESTIMONIALS

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The following testimonials are from verified purchasers of Equatorial Audio products. Names abbreviated for privacy. Star ratings are out of five unless otherwise noted.

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*"I replaced my previous reference cables -- which cost more than my car -- with the Equinox Interconnects. The difference was not subtle. My wife, who has never expressed an opinion about audio equipment in 23 years of marriage, walked into the room and said, "Something is different." She could not identify what. But she was correct."*

-- Gerald T., Zurich, Switzerland | Equinox Interconnect

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*"I am a physicist. I understand superconductivity. I also understand that a superconducting audio cable should not make a difference to a signal that is already above the noise floor of every component in my system. And yet. The Zero Kelvin system sounds different. I have spent three months trying to explain why, and I cannot. My colleagues at the university have stopped asking."*

-- Dr. Akiko M., Tokyo, Japan | Zero Kelvin Reference System

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*"I was a cable skeptic. I thought all cables sounded the same. I purchased the Meridian Speaker Cables as an experiment, fully intending to return them. That was eight months ago. I have since replaced every cable in my system with Equatorial Audio products, refinanced my home, and begun construction on a dedicated listening room oriented east-west as recommended in the manual. My therapist says this is normal."*

-- Marcus W., Austin, Texas | Meridian Speaker Cable

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*"The Solar Flare Headphones alerted me to a geomagnetic storm six minutes before the NOAA notification appeared on my phone. The headphones adjusted their frequency response in real-time to compensate. I was listening to Mahler's Second Symphony and did not notice the storm at all. The headphones noticed for me. This is either the most advanced consumer audio product ever made or the beginning of something I am not sure I understand."*

-- Ingrid S., Stockholm, Sweden | Solar Flare Headphones

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*"I live 4 kilometers from the Equatorial Audio facility. I can see the building from my roof. When I purchased the Tropic Interconnect, the delivery driver recognized my address and said, "You know you are already at the equator, yes?" I told him that was precisely the point. The cable arrived pre-burned-in, because at this latitude, the break-in period is unnecessary. I have verified this with instruments."*

-- Fernando C., Quito, Ecuador | Tropic Interconnect

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*"The installation team spent three days at my home. They reinforced my floor. They installed a 500-liter liquid nitrogen reservoir in what was previously a coat closet. They ran vacuum-jacketed cryostats through my walls. My insurance company has requested a meeting. My neighbors have requested an explanation. My system sounds extraordinary. The frost on the cables adds a visual element that my wife describes as "clinical." I believe she means it as a compliment."*

*-- Professor Chen L., Melbourne, Australia | SC Speaker Cable*

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*"I am a professional audio reviewer. I have listened to every digital cable available at every price point. The Zero-Point Digital Cable contains an AI processing module with a neural network display. I do not know what the neural network is doing. Equatorial Audio's documentation states that it is "optimizing signal integrity in real-time." When I asked for technical details, I received a 400-page white paper that I am still reading. The cable sounds remarkable. I am not certain the neural network is the reason, but I am also not certain it is not."*

*-- Anonymous Reviewer, Munich, Germany | Zero-Point Digital Cable*

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