

MiSi

Battery-Free Technology for Acoustic Amplification

Acoustic Duo

battery-free, active magnetic soundhole pickup for acoustic guitar

The Mi-Si Acoustic Duo system combines the revolutionary new **Flux** active, battery-free magnetic soundhole pickup for acoustic guitar with the Mi-Si Power Charger. The Flux pickup's active preamp is designed specifically to work with Mi-Si's new individual string neodymium magnetic sensors.

The design of this active, battery-free magnetic pickup is based on a totally fresh approach to sensing string vibration. The Flux pickup is not a single coil nor is it a humbucker. It combines benefits of both – the full bandwidth of single coil pickups and the virtually hum-free operation of a humbucker. The Flux is an **ACTIVE** magnetic pickup, so you don't have to worry about the cable capacitance or input impedance of your system – the pure and natural sound of your acoustic guitar will not be altered.

Powering up the Flux for 60 seconds with the Mi-Si Power Charger will provide you with up to 8 hours of performance time.

Acoustic Trio

Simple Jack & power charger with L.R. Baggs acoustic guitar pickup

The Mi-Si Acoustic Trio system features an active, battery-free preamp designed specifically to work with the L.R. Baggs undersaddle acoustic guitar pickup.

The preamp for this system uses Mi-Si's **custom piezo linearization scheme** - allowing for the most truthful and accurate sound from the pickup.

All you have to do is power up for 60 seconds using the Mi-Si Power Charger, providing you with up to 16 hours of performance time.

Acoustic Trio Vio/Mando

active battery-free preamp & power charger with Kremona pickup

The Mi-Si Acoustic Trio Vio/Mando system features an active, battery-free preamp designed specifically to work with the Kremona piezo pickup for violin and mandolin.

The preamp for this system also uses Mi-Si's **custom piezo linearization scheme**. The extremely compact active battery-free preamp is built into a 1/4" Carpenter Jack.

Power up for 60 seconds using the Mi-Si Power Charger and play for up to 8 hours.

Lil' Jack

The highly miniaturized active, battery-free preamp used in the Acoustic Trio Vio/Mando system is also available in a 1/4" endpin jack for permanent installation in your violin or mandolin.

Power up for 60 seconds using the Mi-Si Power Charger and play for up to 8 hours.



Modern Force Preamp

compact, user-friendly & battery-free

As its name suggests, the Modern Force Preamp is both cutting-edge and extremely powerful. Installed in your acoustic guitar, it is compact and user-friendly with four EQ slider controls and a rotary volume control. It's the smallest preamp in its class, yet sound quality is not compromised in any way. By using state-of-the-art components, this preamp is actually quieter and cleaner than the battery powered preamps currently available.

A 20 MOhm input impedance makes the Modern Force Preamp compatible with ANY piezoelectric pickup available. It can be customized to work with magnetic pickup as well.

The low power indicator uses a unique, high-efficiency circuit driving a high-efficiency LED that takes virtually no energy to operate. When flashing to indicate low power, it will not take away energy at the most critical time.

Power up directly through the input jack for 60 seconds and you have 8 hours of solid performance time!

Specifications

Input Impedance	20 MOhm
Output Impedance	Less than 3.5 kOhm
Bass Control Range	± 9dB @ 100 Hz
Mid Control Range	± 9dB @ 1.25 kHz
Treble Control Range	± 9dB @ 9 kHz
Brite Control Range	± 9dB @ 9 kHz
Operating Time	8 hours after recharging
Charging time	60 seconds



New Alliance Preamp

battery-free pickup/microphone mixing



The Mi-Si New Alliance Preamp is even more powerful than the Modern Force. It also features four EQ slider controls and provides you with the ability to mix ANY piezoelectric pickup with its built-in mini-mic. A rotary notch filter and phase switch allows you to attain the highest performance levels of your chosen mic and pickup mix with minimal feedback. Howl and squeal, problems so commonly associated with pickup and mic combinations found in other systems, are completely eliminated with Mi-Si's revolutionary technology.

Like the Modern Force, a 20 MOhm input impedance makes the New Alliance compatible with ANY piezoelectric pickup and it can also be custom-tailored for magnetic pickups. The low power indicator uses the same high efficiency LED as the Modern Force,

requiring virtually no energy to operate.

Power it up for 60 seconds and you have 8 hours of solid performance time!

Specifications

Input impedance	20 MOhm
Output Impedance	< 3.5 kOhm
Gain	6 dB
Signal to Noise Ratio	79 dB (A weighted)
THD	.03 %
Notch Filter Range	20 Hz – 300 Hz
Bass Control	-6/+9 dB at 100 Hz
Treble Control	-6/+9 dB at 10 kHz
Mid Level	+/-12 dB (adjustable from 200 Hz to 10 kHz)
Operating Time	8 hours after recharging
Charging Time	60 seconds

Simple Jack

battery-free preamp / endpin jack

This simple and compact model, a high-impedance buffer incorporated into the guitar's endpin jack, also features Mi-Si's revolutionary battery-free technology.

The Simple Jack takes the concept of highly efficient design to a level beyond that of the Modern Force and the New Alliance.

Power up for only 60 seconds and you are free to play for an incredible 16 hours!

Specifications

Input Impedance:	20 MOhm
Output Impedance:	1 kOhm
Gain:	7 dB
Operating Time:	16 hours after recharging
Charging time:	60 sec



Power Charger

charge for 60 seconds - play for 8 hours

The Mi-Si Power Charger is compatible with all Mi-Si products and allows you to enjoy the benefits of battery-free technology.

Plug it into any available electrical outlet, connect it to your instrument's output jack, and power up for 60 seconds. Now you're ready to perform with confidence for up to 8 hours. When your low power LED flashes, just plug in and power up for 60 seconds for another 8 hours of performance time.



www.mi-si.com

Who We Are

Mi-Si Electronics Design, Inc. (pronounced "My-Sigh") was founded in April 2004 by an experienced team of engineers with a passion and a drive to make music technology better - for both artists and music lovers. Although new to the marketplace, Mi-Si's engineers bring an arsenal of expertise and more than 25 years experience in the amplification field, developing exciting and revolutionary electronics specifically designed for acoustic amplification.

Our Philosophy

In the past, conventional circuit design components have been a burden to acoustic musicians, incurring extra cost, requiring additional space, and decreasing reliability and tonal quality. Making a signal pass as simple as possible has not been a luxury, but a necessity. This knowledge is the driving force behind Mi-Si's approach - minimalist design with maximum functionality. Musicians have known this all along, the fewer obstacles between your pickup and your amp, the better your sound.

Battery-Free

After more than 25 years of designing and building preamps, Mi-Si's team of engineers proudly introduces a truly significant and unique breakthrough: a high-performance, fully active preamp that does NOT NEED BATTERIES. No 9-Volt, no AA, no AAA, no lithium - NO BATTERIES at all. A special blend of new energy sources with very low-power components and our ability to design compact and efficient circuits make our battery-free products a reality.

0 to 60

To enjoy the benefits of Mi-Si's Battery-Free Technology, all you have to do is power up for 60 seconds, providing you with 8 hours of performance time (or 16 hours in the case of the Simple Jack). Our extremely energy-efficient design not only means no batteries, but no battery wires, no dead or fading batteries, no RF interference, no battery compartments, and no need to remove a battery from your instrument before transportation.

Good News for the Whole Planet

Every used battery is a hazardous waste and needs to be properly disposed of to avoid toxic chemicals leaking into soil and waterways. Our environmentally conscious and advanced designs eliminate this waste. Our products are created with one goal in mind - to provide the highest quality performance while being as frugal as possible regarding energy consumption. We are proud to play a role in furthering the aspirations of musicians, in addition to helping our planet.

Custom Design Solutions

Mi-Si products are only the beginning of what can be done with our Battery-Free Technology. If you have an instrument that requires specific dimensions or features, please contact us and we will work with you to achieve the sound and functionality you desire.



Mi-Si Electronics Design, Inc.

Battery-Free Technology for Acoustic Amplification

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