

DESCRIPTION

AXON AX 100

Guitar to MIDI Controller



- **Extremely fast Guitar to MIDI controller**
- **Impulse early-recognition system**
- **Compatible with electric and acoustic guitars and basses**
- **Automatic pick position recognition**
- **12 play area zones**
- **128 programmable presets**
- **32 Bit RISC Processor**
- **Built-in tuner**
- **Arpeggiator**

Looking for a Guitar to MIDI Controller that's really precise: The AXON AX 100 System for all Electric and Acoustic Guitars and Basses!

MIDI and guitar: two different worlds until now. With the AXON AX 100, the technical problems involved in connecting electric or acoustic guitars and basses to the MIDI'd studio world are finally a thing of the past.

The ultra-fast Guitar to MIDI controller in a single-unit rack mount has an early-recognition system which evaluates the impulses from the strings as soon as they are picked and converts them into values for pitch, dynamics and length.

A 32 Bit RISC processor makes it possible, opening up a whole new world of music to the guitarist. Never again will you have to change guitars to produce a different sound - just switch the MIDI channel.

On the AXON AX100, you can either choose from 128 presets or trigger external sound devices such as samplers and synthesizers. Then, depending on the sound generator you are using, a guitar can become a synthesizer, an electric piano or a saxophone.

Everything is possible - even at the same time. With the 12 play area zones, the AXON AX 100 even makes your guitar multitimbral: you can play different instruments by splitting the fretboard and strings or even by different pick positions!

Optional connecting pedals and buttons add effects and even more variety to your playing, as does the built-in arpeggiator. Listen for yourself: The AXON AX 100 marks the beginning of a whole new era for guitarists and bassists.



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Guitar goes MIDI!

As long as there has been MIDI, there have been guitarists attempting to tap into that fantasy world of sounds and expressions. Most of these attempts ended in frustration and failure due to the lack of a pitch recognition system that was precise enough and more importantly fast enough to keep up with a guitarist's technique and the massive amounts of sound information to be translated into MIDI data.

Researches have revealed that at the very instant that a guitar string sounds, it is already too late for pitch recognition to begin, regardless of technology or method used. And so ends the story of the first MIDI controllers that were always frustrating guitarist with their long delays on their MIDI output.

Question: How can we recognize the pitch of a string before it fully sounds? The Axon Engineers have successfully developed an early recognition system that analyses the impulse that occurs at the very instant a string is played. This system recognizes the pitch of a string before it fully vibrates. Dynamics and length are then computed as the string continues to sound.

The AXON Pickup-System



MIDI on Bass

MIDI for bass guitar has long been thought impossible. The low frequency (pitch) of the notes played as well as the time it takes for a string to fully resonate have caused MIDI interpretation to have such time delays that it has not been viable at all - until now. The AXON has solved the problem!

Now bass guitarists can use the full spectrum of their instrument's technique to play MIDI sounds. The possibilities go beyond a bassist's wildest dreams. You can now combine the sounds of your bass that sounds the best with the bass you like to play the best.

You can play an acoustic bass on your electric bass, or a Fender bass sound on your Rickenbacher.

AXON AX 100 Features

- Extremely fast tracking
- Pick position recognition
- Functional with steel string, bass or nylon string
- 128 editable presets
- 12 play area zones (segments)
- Programmable foot switches (hold and preset)
- Arpeggiator with editable rhythmical patterns
- 32 editable chain presets
- Programmable wheel control
- Programmable expression pedals inputs
- Built in tuner
- 32 Bit RISC processor
- 6 x 18 Bit AD converters
- 13-conductor jack from guitar interface
- Variable mono input for microphone
- 2X16 character LCD screen with back lighting
- 2 audio output jacks for the optional sound board



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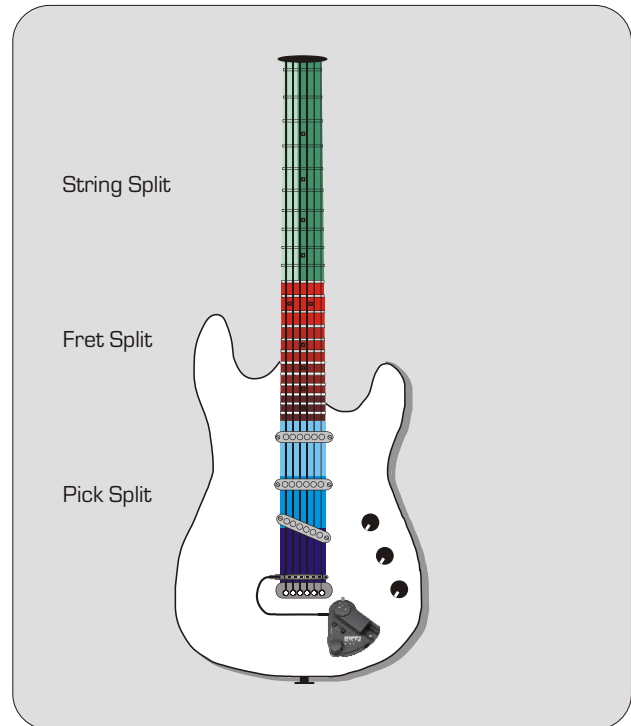
Let's Split!

Guitaristic virtuosity means mastering the entire technical spectrum. Quick changes between bass notes and high solistic melodies give the guitar its flexible ability. Not a problem with the AXON and its string splits and fret splits. Various sounds or timbres can be assigned to the different split areas.

You can for example assign a bass guitar sound to the lower strings and maybe a sax or distortion guitar sound to the upper solo strings, and then for the middle fret split a piano or twelve-string sound.

The AXON offers a variety of split possibilities that, in combination with each other, divide the play area of your guitar into various segments according to string and fret splits and pick position. Unbelievable possibilities that you have to try to believe!

The Split Variants



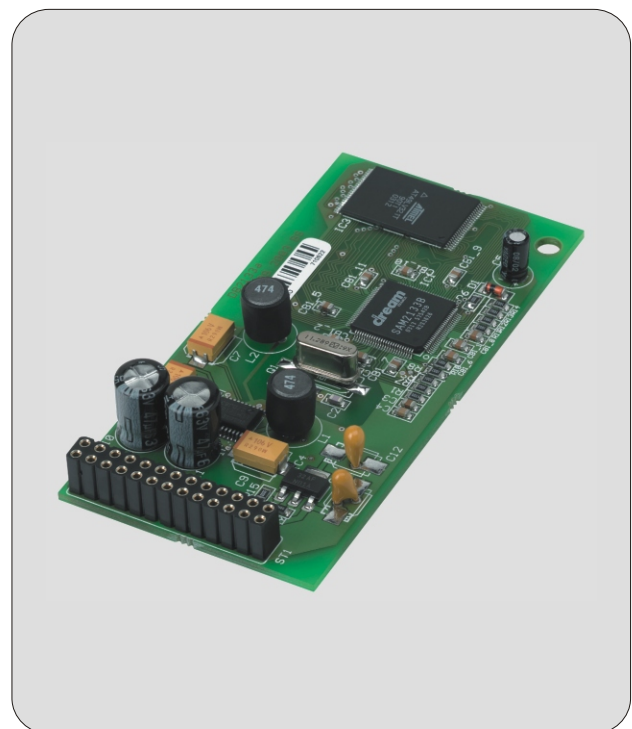
Sounds on board

With the optional sound board, you are equipped with a wealth of onboard sounds and rhythms. Of course, you can connect your AXON (even without the sound board) to virtually any MIDI capable sound module or synth with no difference at all in performance.

The most popular synths, sound modules, samplers, expanders as well as MIDI pianos, organs, computers with sound boards (or anything else that generates sounds) are now available to you as a guitarist/bassist. The AXON is as fast using external devices as it is using its internal sound board.

The AXON AX 100 with the internal sound board offers you a practical alternative at an excellent value. A wide variety of quality sounds are available to you as guitarist/bassist. You, your guitar and the AXON AX 100 are all you need for incredible live performances.

The SB 100 Soundboard Upgrade



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Special Effects

Using the modulation wheel on the guitar interface as well as the pick control function, which registers the actual position of your right hand over the string. The AXON makes it possible to send every type of CC message directly from your guitar by varying your picking position. In addition, you can use two expression pedals and two foot switches to control hold functions and sequence.

Effects such as reverb, chorus and vibrato can be combined with volume, tremolo and such exotic parameters as filter cutoff, auto-wah and more. You can also control program change and the actual selection of sounds using your on-board mod wheel or pick position. These facts alone make for the most alive and dynamic guitar you've ever played.

The backside: Great variety of connectors

- Soundboard Output left & right
- MIDI In, Thru & Out
- Expression Pedal Input 1 & 2



- Chain & Hold Switch Pedal Input
- 12 VAC Power Input
- Guitar Output

MIDI Recordings

This is where the AXON shows its true colors. Totally separate MIDI signals for each string instead of the MIDI salad that comes from most other converters make reliable professional or home recordings possible.

You can now take advantage of the myriad of possibilities of multi-track recording, music-page-layout and printing, digital saves and data transport via CD-ROM or via the Internet. It's a new era for guitarists with the AXON.

AXON AX 100 Awards



Want to know more?

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