

FOREMOST PICKUP TECHNOLOGY FOR ABSOLUTE ACOUSTIC REPRODUCTION



ACOUSTIC GUITAR

PICKUPS – PREAMPS – ACCESSORIES

2008

Under Saddle Pickup

Acoustic Soundboard Transducer



“RIBBED” UST PICKUP

The B-Band R series UST (Under Saddle Transducer) is the finest pickup choice for acoustic steel or nylon string guitars. The unique Em-fit® film material used exclusively in every B-Band pickup has proven to be unsurpassed in delivering absolute acoustic tone and the individual characteristics of the instrument.

The R series UST pickup has unparalleled sound quality and a very robust ribbed structure for durability. The pickup is physically ultra thin and flexible making for easy installs usually without modifications to the saddle or saddle slot. The ribbed construction also enhances string balance for quicker installations.

B-Band UST pickups are so thin and lightweight they do not interfere with the string's signals passing through the saddle and bridge retaining the original acoustic sound and voice of the instrument.

The UST construction is a long and consistent structure that ends with a socket-type connector for an easy and quick plug-in fitting to a B-Band preamp, without any soldering.

UST Models and Specifications:

For use with steel and nylon stringed guitars

Model 29R UST:

29R- 2.9mm / 1/8": wide saddle slots.

Active area: 80mm / 3"

Overall length: 330mm / 13"

Model 22R UST:

22R- 2.2mm / 3/32": narrow saddle slots.

Active area: 80mm / 3"

Overall length: 330mm / 13"



Acoustic Soundboard Transducer



AST (1470)

The B-Band AST is made of the same exclusive Emfit film material found in the UST but designed to fit at the bridge plate or soundboard of an instrument. The AST has a very wide frequency response and dynamic range to capture all the tone details of an acoustic instrument. AST has all the advantages of a microphone without the positioning and feedback

issues that are usually associated with mics.

The AST is very thin, lightweight and compact. Because of its size and the adhesive on the back, it is easy to navigate to fit anywhere inside an instrument without critical positioning. The construction of the AST is a long consistent structure that ends with a connector for easy plug-in fitting to a

B-Band preamp without soldering.

Compatible with all B-Band preamps, the AST can be used as a stand-alone source or in combination with a UST with a B-Band dual source preamp. AST can be used with any acoustic instrument with good access to the surface that it will be mounted.

AST Model and Specifications:

For use with any instrument

Model AST 1470:

Active area: 14mm X 70mm / 9/16" X 2 13/16"
Lead wire length (not including active area)
240mm / 9 1/2"

UST and AST Features:

- Operation based on the exclusive B-Band / Emfit electret film



- UST has two sizes that will fit most guitars
- AST (1470) will fit any instrument with clear access to the surface it is to be mounted on
- Reproduces the original tone without affecting the instrument acoustically
- Ultra-thin and lightweight
- Wide dynamic range and frequency response
- High gain before feedback
- Easy and fast plug-in installation without soldering
- No or minimal modification

Ultimate Preamp Technology



HZZLess

The HZZLess™ preamp circuit is a special design that not only reduces signal noise but, because it integrates with B-Band pickups more closely, it also increases the signal output. All B-Band pickups are made with the relatively new invention Emfit film. The pickups have special properties and now the B-Band developers have to come up with a way to harness those special specifications into a higher and cleaner output that can be better used by everyday professional sound electronics.

The results are a respectable 6dB higher signal output with a 9dB reduction in signal noise. The user will find how easy the new louder volume will fit with their equipment and will be knocked out by the huge tone that is produced. Clean and loud!

All currently produced B-Band guitar preamps have the HZZLess circuit.



XOM Circuit

The XOM (Cross Over Mix) system combines the best aspects of each pickup into one complete source. By sensing the guitar from two separate locations and combining what each pickup does best, the XOM system has a very rich and complex sound that further augments the already superior sounding Emfit film pickups.

The ideal process for authentic acoustic sound comes from combining the high frequencies of the AST and the low frequencies of the UST, making a sound that is much more complex, true and pure. In addition, the XOM pan pot allows the player to select between UST / AST mix and the UST alone or one of the many possibilities in-between for unlimited possibilities.

The player will find the XOM to be an amazingly flexible sound manager resulting in an elegant transparent tone at any performance level. The XOM is featured in the A2.2 and A6T preamps.

A3 and A3T Premium-Class Preamps



A3 retro - new for 2008

Retro! Overwhelming messages came from customers wanting us to return to producing a small, sophisticated preamp that could be easily installed. We did it but included all the best B-Band updates. The A3 has the volume and 4-band in a rotary control format that makes it a “cinch” to install- no one big hole needs to be cut for mounting, only several drill holes!

The A3 also has the HZZLess circuit for outstanding, high quality and low noise sound with very high output signal. There is a LED at the faceplate for low battery and “blink” switch-on status. The A3 is 9-volt powered.

A3 features:

- Easy installation
- HZZLess low noise / high output circuit
- LED low battery and “blink” switch-on status
- 4-band EQ
- Rotary controls
- Box-Tight battery holder
- Pre-wired high quality endpin output jack
- Single input (UST or AST)



A3T - 4-band EQ with tuner

The A3T retains the simple and small features that are big on sound and intuitiveness. The compact preamp has a 4-band rotary EQ, low battery LED and a wide range chromatic tuner. The EQ provide quick and accurate changes. The chromatic tuner is fast and has a range that will be welcomed buy customers that want to tune a full step down from stand-

ard – great for open tunings and 12-string guitars too! The tuner will show all notes, including sharps, great for standard and open tunings. The tuner has a single window showing the pitch and four LEDs showing the half step, sharp, flat and in-tune. 9-volt battery powered HZZLess circuit.

A3T Features:

- Fully chromatic tuner with wide range and fast response
- Single input - (UST or AST)
- HZZLess low noise / high output circuit
- 4-band EQ
- LED low battery and "blink" switch-on status
- Box-Tight battery holder
- Pre-wired high quality endpin output jack

A5T and A6T

High-Class Preamps



A5T - 4-band EQ with tuner

The A5T features a slider 3-band EQ and volume control, notch filter and frequency rotary controls, phase button, low battery LED, and full range chromatic tuner. The fully chromatic tuner has an LED strip that shows the note and individual LED's showing the half step, sharp, flat, and in-tune. The tuner is fast and responsive and will tune to a full step down from standard and is great for open tunings and also 12-string guitars. 9-volt battery powered HZZLess circuit.

A6T - 3-band XOM EQ with tuner

The new A6T is based on the now popular A5T but has an extra bonus of a second XOM input channel for the AST pickup. The A6T with the XOM mix of UST and AST pickups, and the HZZLess circuit, delivers massive sound that only gets bigger live on stage or in the studio. Features include a fast and rock solid chromatic tuner that is equally at home with 12 or 6-string guitars as well as alternative tunings. Slider controls that include the XOM mix; volume

and a 3-band EQ that co-exist with rotary feedback controls, push-button phase control, and battery function LED.



A5T and A6T Features:

- Fully chromatic tuner with wide range and fast response
- Single input - A5T (UST or AST)
- Dual input with XOM- A6T (UST and AST)
- HZZLess low noise / high output circuit
- 4-band EQ - A5T
- 3-band EQ - A6T
- Notch Depth and Frequency controls

- Phase switch
- LED low battery and "blink" switch-on status
- Box-Tight battery holder
- Pre-wired high quality endpin output jack

Order codes

A5T
A6T

A11

Onboard 2-band EQ Preamp



A11

The A11 is a single input, for UST or AST pickup, 9-volt powered preamp and features active remote controls for volume, treble and bass at standard rotary pots. The preamp is easily mounted anywhere inside the guitar. The system comes complete with the three pots on a long ribbon wire, so the pots can be installed at the soundboard, side, or shoulder of the guitar. The system is useful for example for upgrading from other manufacturers three pot configurations. The A11 also works well on

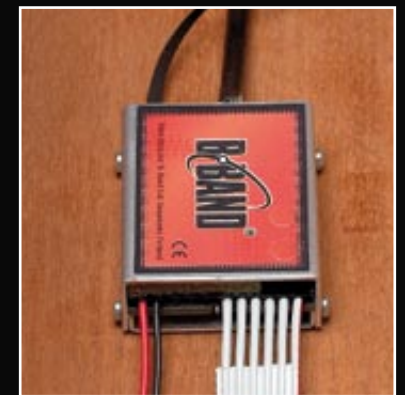
solid body guitars that have an acoustic bridge.

The A11 package includes all mounting hardware, output jack and cable, battery holder and wire harness.

A11 Features:

- 2-band EQ
- HZZLess low noise / high output circuit
- Remote rotary pot controls
- Versatile installation
- Box-Tight battery holder

Order code: A11



A2

Onboard Preamp for Two Pickups Upgraded for 2008

A2

The B-Band A2 is a first class end-pin preamp; first class in sound and versatility. Even though the name has changed over the years, the classic A2 has endured and provided an important link between artists and their audience.

The A2 is ultimate in flexible design for those who want to keep their instrument original with minimal intrusion. The dual input / dual output preamp accepts the combination of the UST and AST. This combination of pickups coupled with the sophisticated HZZLess electronics reproduce all the instrument's nuances.

Input ch-1 will accept either the UST or AST. Input ch-2 can be configured to accept an AST, or the B-Band AG-MIC soundhole condenser microphone or a magnetic pickup. Separate output channels, accessed with the use of a standard stereo cable give the user control of the two sources at a mixer or preamp.

Inside the A2 is a matrix of four DIP-switches that determine specialties. At channel 1 there is a switch for enabling a unique contour filter for upper register tone enhancement. For ch-2 there are DIP-switches to turn on bias voltage for the AG-MIC, to turn on a high-pass filter for microphone feedback reduction and to lower the gain from 24 dB down to 0 dB.

The A2 package includes all mounting hardware, box-tight battery holder and wire harness.

A2 (2008 upgrade) Features:

- Dual input and output channels: Channel 1 - UST or AST, Channel 2 - AST or sound-hole condenser microphone or magnetic pickup
- HZZLess circuit with low noise and high output
- Box- Tight battery holder

Order code:

A2



SOUNDHOLE CONDENSER MICROPHONE

The B-Band condenser microphone is an alternative, high quality source for A2 channel 2

Order code:

AG-MIC

A2.2

Onboard Preamp with XOM for Two Pickups

A2.2 with XOM*

The A2.2 with its dual input / single output onboard preamp, for use with the UST and AST combination excels in performance over any other preamp of this type. The A2.2 includes the XOM technique with mix control to bring the best of the UST and AST characters together resulting in a sound that is true to the guitars unique voice in any performance venue.

The A2.2 is also great for resonator guitars with spider or biscuit bridges (write us for details!). Using the A2.2 system in a resonator guitar is simple. The UST pickup goes under the saddle and the AST is simply attached to the resonator cone. In this way both pickups pickup the sound like no other system- At the Source! No other manufactured system does this. The control pad of the A2.2 simply mounts at the sound hole of the guitar. An optional 9-volt battery phantom power supply is available.

The A2.2 has a small remote control pad with a volume and mix control that mounts without modification at the inside edge of a guitar's soundhole. The preamp is housed in a lightweight all-metal box and can be mounted inside the guitar at the side or back and is powered with a 9-volt battery.

At the preamp there are two input gain trim controls for both the UST and AST to match input levels. The entire system installs easily with very

minor modifications – one small drill hole each for the pickup and endpin jack. For fast connections all components plug in without soldering.

All mounting hardware, including a high quality endpin jack and box-tight battery holder, are supplied.

* Read more about XOM on page 4.

- Each channel has input gain trim
- All plug in connections
- Box-Tight battery holder
- 400-hour average battery life
- High quality output jack

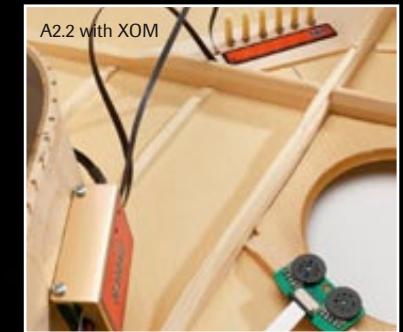
Order code:

A2.2



A2.2 Features:

- Dual channel input (UST and AST)
- XOM circuit
- HZZLess low noise / high output circuit
- Remote soundhole volume and mix controls



A1.2 and A1.2N

Onboard Preamps for One Pickup

A1.2 and A1.2N-1470

The A1.2 is the little brother of the “now classic” B-Band Core / A2 preamps and is big on classic B-Band sound. The single input A1.2 has a direct frequency response with 24 dB of gain making a perfect fit with the B-Band UST (not included).

The B-Band A1.2N-1470 bundle includes AST and a special version of the A1.2 that has a slight frequency notch of 6 decibels in the low-mid-range giving the system a smooth acoustic sound at louder volume levels. It can be used in any acoustic gui-

tar, or similar instruments, that has good access to their interior.

Both the A1.2 and A1.2N come with a volume control that simply mounts at the inside edge of the sound hole with adhesive. The 9-volt battery powered electronics are mounted in a small tube that is directly coupled with a high quality endpin jack making an all-in-one structure.

The structure is light in mass adding very little weight to the instrument. Both kits include all mounting hardware, box-tight battery holder and wire harness.

A1.2 and A1.2N-1470 Features:

- Volume control mounted at the soundhole
- A1.2 can use either UST or AST (sold separately)
- A1.2N special design preamp (only for use with AST 1470)
- A1.2N-1470 bundle includes A1.2N preamp and 1470 AST transducer
- HZZLess low noise / high output circuit
- High quality endpin output jack
- Box-Tight battery holder
- 750 hours average battery life
- 9-volt phantom power option



A1.2 and A1.2N come with sound-hole volume control.

Company

DETERMINED

B-Band has sustained a high profile within the musical instrument industry for over a decade. Fundamental to this success are the endeavors and hard work of many, and for B-Band to intuitively rise to the commitment of a mission that is continually set by the customer expectations. We believe that for our customers to succeed, we need to go beyond the boundaries of what the customer expects.

B-Band was established in 1991. The starting point of the company's new business in 1995 was the introduction of the proprietary Emfit® film, an electret film invented in Finland. Lasse Räisänen, one of the founders of Emfit Ltd, and Heikki Räisänen, founder and director of B-Band Ltd, nurtured the idea that the Emfit material would make an excellent transducer for acoustic instruments. That idea was realized and continues to be a source of inspiration for amplified acoustic sound. Emfit is used in every B-Band transducer.

B-Band cares what the music professional and music lover want. We understand that the customer wants to be recognized as a leader by using or distributing a great sounding, quality product.

We at B-Band are honestly determined to help you reach your audience or customers through quality and innovation.

Heikki Räisänen
President
B-Band Ltd

ARTISTS USING B-BAND

Larry Carlton
Terry Bozzio
Carl Verheyen
Scott Henderson
Tim Pierce
Steve Trovato
and many more

MANUFACTURERS USING B-BAND

ESP
Karl Höfner
Ibanez
James Trusart
Meinl
Ribbecker
Santa Cruz
Simon and Patrick
Stagg
Tanglewood
Washburn
Yamaha
and many more



Carl Verheyen

ORIGINAL

B-Band is original. When outdated piezo crystal technologies have been mutated in countless ways, and extra hardware expanded to make acoustic instruments to sound “more real”, B-Band takes a different approach. B-Band has a unique transducer material, and manufacturing technology, that produces a pickup that more efficiently replicates the natural sound of any musical instrument.

B-Band pickup systems, in their simplicity, do not color the tone and are so unobtrusive they do not spoil the natural uniqueness of your instrument. The outstanding sound reproduction is based on the worldwide patented high-tech electret film exclusive to B-Band and is entirely unique in the industry. How is it different? Whereas piezo pickups tend to impart a sound of their own (often described as “quacky” or “plastic”), B-Band transducers act in much the same way a condenser microphone does. This results in excellent reproduction of your acoustic guitar’s unique sound.

www.b-band.com

Visit the B-Band website for more information.



B-Band Ltd

Konttisentie 8 B
FI-40800 VAAJAKOSKI, FINLAND
Tel: +358 14 332 9050
Fax: +358 14 332 9001
sales@b-band.com

B-Band, Inc.

10909 Vanowen St., Suite 300
N. Hollywood, CA 91605, USA
Tel: (818) 508-9412
Fax: (818) 508-9413
sales@b-bandusa.com