

Product Spotlight

Bose® T1 ToneMatch® Audio Engine

Control so advanced, it adapts to you and your instrument.

By Craig Jackson, Bose Corporation

Musicians and DJs who have used Bose L1® systems know about their consistent tonal balance, 180 degrees of horizontal coverage and portability. But the best kept secret just may be the T1 ToneMatch® audio engine.

The T1 ToneMatch engine is more than a mixer. It's a multi-channel digital audio device containing the most advanced tone shaping tools from Bose, including a comprehensive library of ToneMatch presets and proprietary zEQ. This technology from Bose® is designed to get you sounding your best faster than ever before.

This device accommodates up to four sources and provides a complete suite of studio-class effects and processing for each channel. It can be used with an L1 system, as a personal direct box – when connecting to larger front-of-house systems – or as a USB recording interface. Its large backlit LCD screen and encoder provide quick access to modes, effects and parameters, including ToneMatch presets and zEQ. And all of this in a rugged, compact size that fits in a backpack or cable bag.

What is ToneMatch Technology?

What makes the T1 ToneMatch audio engine unique is Bose® ToneMatch technology. It can be difficult to properly EQ an instrument or microphone at a gig or during sound check. There's never enough time to dial everything in, and often the right equipment isn't available to make the necessary adjustments. It's a constant struggle from venue to venue and it's less than satisfying to perform when you're not comfortable with your tone. That's why Bose invented ToneMatch technology. It makes it easier to achieve ideal sound, allowing you to focus on the performance.

ToneMatch removes the guesswork from the EQ process. It's as if a skilled studio engineer listened to the sound of your particular instrument or microphone being played through an L1® system, made a series of EQ adjustments to optimize the sound, and then saved those changes as a preset to be instantly recalled at the touch of a button. That is the power of ToneMatch technology.

Each ToneMatch preset is custom designed by a skilled Bose engineer, often working directly with the instrument manufacturers that include Taylor, Gibson, Breedlove, Ovation, Takamine and Audix, among others. This ensures the instrument sounds the way the manufacturer intended when played through a Bose L1 system.

If you don't see a specific preset for your instrument or microphone, don't worry. Bose includes generic presets for acoustic guitars with piezo pickups along with a host of other presets for popular microphones and instruments such as bass, mandolin and violin. Access to presets is easy. They are organized into banks: vocal microphones, electric guitars, acoustic guitars, keyboards, basses, percussion, winds and horns, and more. Select a bank, load a preset and you're done.

Further EQ refinements can be made with the zEQ feature. This EQ technology automatically adjusts the range of tone controls to match the instrument or microphone selected, making it easier to fine tune your sound. Unlike the fixed EQ ranges of conventional mixers, zEQ redefines low, mid and high ranges for each ToneMatch preset allowing you to cut or boost specific frequency ranges for different instruments and microphones.

ToneMatch presets can easily be updated via the USB port on the T1 ToneMatch audio engine. Go to Bose.com/livesound for additional ToneMatch presets from Audix, Breedlove, Gibson, Taylor, Takamine, Ovation and more. And there's never a charge.

Processing Power! Included Effects and Dynamics Processing

A suite of effects and dynamics processing allow you to choose from three delay types, ten modulation effects, and seven dynamics processors – and assign them independently to each channel. Five different reverbs types are available and can be globally assigned, with individual channel controls for delay time, mix level, and brightness. The T1 ToneMatch® audio engine also includes a chromatic tuner that can be accessed from any channel.

Recall your settings

The Scenes feature lets you store your customized settings for specific gigs and recall them at a touch of a button. This feature helps simplify setup when you're using an L1 system in different venues. The T1 ToneMatch audio engine comes with five predefined scenes and the ability to save a total of ten.

I/O Flexibility

The T1 features four independent channels that offer a great amount of flexibility for easy connection to a wide variety of sources. Channels 1 through 3 feature mic/line analog inputs accepting balanced XLR or unbalanced ¼" audio cables. These channels also include ¼" preamp outputs for connecting dry output signals to other sources. Channels 4 and 5 accept balanced or unbalanced ¼" audio cables for analog stereo connections to keyboards, mixers and computers.

A ¼" Aux output is also available to create an independent submix of channels 1 through 4, or 1 through 5. There is a master ¼" analog output, and a ToneMatch port to connect the digital output from the T1 ToneMatch audio engine to the ToneMatch port on the L1 Model II system.

Each channel includes level and trim controls with signal/clip LEDs, and dedicated audio and FX mute buttons. And a channel select button is used to access effects and processing.

A USB port is available for updating the T1 ToneMatch audio engine and backing up scenes to a USB drive..

Compatible with the entire L1 Family

The T1 ToneMatch audio engine easily connects to an L1 Model II system via the included digital ethercon cable. When connecting the T1 ToneMatch audio engine to an L1 Compact or Model I system, a ¼" analog cable and a T1 ToneMatch audio engine power supply are required.

With these advanced ToneMatch® technologies, the high level of tone customization that most musicians can experience only in a recording studio is now available on stage for any performance. And with a suite of studio-class effects and processing, the T1 ToneMatch audio engine makes it easier than ever to dial in your signature sound.

Side Bar

- Compatible with L1® Model I, Model II and L1 Compact systems
- One-cable connection to the L1 Model II system
- Requires accessory power supply when used with the L1 Model I and L1 Compact systems
- Easily mounted on a Cylindrical Radiator® loudspeaker or a microphone stand
- High-quality, low-noise preamps in each channel, allowing the use of almost any instrument or microphone
- 48V phantom power available on channels 1 through 3
- LED display and illuminated controls for viewing on dimly-lit stages
- ToneMatch® presets optimize the sound of instruments or microphones with the touch of a button
- Bose zEQ works with the ToneMatch technology to automatically adjust the low, mid, and high frequency bands for the selected preset, allowing more advanced tone-shaping options
- Built-in chromatic tuner
- Performance scenes that can be saved and recalled
- Two analog outputs
- System updates and ToneMatch presets available at www.Bose.com/livesound

- USB audio interface to your computer