AmpliTube
TONEX ONE

USER MANUAL

IK MULTIMEDIA

Table of Contents

Contents

TONEX Ecosystem

Welcome to TONEX, a new ecosystem aimed at capturing, playing and sharing the best-sounding amplifiers on Earth.

This ecosystem comprises these parts:

- TONEX PEDAL: a guitar and bass stomp box to play Tone Models live.
- **TONEX ONE**: a streamlined guitar and bass mini-stomp box to play Tone Models live.
- TONEX for Mac/PC: a standalone application to play, manage and model Tone Models.
- **TONEX Editor**: to edit and transfer presets from your computer to TONEX hardware and vice versa.
- TONEX Plug-in: to play any Tone Model inside your favorite DAW.
- AmpliTube 5 TONEX amp and stomp: to play any Tone Model inside AmpliTube 5.
- TONEX Capture: a hardware device specifically designed for modeling any amplifier using TONEX Modeler.
- ToneNET: a free tone-sharing platform for Tone Models.

Downloading and installing the TONEX software

TONEX ONE comes with TONEX software, which includes a editor to edit , organize and transfer Tone Models on the hardware device. The editor also allows you to make firmware updates. To download and access the additional software features and content, please follow the below steps.

1. Download the free IK Product Manager:
   https://www.ikmultimedia.com/products/productmanager
2. Log in with your IK Multimedia credentials or create a new account
3. Launch IK Product Manager and select Register Product
4. Enter the serial number that came with your TONEX ONE
5. Download and Install TONEX software from the IK Product Manager
6. During the installation make sure to check TONEX Editor during the install process.
7. Connect TONEX ONE to your computer and launch TONEX Editor
8. Use the editor to edit, transfer, organize and update the firmware

Please visit the TONEX ONE media page for video tutorials and sound demos.

https://www.ikmultimedia.com/products/tonexone/index.php?p=media

But what's a Tone Model?

A Tone Model captures a real guitar or bass rig with all its nuances and non-linearities. It aims to provide the same sound characteristics inside a computer so you no longer need the real rig for performing and recording. You can collect thousands of amplifiers, stomps and cabs inside TONEX, which will become a digital locker for all your gear.

A Tone Model can have various types:

- Stomp(s)
- Stomp(s) + amp
- Stomp(s) + amp + cab
- Amp
- Amp + cab

A stomp(s) is any combination of guitar pedals: boost, overdrive, fuzz, distortion, EQ, preamplifier, etc...

N.B.
The stomp can't be a time-based or phase-based pedal such as a compressor, reverb, delay, chorus, phaser, flanger, etc...
Also, some vintage fuzzes and overdrives with parallel paths inside can't be modeled.

What if I have no amplifier to capture?

Don't worry, even if you don't have any amplifier to capture, you can play all the Tone Models available in TONEX Pedal, TONEX ONE and TONEX for Mac/PC, plus any Tone Model made by other users available on our free platform ToneNET (tone.net).

Presets

These Tone Models are used inside TONEX presets.

TONEX presets consist of the following effects for tweaking any Tone Model:

- Noise gate
- Compressor
- Modulation
- Tone Model
- Tone EQ
- Delay
- Reverb

A preset is the perfect foundation for any guitar tone.

Inside a preset, a Tone Model is divided into 2 parts: amp and cab.

This allows us to swap any amp/cab module with another Tone Model's amp/cab module to create new combinations of rigs.

If a stomp is paired with an amp, creating a "stomp + amp" or a "stomp + amp + cab" Tone Model, the stomp is tied to the amp and when swapping the amp part, the stomp follows as well.

TONEX ONE overview

Machine Modeling amp and distortion micro-pedal

TONEX ONE is the ultimate amp and distortion stompbox micro-pedal, using IK's breakthrough AI Machine Modeling technology (AIMM™).

Play on stage with hundreds of included Tone Model rigs, your own generated ones, or an unlimited number from a community of users. Or use the same exact Tone Models in the studio with TONEX plug-in, TONEX for Mac/PC and TONEX amp and stomp inside AmpliTube 5.

Connections

TONEX ONE into a power amplifier with your own cabinet

If you want to use TONEX ONE with your own cabinet, you can plug it directly to a power amplifier.

This is perfect if you want to have the flexibility and tone quality of TONEX using your own cabinet on stage. Remember to bypass the cab section to avoid unwanted double cab filtering.

PRO TIP: You can bypass the preamp section of your guitar or bass amplifier by plugging TONEX ONE into the return input of the amp's FX Loop.

This is an example of using the pedal inside a pedalboard connected to a power amplifier feeding a guitar or bass cabinet:
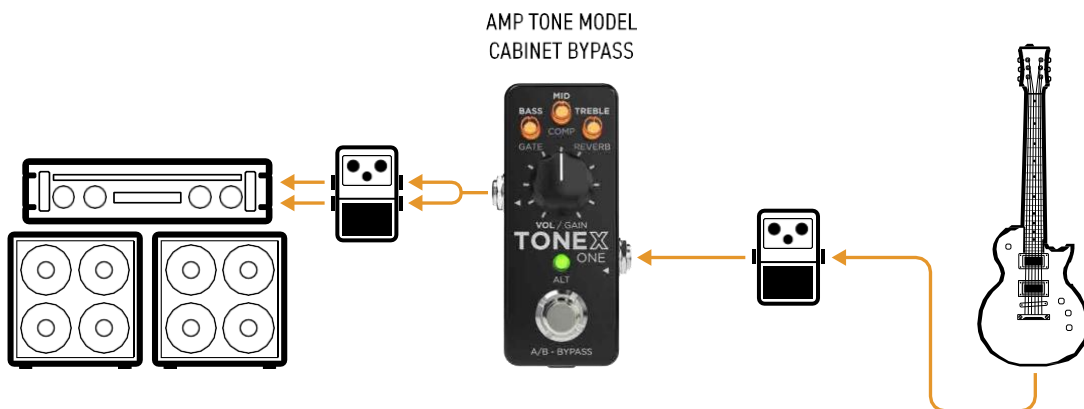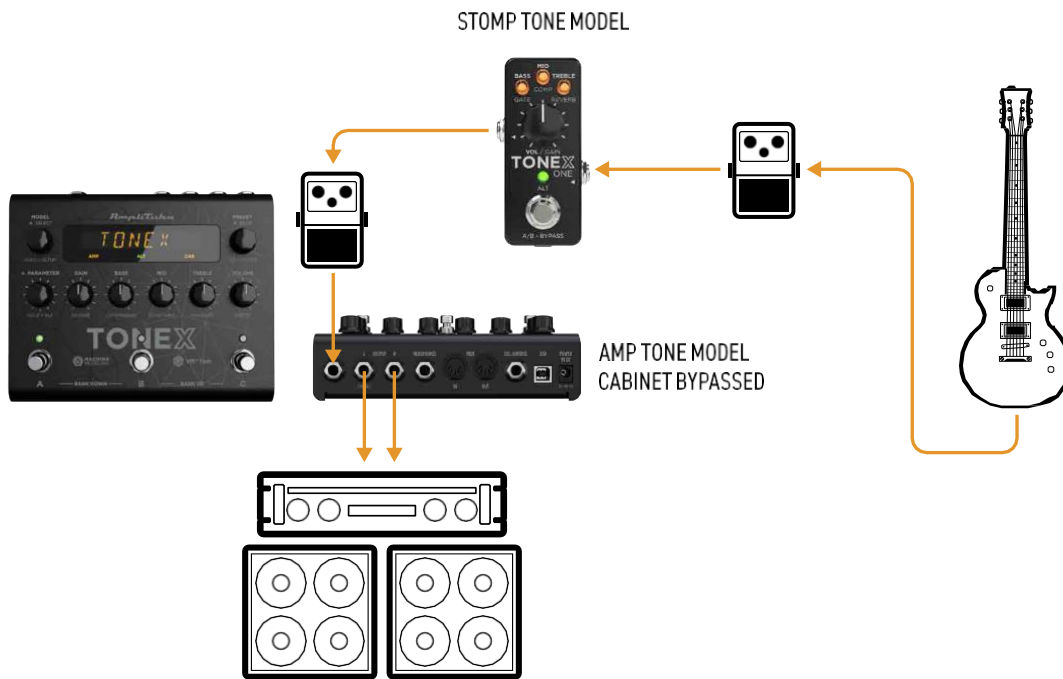
This is an example of using the pedal alone connected to a power amplifier feeding a guitar or bass cabinet:

You can use a regular instrument cable if you want to run your TONEX ONE in mono.

This is an example of using TONEX ONE with a TONEX Pedal connected to a power amplifier to feed a guitar or bass cabinet.
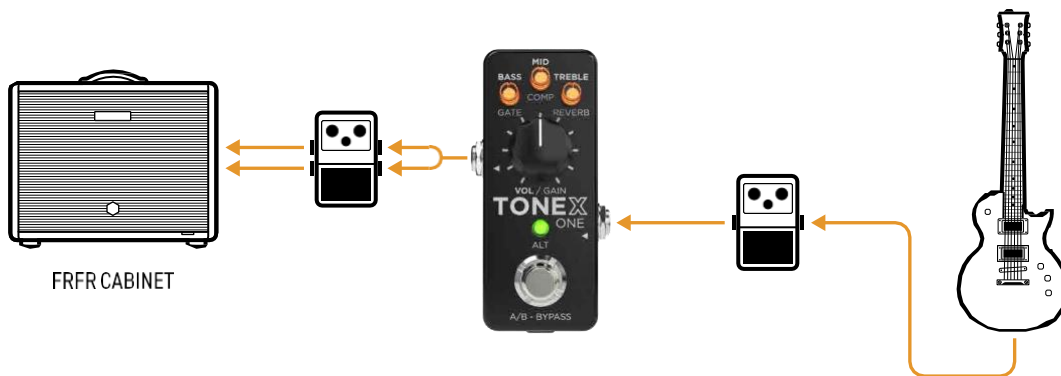
In this case, TONEX ONE is used as a stomp, while TONEX Pedal is used as the amplifier.

TONEX ONE feeding an FRFR or powered cabinet

If you want to use TONEX with your FRFR Cabinet (or powered cabinet), you can plug in directly. Remember to activate the cab section.

This is an example of using the pedal inside a pedalboard connected to a FRFR Cabinet:
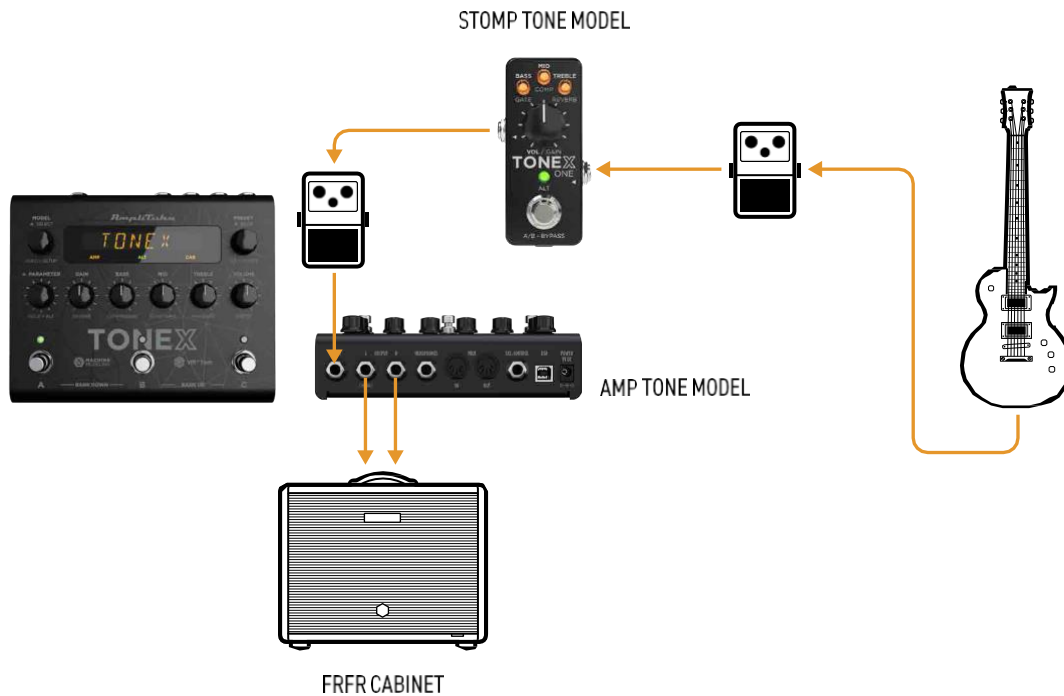
This is an example of using the pedal alone with an FRFR Cabinet:

You can use a regular instrument cable if you want to run your TONEX ONE in mono.
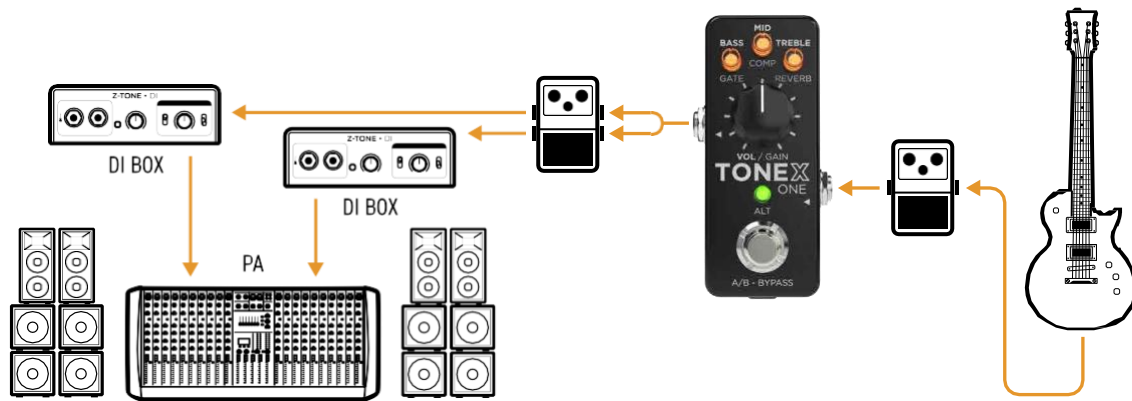
This is an example of using TONEX ONE together with TONEX Pedal connected to an FRFR cabinet. In this case, TONEX ONE is used as a stomp, while TONEX Pedal is used as the amplifier.

STOMP TONE MODEL

AMP TONE MODEL

FRFR CABINET

TONEX ONE feeding a PA system

TONEX ONE can also be connected directly to a PA System using one (or two if you prefer going stereo) DI Box(es). This is great for keeping your stage volume silent. Remember to activate the cab section.

This is an example of using the pedal inside a pedalboard connected to a PA System in stereo using a Y cable:
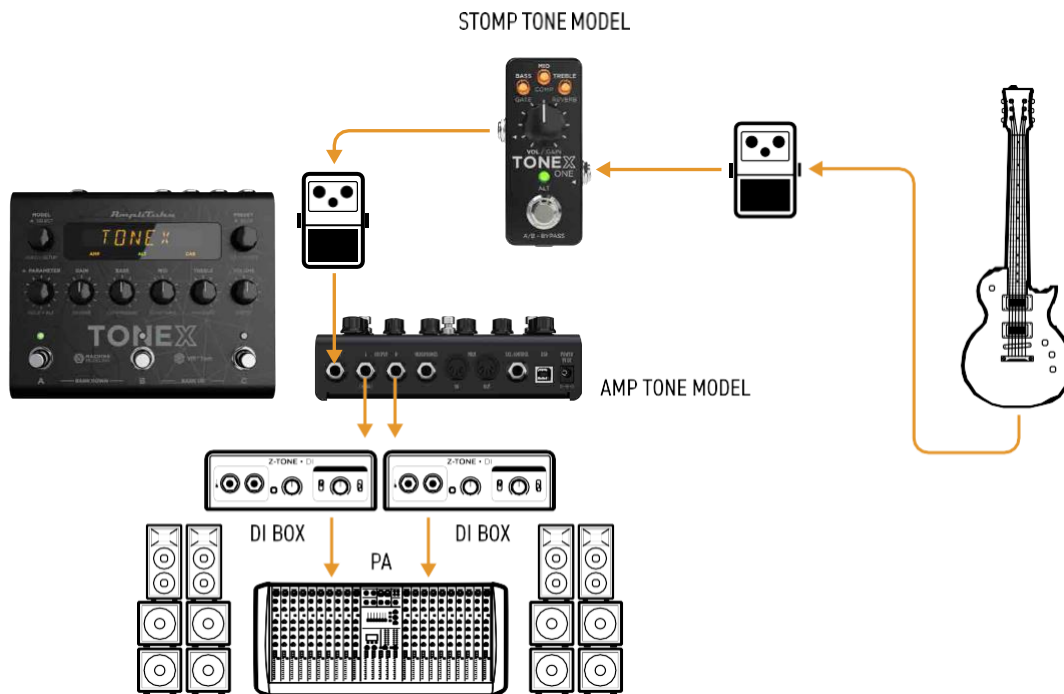
This is an example of using the pedal alone with a PA System in stereo using a Y cable:
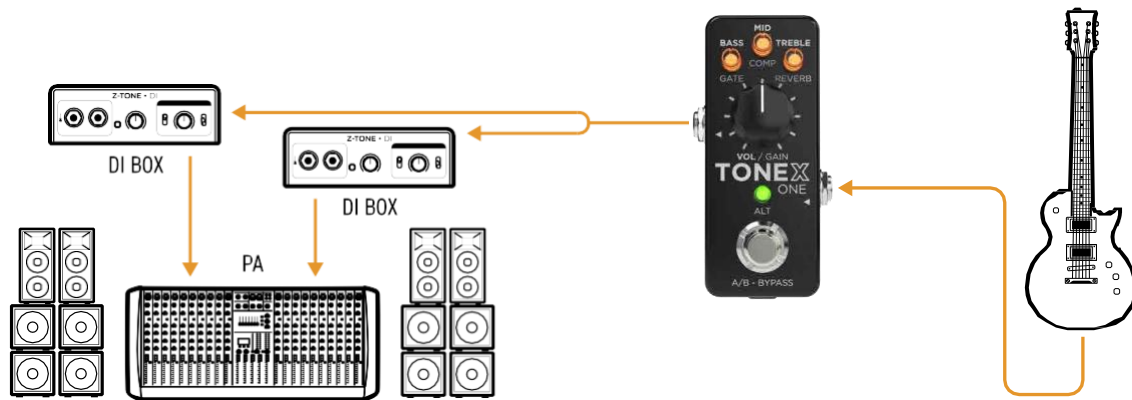
If you want to run your TONEX ONE in mono, you can use a regular instrument cable and a single DI box.

This is an example of using TONEX ONE together with TONEX Pedal inside a PA system.
In this case, TONEX ONE is used as a stomp, while TONEX Pedal is used as the amp.

STOMP TONE MODEL

AMP TONE MODEL

DI BOX

DI BOX

PA

TONEX ONE for silent practicing

If you need to warm up before the gig or just practice without bothering anyone around, you can use TONEX ONE with headphones. Remember to activate the cab section.

This is an example of using the pedal oninto a pedalboard for silent practice:
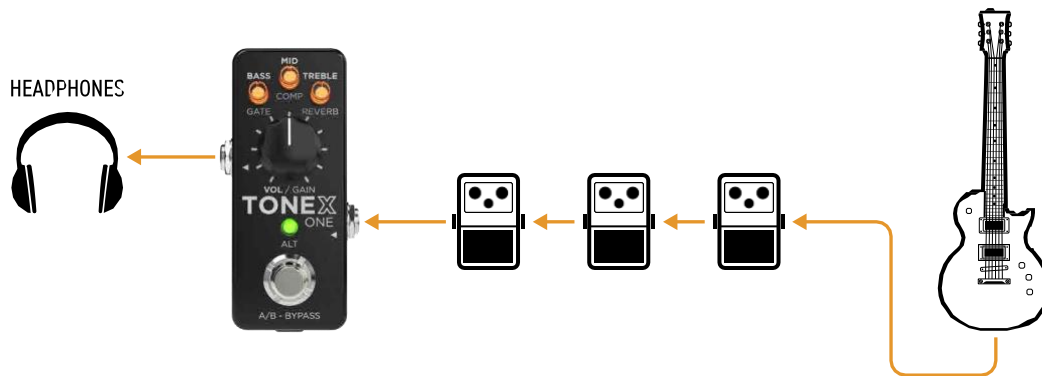
This is an example of using the pedal alone for silent practice:

TONEX ONE for recording

You can also use TONEX ONE as an audio interface to record your guitar parts by connecting it to your computer via USB. You can monitor with zero latency through the pedal using headphones or by connecting active monitors to the stereo output of TONEX ONE using a Y cable.

This is an example of using the TONEX ONE for recording:
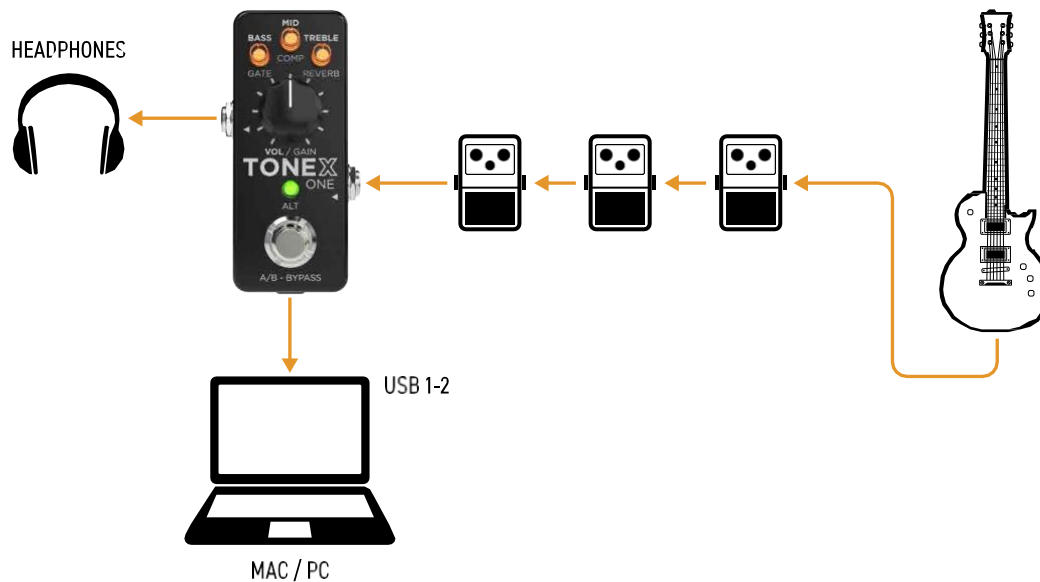

Disable direct monitoring from the TONEX Editor if you monitor through your DAW to avoid a double monitoring effect while recording.

If you are using TONEX ONE to feed TONEX software or another amp simulator software, remember to bypass TONEX ONE internal processing by going to stomp mode and set the pedal to bypass to send only the DI signal to the amp simulator.

TONEX ONE as a stomp in front of a real amp

By connecting it in mono, you can use TONEX ONE as your overdrive/distortion/fuzz pedal before your amplifier.
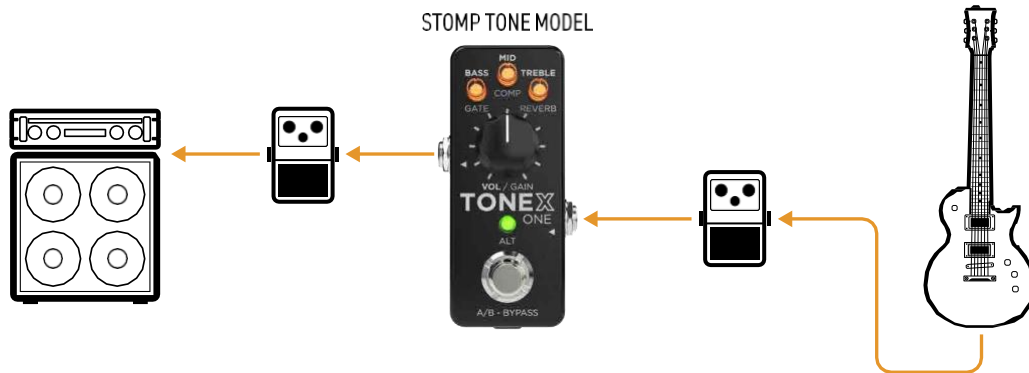
Stereo or dual mono setup.

TONEX ONE for practicing

You can use TONEX ONE to practice silently *(Figure A)* or through active monitors *(Figure B)* by connecting it to a computer and selecting it as an output interface.

Use the controls on your computer or application to adjust the volume of the playback and the TONEX ONE volume to adjust your guitar level.
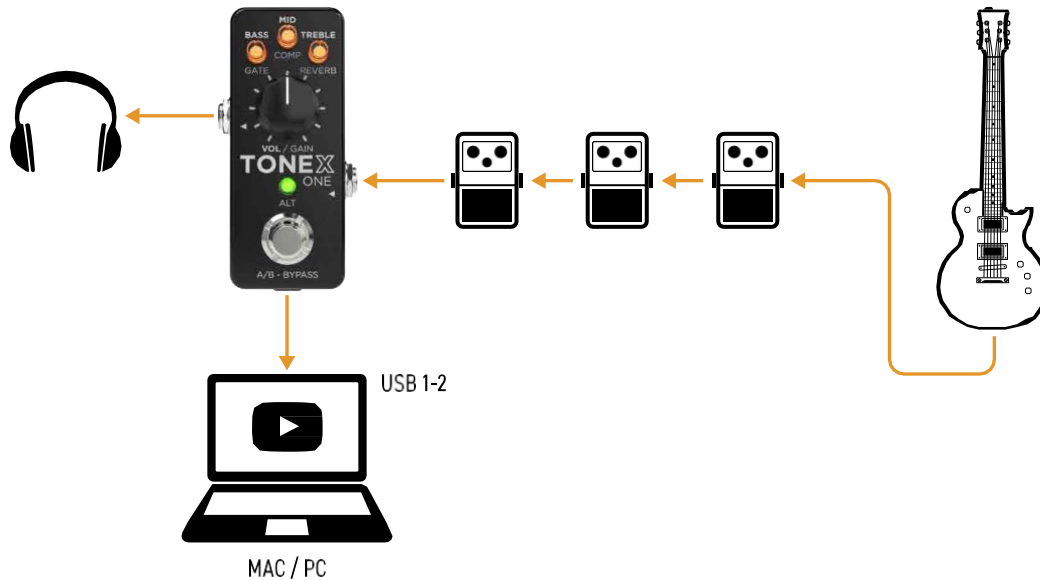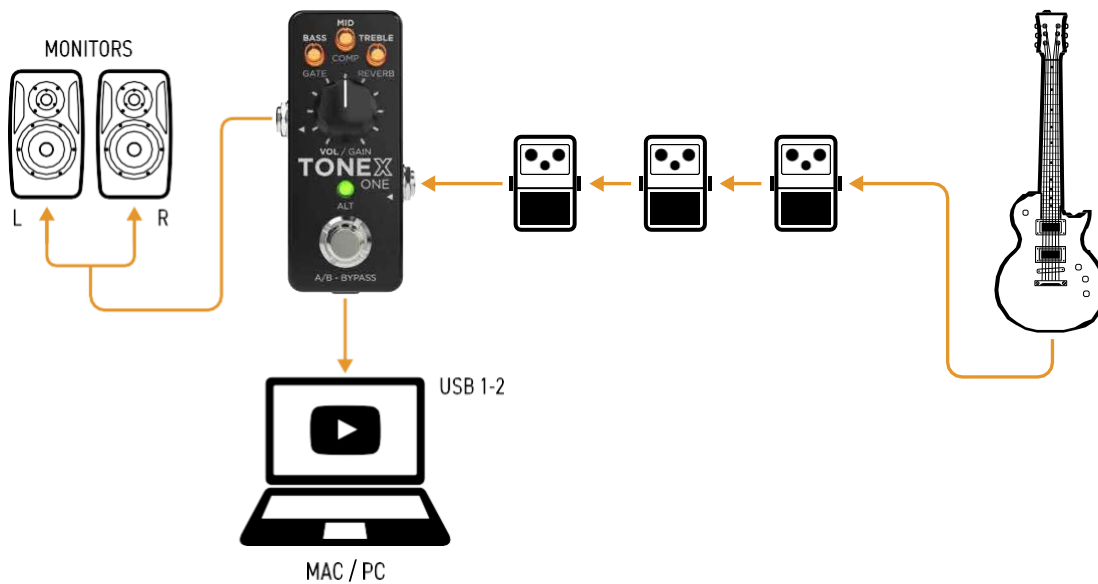

Figure A

Figure B

Front panel & connections

1. **Main knob**

Rotate to edit the main parameter preset volume or the alternative parameter gain.

2. **Micro knobs**

Rotate to edit the preset main parameters: bass, mid and treble or alternative parameters: gate, comp and reverb.

The LED color indicates which preset is selected.

3. **ALT button**

Press to access the alternative parameters.

Hold for 3 seconds to lock the device.

Hold for 6 seconds to access setup mode.

4. **Footswitch**

Press to toggle between preset A and preset B in dual mode or to bypass the pedal in stomp (on/off) mode.

Hold to access the tune & tap mode.

5. **Input jack**

Mono unbalanced.

Plug your instrument here.

6. **Output jack**

Mono/Stereo unbalanced.

Can be connected to other pedals, a PA (using a DI), an amplifier, an FRFR cabinet, headphones or studio monitors.

7. **USB C**

To manage TONEX ONE presets with the editor or to use it as an audio interface. It can also power the unit (5V 260 mA).

8. **Power in**

9V DC 120 mA center negative

Auto save

TONEX ONE automatically saves any changes applied to the current preset in real-time. This "analog-like" behavior avoids any edit loss for a faster and smoother experience without the need to manually save changes.

Clip

If you are running a signal that is too hot and is clipping TONEX ONE's output stage, the ALT LED becomes red. Lower TONEX ONE volume to avoid clipping.

ALT colors
- **Green** – indicates that the pedal is running in dual mode, the footswitch toggles between preset A and preset B.
- **Amber** – indicates that the pedal is running in stomp mode. The footswitch activates or bypasses the selected preset.
- **Blue** – indicates that the pedal is in setup mode.
- **Shell pink** – indicates that the pedal is in tune & tap mode.
- **Purple** – indicates that the pedal is in preset browsing mode.

Safe mode

The safe mode is helpful when performing where you may want to lock the entire front panel to avoid unwanted parameter changes, but still use the footswitch to operate with presets.

Access and exit the safe mode by holding down the ALT button for 3 seconds until the micro knobs blink.

Tune & tap mode

Hold the footswitch to access the tune & tap mode, the ALT led blinks shell pink.

While the tune & tap mode is active use the ALT button to change tuning mode between:
- **Mute** – while the tuner is active the output is muted.
- **Thru** – while the tuner is active the signal passes through.

While in tune & tap mode use the footswitch to tap the tempo of any BPM synced effects (the ALT LED blinks following the tempo).

Hold the footswitch to exit the tune & tap mode.

Performance modes

TONEX ONE can operate in 2 different modes:

- **Dual mode** – lets you toggle between 2 presets using the footswitch.
  There is no bypass option in this mode.
  When the pedal is in dual mode, the ALT LED is green.

- **Stomp mode** – The stomp mode lets you use the pedal as a typical on/off stomp to activate or bypass the selected preset.
  When the pedal is in stomp mode, the ALT LED is amber.

Mode selector

To change the performance mode, access the global setup and turn the bass micro knob (mode selector).

To learn more, reference the "Setup" chapter.

Dual mode selected   Stomp mode selected

Preset browsing mode

TONEX ONE comes with 20 built-in customizable presets, each assigned to 3 active slots (2 for the dual mode and 1 for the stomp mode).

Browsing mode

To browse the 20 presets and assign them to the 3 active slots, press the ALT button and the footswitch together to access the browsing mode. The ALT LED turns purple.

Once accessed the browsing mode, the 3 micro knobs refer to the 3 active slots:

- **BASS** – dual mode, preset A.
- **MID** – dual mode, preset B.
- **TREBLE** – stomp mode.

Use the footswitch to select which active slot you want to edit, then turn the corresponding micro knob to select its preset assignment (the micro knob changes colors following the selected preset color).

While browsing, you can use the main knob to edit the preset volume and, by pressing the ALT button, the gain of the selected preset.

Once the assignments are done, press the ALT button and the footswitch together to confirm and return to the selected preset.

TIP: : If you need to use 3 presets while performing, you can leave the browsing mode on and use the footswitch to cycle among the 3 active slots.
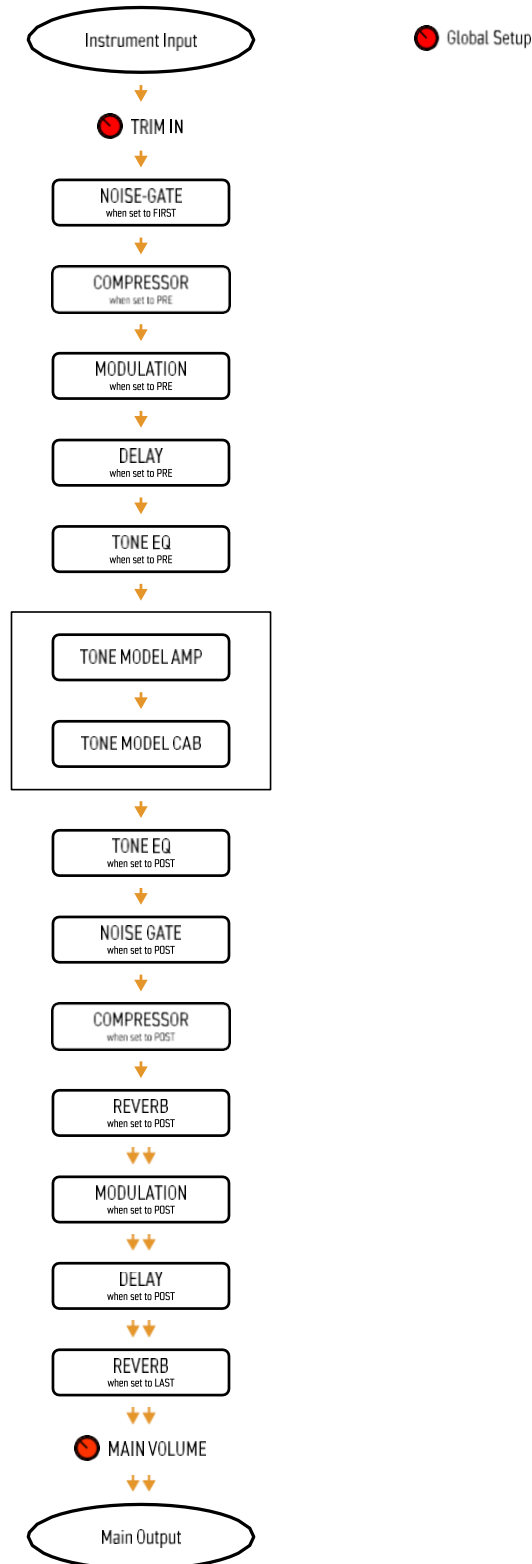
Import Custom IR

Custom IRs are automatically imported when a preset containing a Custom IR as a cabinet is imported into TONEX ONE.

To import a Custom IR into TONEX ONE, select the Custom IR option in the tone model cabinet section in the editor.

Signal Flow

The following flow chart shows the DSP audio signal flow.

Parameters

Main parameters

The main parameters are accessible using the 3 micro knobs and the main knob. These are:

- **Volume (main knob)**
  Adjusts the preset volume.
  It's automatically assigned to the:

  - Tone Model's volume (when the compressor is set to pre).

  - Compressor's makeup gain (when the compressor is set to post).

- **Bass**
  Adjusts the level of low frequencies with a shelf EQ.

- **Mid**
  Adjusts the level of mid frequencies with a bell EQ.

- **Treble**
  Adjusts the level of high frequencies with a shelf EQ.

Alternative parameters

The alternative parameters are accessible by pressing the ALT button (the ALT led and micro knobs start blinking) and rotating the 3 micro knobs and the main knob:

- **Gain (main knob)**
  Adjusts the Tone Model's input gain.
  Use this parameter to saturate more or less your Tone Model.

- **Noise-gate**
  Adjust the noise-gate threshold.

- **Compressor**
  Adjusts the compressor's threshold.

- **Reverb**
  Adjusts the reverb's mix.

Additional parameters

The additional parameters are available when working with presets inside the TONEX for Mac/PC application.
Once you edit these parameters save as a preset and transfer to TONEX ONE.
NOTE: These parameters cannot be accessed on TONEX ONE only in TONEX software.

Noise Gate
- On/Off
- Release
- Depth
- Position

Compressor
- On/Off
- Gain
- Attack
- Position

Modulation
- On/Off
- Position
- Type

Modulation/ **Chorus**
- Rate
- Depth
- Level
- Sync

Modulation/ **Tremolo**
- Rate
- Shape
- Spread
- Level
- Sync

Modulation/ **Phaser**
- Rate
- Depth
- Level
- Sync

Modulation/ **Flanger**
- Rate
- Depth
- Feedback
- Level
- Sync

Modulation/ **Rotary**
- Speed
- Radius
- Spread
- Level
- Sync

Delay
- On/Off
- Position
- Type

Delay/ **Digital**
- Time
- Feedback
- Mix
- Mode

Delay/ **Tape**
- Time
- Feedback
- Mix
- Mode

Reverb
- On/Off
- Position
- Type

Reverb/ **Spring 1**
- Time
- Pre-delay
- Color
- Mix

Reverb/ **Spring 2**
- Time
- Pre-delay
- Color
- Mix

Reverb/ **Spring 3**
- Time
- Pre-delay
- Color
- Mix

Reverb/ **Spring 4**
- Time
- Pre-delay
- Color
- Mix

Reverb/ **Room**
- Time
- Pre-delay
- Color
- Mix

Reverb/ **Plate**
- Time
- Pre-delay
- Color
- Mix

Advanced
- Bass freq
- Mid freq
- Mid Q
- Treble freq
- EQ Position
- Presence
- Depth
- Mix

The full list of modules and parameters available in the TONEX chain can be found in the TONEX for Mac/PC manual.

Parameters

Setup

To access the setup, hold the ALT LED for 6 seconds until it becomes blue.

While in setup mode, each micro knob and the main knob control 4 different setup options:

- **Mode selector** – *micro knob 1*
- **Cab bypass** – *micro knob 2*
- **Input trim**– *micro knob 3*
- **Global volume**– *main knob*

Mode selector

Micro knob 1

Turn the first micro knob counter-clockwise until it becomes green to operate in dual mode. Turn it clockwise until it becomes amber to operate in stomp mode.

Cab bypass

Micro knob 2

Turn the second micro knob counter-clockwise until it becomes green to activate the cabinet on all presets. Turn it clockwise until it becomes red to bypass the cabinet on all presets.

When the cabinet is bypassed, the ALT LED blinks red.

When the cabinet is bypassed during regular use, the ALT led blinks every 5 seconds.

Cabinet on   Cabinet off

Input trim

Micro knob 3

Turn the third micro knob counter-clockwise/clockwise to lower/raise the input trim volume while using its LED as a meter.

No input	Low input	Good input	Clip

Global volume

Main knob

Turn the main knob to adjust the global volume of TONEX ONE.

TONEX ONE as an audio interface

TONEX ONE can be used to play along your favorite tracks to practice, or it can be used to record your guitar tracks by connecting it to your computer. This audio interface feature works at 44.1 kHz and 24 bits.

TONEX ONE for play-along

To use TONEX ONE for playing along to your favorite music, connect it to your PC or Mac and select it as your output audio interface.

Use the controls on your computer/playback application to adjust the computer's volume.

Use the controls on TONEX ONE to adjust your instrument signal's volume and tone.

TONEX ONE for recording

To use TONEX ONE for recording into your computer, connect it to your PC or Mac and select it as your input and/or output interface.

TONEX ONE as an audio interface

When using TONEX ONE as an audio interface, you can record the TONEX ONE processed stereo signal by selecting Input 1 and 2 in your DAW.

If you prefer to record an unprocessed mono DI signal, select stomp mode and push the main switch to bypass the onboard Tone Model. In your DAW, select Input 1 or 2 to record a clean DI signal.

To monitor your sound coming from the computer, plug your headphones into the TONEX ONE output and select Output 1 and 2 in your DAW as the main output.

Use the controls on your DAW/application to adjust the playback volume.

Use the controls on TONEX ONE to adjust your instrument signal's input volume and tone.

If you monitor through your DAW, disable direct monitoring from the TONEX Editor to avoid a double monitoring effect while recording.

If you are using TONEX ONE to feed TONEX software or another amp simulator software, remember to bypass TONEX ONE internal processing by going to stomp mode and setting the pedal to bypass to send only the DI signal to the amp simulator.
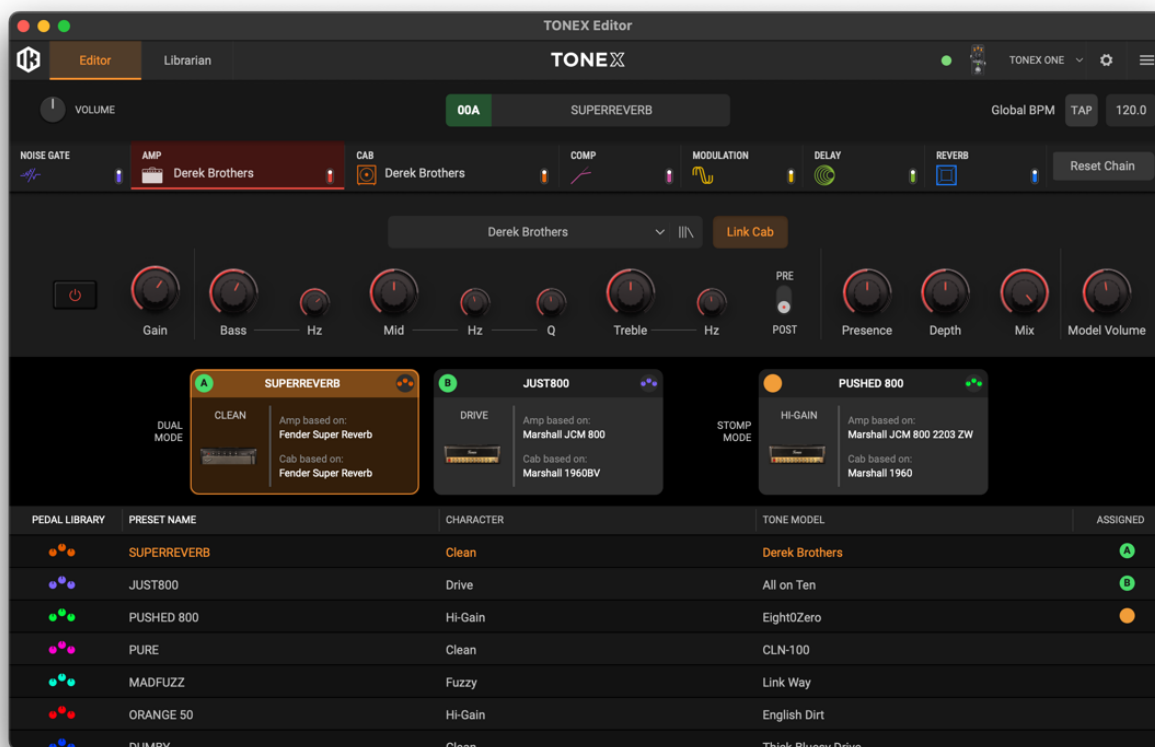
TIP: When connecting TONEX ONE to your computer, you don't need any additional power supply besides the USB C cable.

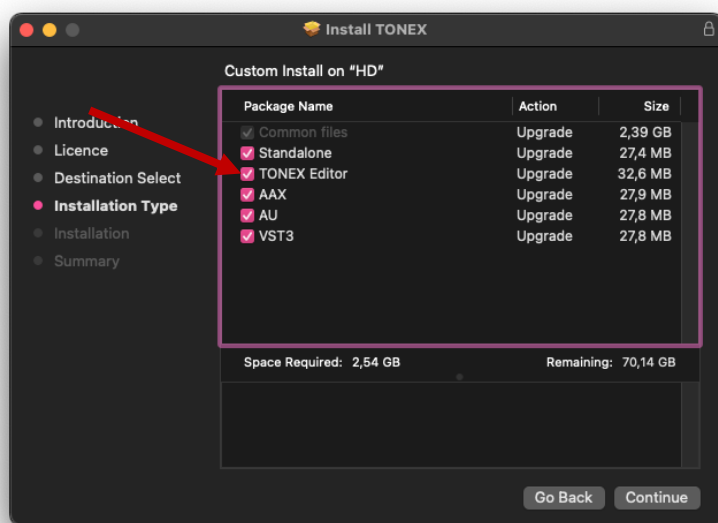*TONEX ONE can be powered via its USB C port when connected to a computer.*
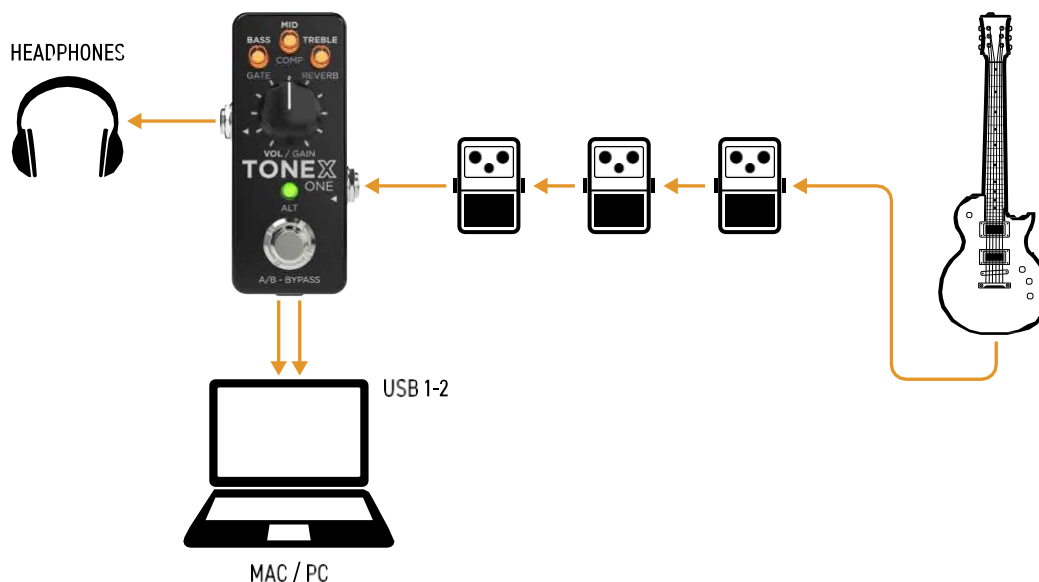
TONEX Editor

Use the TONEX Editor application found in the same installer of TONEX for Mac/PC to manage, edit and transfer PRESETs from your computer to the pedal and vice-versa.

Make sure to check the TONEX Editor while installing TONEX for Mac/PC to install the software.

To learn more about TONEX Editor, see the TONEX Editor User Manual.

Features

Features

- AIMM™ DSP technology. Artificial Intelligence Machine Modeling proprietary technology capable of recreating the essence of amplifiers and distortion pedals, or everything together.

- 20 prests assignable to 3 playable active slots.

- 2 performance modes to use the pedal with two preset A/B or as a stomp on/off.

- Includes tuner.

- Option to bypass the cabinet.

- 3 micro knobs with customizable LED color.

- Ultra-low noise, 24-bit/192k Hz converters for class-leading sound quality.

- 5 Hz–24 kHz frequency response to capture the full scope of your guitar's sound.

- Up to 123 dB dynamic range provides whisper-quiet operation at any gain setting.

- Sculpt your presets with additional DSP processors such as noise gate, compressor, tone EQ reverb, modulation, and delay.

- Fast and straightforward interface with 1 main knob, 3 quick accessible micro knobs.

- The state-of-the-art DSP is enclosed in an anodized aluminum chassis designed and crafted in Italy.

- Suitable for both guitar and bass.

- Headphones output lets you practice in silence with your favorite tone.

- Size: 48 mm/1.89" (W) x 94 mm/3.7" (D) x 53 mm/2.09" (H)

- Weight: 160 grams.

- Model any rig you want using the companion software TONEX for Mac/PC It can capture the behavior of distortion/overdrive/fuzz/boost/EQ pedals, amps and cabs or everything together as a Tone Model to play in your TONEX ONE.

- TONEX Plug-in virtual pedal and amp for AmpliTube included to play your Tone Models easily in AmpliTube.

- Swap the cab in the captured Tone Model rig with any third-party IR or use the advanced VIR technology module included which features a double customizable microphone placement.

- TONEX for Mac/PC SE included. It includes a player to create presets on your computer and an editor to create, organize and swap presets between TONEX ONE and the computer.

- AmpliTube 5 SE included

- Built-in USB port to use TONEX ONE as a 24-bit/44.1 kHz audio interface for recording or for preset management.

- Tone.net sharing platform for exploring and exchanging TONE MODELs.

- Includes: noise-gate, compressor, 5 modulations, 2 delays and 6 reverbs.

System requirements

To review system requirements reference our website.

TONEX for Mac/PC:

www.ikmultimedia.com/products/tonex/#specs

AmpliTube 5:

www.ikmultimedia.com/products/amplitube5/index.php?p=specs

Support

For any questions you may have, please refer to the FAQ webpage at:
www.ikmultimedia.com/faq

Here you will find answers to the most commonly asked questions.

To submit a Technical Support Form, go to:
www.ikmultimedia.com/support

For warranty information, please visit:
www.ikmultimedia.com/warranty

For other requests such as Product, Sales, or Web info, please go to:
www.ikmultimedia.com/contact-us

IK Product Manager

The IK Product Manager gives you one central location to manage all the latest IK Multimedia products. It's your central command for registration, downloads, installation, authorization, checking for updates, and much more.

- Register hardware and software in one location

- Download, install, and authorize software

- Simplified sounds download with pause/resume

- Authorize and de-authorize computers

- Update software, sounds and firmware

- Easily manage your entire IK collection

Download IK Product manager at: www.ikmultimedia.com/pm

IK Multimedia Production Srl
Via dell'Industria, 46,
41122 Modena Italy

IK Multimedia US, LLC
590 Sawgrass Corporate Pkwy. Sunrise, FL 33325
USA

www.ikmultimedia.com

All specifications are subject to change without further notice.

Document Version: 1.3.0
Latest Update: 2025/03/12

IK MULTIMEDIA