

USER MANUAL



autotonic

www.autotonic.net

office@autotonic.net

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by Clemens Slama, Vienna

autotonic

Modal MIDI Transposer



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AutoTonic e.U. by Ing. Clemens Slama
UID-Nr.: ATU71301735
Höfergasse 9-11/1/19,
A-1090 Vienna, AUSTRIA
Contact: office@autotonic.net
Website: www.autotonic.net

Ing. Clemens Slama, Vienna
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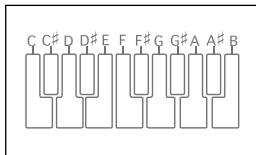
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Glossary

Tonic = Root note, the first degree of a scale and the tonal center or final resolution tone, often also described as the "Pitch" of a scale. Potential root notes are: C, C#, D, D#, E, F, F#, G, G#, A, A#, B



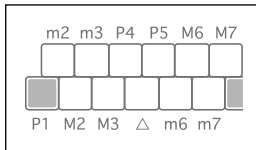
"B" vs. "H"

In some central european countries the note B is also called H.

Scale = A set of musical notes defined by its intervals

Intervals = An interval can be seen as the difference between two notes. In reference to the tonal system with 12 semitones in Western music most important intervals are:

P1, m2, M2, m3, M3, P4, Δ, P5, m6, M6, m7, M7



Intervals:

P1 perfect unison
 m2 minor second
 M2 major second
 m3 minor third
 M3 major third
 P4 perfect fourth

Δ tritone
 P5 perfect fifth
 m6 minor sixth
 M6 major sixth
 m7 minor seventh
 M7 major seventh

Major (Scales) = scales that emphasize their similarity to the Major timbre/quality due to their tonic triad with "P1", "M3" and "P5". Examples: Lydian, Ionian, Mixolydian, ...

Minor (Scales) = these scales are often described as "darker", "soft" or "inverted sounding scales. Examples: Aeolian, Dorian, Locrian, etc. "Minor" also often refers simply to the Aeolian mode (natural minor).

(Church) Modes = A mode is an alternate version of an existing scale which contains the same notes, in the same order, but which uses a different degree of the scale as the tonic.

Ionian mode = also called the "major scale," the Ionian mode is one of the most commonly used musical scales, especially in Western music. The Ionian mode contains the following intervals: P1, M2, M3, P4, P5, M6, M7

Aeolian mode = also called the "natural minor" or simply the "minor" scale. The Aeolian mode contains the following intervals: P1, M2, m3, P4, P5, m6, m7

Descriptions of Scales

For more information on scales, look into AutoTonic's library, which can be opened by clicking on the **SCALE label or on **◀◀** in the scale section.**

Enharmonic equivalent = Note/interval/key signature that is equivalent to some other note/interval/key signature. They do relate to the same sound but are named differently, for example: E \flat = D \sharp

Enharmonic equivalents

AutoTonic makes no distinction between "Enharmonic equivalents". These will be ignored and only " \sharp " will be used exclusively.

✘	B \sharp	B*	C*	E \flat	D*	E \sharp	E*	F*		G*	B \flat	A*
✔	C	C \sharp	D	D \sharp	E	F	F \sharp	G	G \sharp	A	A \sharp	B
✘	D \flat	D \flat	E \flat	F \flat	F \flat	G \flat	G \flat	A \flat	A \flat	B \flat	C \flat	C \flat

What is AutoTonic?

AutoTonic is the most versatile realtime Note-Signal Processor of its kind. It combines hundred years of conventional music history with a game-changing triggering technique to map any existing scales (or scales you create yourself) in a simple and intuitive way to the white keys of your keyboard. The need for this technology in the form of a live operating preprocessor has been an ever-growing demand since the invention of the harpsichord – the grandfather of instruments with a linear keyboard. By a clever and patented method, AutoTonic has finally accomplished the goal: bringing music theory right to your fingertips, making the whole thing as easy as possible.

Combining the power of advanced scale mapping with an instant responsive keyswitch method that is placed at the closest possible point – right next to your note-playing fingers – AutoTonic is a highly creative songwriter production tool that is applicable to all genres of music. So whether you're producing EDM, Pop, Hip Hop, Classical Music or other styles, and whether you are working in the studio or performing on stage, you'll find in AutoTonic what every musician has always wished for: to be skilled enough to play in any harmonic context with ease.

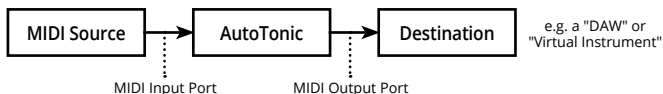
One important characteristic of AutoTonic is that it will not play any notes for you automatically, it will not restrict you in any way on how your music has to sound. Its groundbreaking transposing engine will pitch-correct very complex musical processes for you, just the way you played them, raising your compositions to completely new heights without the need to learn any further music theory.

Since tonal modulation is one of the biggest secrets of musicians and songwriters of all time, with AutoTonic you now have access to any desired scale in Western tonal music that has ever been used for any existing or potential future hit record.

With AutoTonic, you'll simply discover harmonies you didn't know were there ...

AutoTonic requires Virtual Cabling

AutoTonic works in terms of a "sandwich processor" in between the signal's source and the desired OUTPUT destination (Virtual Instrument, DAW, etc.). Since AutoTonic isn't meant to produce any signals on its own, it requires a external MIDI Source (e.g. your MIDI Keyboard Controller) to provide input.

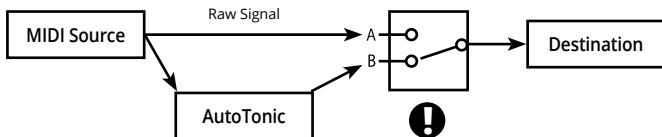


AutoTonic's processed signals are then forwarded by default to the "AutoTonic MIDI Out" port, a virtual MIDI driver which will act as a bridge to your dedicated signal target. Alternatively, you can select any other destination corresponding to any of the ports you wish to use and that are available on your system.

Important

Windows does not come with its own virtual MIDI ports, so if you're a Windows user, you might need an additional MIDI driver running in the background. A number of these can be found on the internet for free (e.g. midiox, loopbe1, ...).

Prevent your target application from message doubling! To make sure your target application is receiving only AutoTonic's processed signals it might be necessary to set up a virtual A/B-switch (annot. "pipe/translator/cable-switch") to enable toggling back and forth between the raw and AutoTonic's processed MIDI signal.





Features of AutoTonic

- ✓ **Advanced Note Transposing:** Through a unique and patented system developed in Vienna, AutoTonic automatically and dynamically allows you to play in any harmonic context existing in Western tonal music with ease.
- ✓ **Flexible Key Mapping:** Offering a true linear fingerboard, AutoTonic allows the player to focus entirely on his finger movements instead of thinking about scale patterns or finger positions.
- ✓ **Integrated Scale Library:** AutoTonic comes with a massive library of over 50 prebuilt scale templates along with useful background information and performance suggestions for each scale template.
- ✓ **Customizable Scales:** besides the usual copy and move capabilities, you'll also be able to access and edit all template scales in the library, and build new ones - creating unique new scales with very few clicks.
- ✓ **Intelligent Live Functions:** AutoTonic's new key switching technology allows you to control AutoTonic right from your keyboard by reinterpreting the black keys as function buttons - access your harmonic content without the need to look at your screen!

For more details visit: www.autotonic.net

Software Installation

Mac OS X Installation

- ✓ To get started, download the installer for your Apple OS X operating system that you received with your order from the www.autotonic.net website
- ✓ Locate the downloaded installer file in the Finder
- ✓ Run the installer file
- ✓ To proceed, you must accept the license agreement. After you have read the license agreement, check "I agree" and continue
- ✓ The Setup Program will lead you through the installation procedure. Follow the on-screen instructions, and after the installation has been performed successfully, click Finish

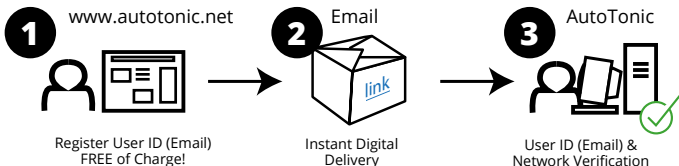
If you need to remove AutoTonic manually, you'll find its installed files here:
/Applications/AutoTonic.app

Windows Installation

- ✓ To get started, download the installer for your Windows operating system that you received with your order from the www.autotonic.net website
- ✓ Use Windows Explorer to locate the downloaded installer file
- ✓ Run the installer file
- ✓ To proceed, you must accept the license agreement. After you have read the license agreement, check "I agree" and continue
- ✓ The Setup Program will lead you through the installation procedure. Follow the on-screen instructions, and after the installation has been performed successfully, click Finish

If you need to remove AutoTonic manually, you'll find its installed files here:
C:\Program Files (x86)\AutoTonic\AutoTonic.exe

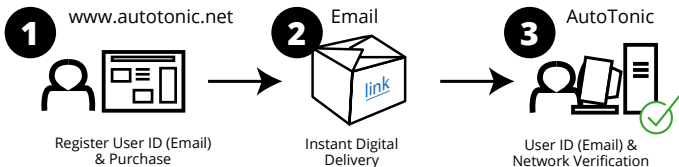
Demo Version (Free)



Restrictions:

- ✓ Must be restarted every 10 minutes
- ✓ Expires after 14 days

Full Version Authorization

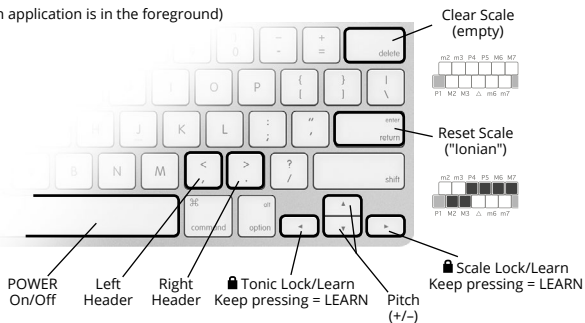


To permanently unlock AutoTonic, please visit www.autotonic.net and follow the purchase instructions. Accepting the License Agreement and creating a User ID (email & address) are required. After your order is complete, you will receive an email with your download link. When running AutoTonic for the first time, please make sure that you're connected to the internet – a network validation is required to unlock.

Shortcuts Overview

Keyboard Shortcuts

(when application is in the foreground)



LEARN Functions

While holding down ◀ (left arrow key), pressing any key on your Hardware MIDI Piano will set this note as your new learned OUTPUT tonic.

The same principle applies with the ▶ (right arrow key) for learning new scale intervals, but here each desired interval will be toggled On/Off separately using the corresponding key on your Hardware MIDI Piano.

Scale Learn:

The corresponding Intervals/Notes: Regardless of which tonic the current scale is based on, while using the "Scale LEARN" function all intervals act as though their tonic were a "C".

m2	m3	P4	P5	M6	M7
C#	D#	F	G	A	B
(C)	D	E	F#	G#	A#
P1	M2	M3	△	m6	m7

Mouse Actions

In AutoTonic, the left mouse button is used for selecting, choosing menu items, clicking buttons and selecting objects. The left mouse button is also used for repositioning and copying Headers.

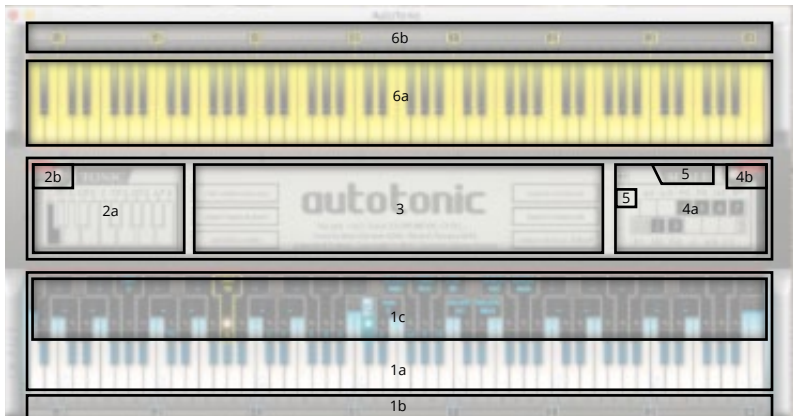
- ✓ Click & drag Headers to swap them in place
- ✓ Alt + Click & drag Headers to copy them to another position
- ✓ Click & drag INPUT Anchors to offset the INPUT signal's pitch for a dedicated Header
- ✓ Click & drag intervals (in the ScaleModifier) for quicker scale modifying
- ✓ Shift + click to reset a Header to C/Ionian(Major)
- ✓ Clicking into the center screen area will hide all menu buttons

Clicking on a Header with the right mouse button (or on mac by holding the control key while clicking with the mouse) is used for opening a context menu, where these helpful functions will be available:

Header
Context
Menu

- Copy Header Settings
- Scale Modifier: Lock
- Scale: C/MAJ(Ion)
- Paste Header Settings
- Scale Modifier: Unlock
- Scale: Empty Intervals
- Tonic Modifier: Lock
- TonicScale: Lock
- All: Unlock (Clear Scene)
- Tonic Modifier: Unlock
- TonicScale: Unlock
- All: RestoreDefault

Control Elements Overview



1a INPUT Keyboard

2a TONIC Modifier

4a SCALE Modifier

6a OUTPUT Keyboard

1b INPUT Anchors

2b TONIC Lock

4b SCALE Lock

6b OUTPUT Anchors

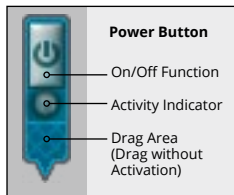
1c Headers/PowerButton

3 "MainCenterScreen"

5 Open/Close Library

POWER Button

The POWER Button toggles between the processing engine's active and inactive status. When POWER is OFF, no transposing will be applied and all signals will be let through without any change applied to them. When POWER is ON, an indicator will light up indicating the transposing engine's active status.

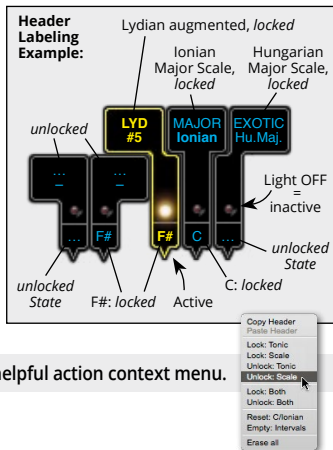


The POWER Button can be moved horizontally and placed on top of a desired black key. It can be triggered by clicking with the mouse or by playing the MIDI note it is placed on. By default, the POWER Button is placed on MIDI key #61.

Headers

Memory character

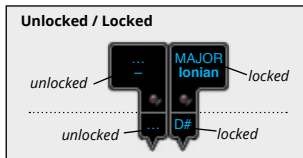
Headers are the "brain" of the scale scenarios. Each Header acts as a separate memory location, and stores/hosts its own modifier scenario. Only one Header can be active at a time. When set, a light will indicate its active status. Any Header can be moved horizontally and placed on top of any black key. When a Header is dragged to another destination, it will swap places with the previous Header. Headers can be triggered by mouse or MIDI signals.



Mouse: Right clicking on a Header will open a helpful action context menu.

Header Text Labeling

Each Header has two separate text labels which indicate if either the TonicModifier or the ScaleModifier Lock Switches are locked or unlocked. An unlocked modifier is indicated by an ellipsis ('...'). This results in a state where all settings can be overwritten.



- ... An ellipsis glyph indicates that a Header's modifier state is unlocked and might be not protected from being overwritten.

Header Text Abbreviations

ScaleModifier=locked & setting exists: If a Header's modifier is locked and a record is found in the library that matches the exact same settings, then the abbreviated text form of the record will be printed on the Header's text label indicating that this specific Header uses a given preset and it is preserved from getting overwritten.

ScaleModifier=locked & no match is found: If a Header gets locked and no library record exists that matches the ScaleModifiers interval state, then a temporary user scale (Scale 1, Scale 2, etc.) will be created and it is preserved from getting overwritten.

ScaleModifier=unlocked: If the Header's ScaleModifier is unlocked no text will be printed (ellipsis only) and the Header could get overwritten at any given moment.

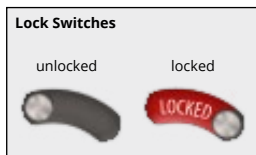
Overriding Headers

When switching to a Header having either the Scale- or Tonic-Modifier unlocked (indicated by an ellipsis glyph) this modifier's state will be overwritten instantly with the previously used Header state. This method allows the user to simultaneously activate multiple Headers, whose settings may be merged together.



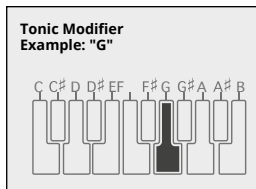
Lock Switches

These "Locks" make the Scale- or the Tonic-Modifier settings permanent, protecting a Header's setting from being overwritten by switching Headers.



Tonic Modifier

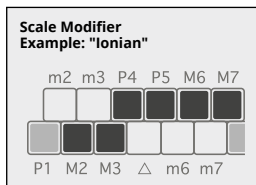
The "TonicModifier" allows the user to select the tonic/root note for the potential OUTPUT material. By clicking into this area, one of the 12 available tones will instantly become the transposed material's new root note. The result will be displayed as yellow tinted keys in the OUTPUT keyboard.



Mouse: **For faster results you can also click-and-drag the mouse in this area!**

Scale Modifier

The "ScaleModifier" allows the user to choose from multiple intervals of the 12 most commonly used musical intervals in Western tonal music. By enabling or disabling each interval step, the resulting musical content will be instantly recalculated and displayed as yellow tinted keys in the OUTPUT keyboard.



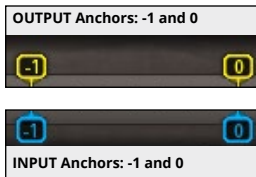
Mouse: **For faster results you can also click-and-drag the mouse in this area!**

Numerical Indexes

Anchor Index Numbers

The INPUT/OUTPUT Anchors are located next to each keyboard. Each anchor represents an irregular index number which will indicate the corresponding positions of the note sections of a Headers tonic/scale scenario, and where the root notes (Octaves) can be found on the keyboard.

While the INPUT Anchors can be dragged horizontally with the mouse (Pitch Compensation), the OUTPUT Anchors are fixed and only change when the initial source notes themselves are modified.



Pitch Compensation

The INPUT Anchors can be moved up or down to change the overall pitch (note height) of the incoming signal. This might become especially useful when compensating for the range of two Headers having root notes far apart (e.g. "C" and "B").

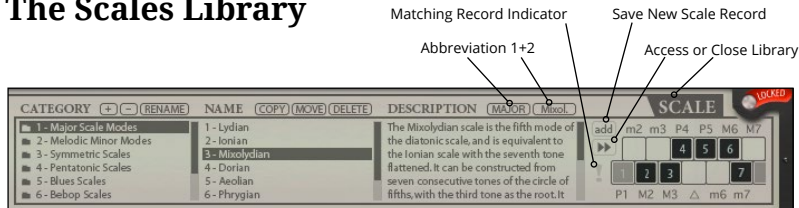
Pitch +/- **Avoid hardware pitch functions, use AutoTonic's pitch compensation instead!**

Note Index Numbers

Between each pair of INPUT/OUTPUT Anchors, there are small Note Index Numbers. With the help of these indicators, each individual key's position can be located anywhere on the keyboard or in the ScaleModifier.



The Scales Library



AutoTonic already comes with over 50 ScaleRecords, covering a huge field of music history. This preset library lets you choose from the world's most fascinating music scales, as well as those you create yourself. Any possible scale in *Western tonal music** can be defined and managed here.

Scale records are stored in *category* banks which are located on the far left side of the library window. Once a scale within a *category* is selected, the scale *description*, *Header-Abbreviations1+2* and ScaleModifier settings are updated and can then be played.

Matching ScaleRecords Indicator

When manually configuring custom scales in the ScaleModifier, any matching record will be detected instantly with a realtime comparison against the existing library data. This way, you'll always be kept informed if a scale you have created already exists in the library. If a matching record is found, it will be indicated in two locations:

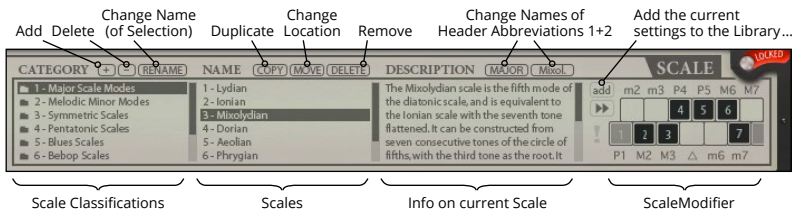
Exclamation mark: A **!** will be visible to the left of the ScaleModifier if a scale matches an existing library record. Opening the library by clicking **◀◀** or the **SCALE** label will reveal information about the related scale.

In CleanScreenMode: When the menu buttons are hidden in the MainCenterScreen (you can hide the buttons by clicking in the middle of the MainCenterScreen), all matching ScaleRecord information will be shown in the middle of the screen.

Managing Library Files

Any scale presets within AutoTonic can be edited using the libraries browser functions. The library window is displayed by clicking the **SCALE** label located above the ScaleModifier or the **◀** button. The library can be closed by clicking again on the same label/button (which will be **▶**) then. The list of scale *categories* can be found on the left of the MainCenterScreen. Clicking on a *category* name will fill the list of scales located in the center of the window with the names of the scales included in the selected *category*.

A new *category* can be created by clicking on the **+** button above the *category* list. This opens the "Create New Category" window in which the name of the new *category* can be entered. To delete a *category*, first select it in the *category* list and then click on the **-** button. Be careful, since this command erases a *category* and all the scales it contains; this operation is permanent and cannot be undone. To rename a *category*, simply click on the *rename* button and enter a new name.



Scale presets may be selected by clicking on their *name*. This will update the scale *description*, the *HeaderAbbreviations1+2* and the *ScaleModifier*'s interval settings. The scale *description* and the *HeaderAbbreviations1+2* can be modified by clicking on the corresponding text areas, which will open a dialog for editing.


To copy a scale file into another *category*, it must first be selected by clicking on its entry in the scale *name* list. It may then be copied by moving the mouse to a different *category* in the *category* list on the left and clicking on the *category* name.

To delete a record, select it and then click on the Delete button.

Header Abbreviations

Header abbreviations (*HeaderAbbreviation1+2*) are used to specify what scales are stored in each Header position in the INPUT keyboard area. Because of the tight space limitations of the horizontal keyboard layout, only a few characters can be used for each line. By default, AutoTonic's library contains some predefined abbreviations, but you can change them by clicking inside one of the two small name fields above the *description* area.

Here are some Abbreviation Examples:



<i>Scale-Name</i>	<i>Abbr.1</i>	<i>Abbr.2</i>
Diminished Whole-/Half-tone Scale	SYMM	Dim.WH
Double Harmonic Major	HARM	2xMaj
Major Pentatonic	MAJOR	Maj.Pt
Melodic Minor (ascending)	Mel.MIN	Asc.(+)
Melodic Minor 5th Mode	Mel.MIN	5thMode
Harmonic Major	HARM	Harm.Maj
Major Scale "Ionian"	MAJOR	Ionian

Abbr. Criteria The names have to meet certain criteria: max. 5 - 8 characters/line are allowed (width-dependent), numbers are allowed, only standard Latin UTF-8 characters

"ExportDatabase, ImportDatabase & RestoreDatabase

On the right of the "MainCenterScreen" are three dialogue buttons:

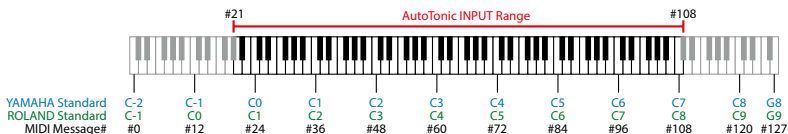
ExportDatabase: If you want to save all your modifications for another session or share your presets with other users, you can export all library data and Headers at once. Simply select the *ExportDatabase* button in the MainCenterScreen and type a suitable name.

ImportDatabase: Loads external library and Header data as described above.

RestoreDatabase: If necessary, it is possible to restore the original factory library of categories and scales by using the "RestoreDefault" button. This will also overwrite all Headers and simply reset AutoTonic's settings to their factory default state.

Data loss: "Import" and "RestoreDatabase" will overwrite existing settings. Use carefully!

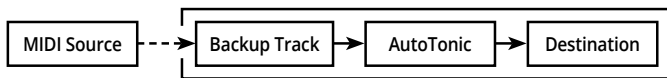
MIDI Messages Range



AutoTonic processes all MIDI Notes on Channel 1 from #24 up to #108. Since various MIDI note labeling standards exist, AutoTonic refers only to MIDI Message Numbers (#).

Recording with a MIDI Backup Track

As it is common in studios with audio signals, you might consider recording both a processed and an unprocessed backup track of your MIDI performance. Doing so will enable you to completely reenact AutoTonic's operations and scale switching, but will also require you to carefully save and reload all project related database by using the import/export database dialog.



No Limits

Improvise, compose or retrack: Use AutoTonic for high-end productions in the studio or as a creative live tool – the MIDI protocol is your only limitation.

End User License Agreement

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FAQ – Questions & Answers

Installation

How do I setup AutoTonic?

1. CONFIGURE AUTOTONIC'S INPUT:

In AutoTonic, press the "MIDI I/O" button. A dialog will open and show you the INPUT ports available on your system. Select the devices you want to use.

2. CONFIGURE AUTOTONIC'S OUTPUT:

In the same window, you'll find all OUTPUT ports available on your system. Select the target port to which you want to forward AutoTonic's processed signal.

3. CONFIGURE YOUR TARGET APPLICATION:

Once you have set AutoTonic's MIDI flow to a target port, the last step is to select the latter within the target application for the connection to be complete.

Important:

**Windows does not come with its own virtual MIDI ports, so if you're a Windows user you might need an additional MIDI driver running in the background. A number of these are available for free:
e.g. "midiox", "loopmidi", "rtpmidi", "loopbe1" etc.**

Demo Version

What are the demo limitations?

- ✓ Needs to be restarted every 10 min
- ✓ Automatically expires after 14 days

Do I need to register to get the free AutoTonic demo download?

Yes, only registered users will be able to download it.

Full Version

What's included with my purchase?

- ✓ Full unlimited access for any platform (Win/Mac) for the rest of times
- ✓ 1 Single User License which allows you to run AutoTonic on up to 3 computers, as long as only one is running at any given time
- ✓ Includes free Updates
- ✓ Includes free Email-Support

How long is my license valid?

Paid licenses have no expiration.

May I install AutoTonic on more than one computer?

Yes, the 'Single User License' allows you to run AutoTonic on up to 3 computers you own, as long as only one is running at any given time. In case you want to transfer your AutoTonic license from one compatible device to another, you have to unregister it from the first. All AutoTonic transfers must be validated by AutoTonic customer support – but such a transfer might could take (at the moment) up to 24-48 hours! We're looking forward to improve this in an upcoming update. To initiate an AutoTonic Transfer Request, please contact us here:: registration@autotonic.net

Can I recover an authorization in case my laptop gets stolen or broken etc?

Yes. Please contact us directly here: registration@autotonic.net

Can I transfer my AutoTonic license to someone else?

No, we do not offer license transfer at this time.

Subscription-plan Version

What's included with my AutoTonic Subscription-plan purchase?

- ✓ Unlimited access for your subscription period
- ✓ Membership expires automatically, the service begins as soon as your initial payment is processed
- ✓ 1 Single User License which allows you to run AutoTonic on up to 3 computers, as long as only one is running at any given time
- ✓ includes all Updates within your subscription period

Is there a automatic renewal clause?

After the subscription expires your contract will become inactive, and you will not be billed any further charges. The service expires automatically, no need to get active then, in some cases it even might run a few days longer than expected :)

Can I use my AutoTonic Subscription-plan on multiple devices?

The subscription versions 'Single User License' allows you to run AutoTonic on 1 computer (1-year version), respectively up to 2 computers (3-year version) you own, as long as only one is running at any given time. In case you want to transfer your AutoTonic license from one compatible device to another, you have to unregister it from the first. All AutoTonic transfers must be validated by AutoTonic customer support – but such a transfer might could take (at the moment) up to 24-48 hours! To initiate an AutoTonic Transfer Request, please contact us here: registration@autotonic.net

Can I transfer my AutoTonic Subscription-plan license to someone else?

No, we do not offer such license transfers at this time.

Can I recover my AutoTonic Subscription-plan in case my laptop gets stolen or broken etc?

Yes. Please contact us directly here: registration@autotonic.net

System Requirements

Which is the best MIDI keyboard controller for controlling AutoTonic?

The answer will depend very much on your own circumstances. Generally speaking, any standard MIDI controller having at least 1 octave and a traditional keyboard will work fine with AutoTonic's functions.

What are the minimum system requirements (Win/Mac)?

OS X 10.7.3 (Mac) or Windows XP (Win). 256 MB of RAM and 10 MB of free hard drive space are recommended for standalone usage.

Troubleshooting

The program won't launch, what should I do?

AutoTonic requires an internet connection the first time you sign in. Please make sure you do not have any firewall or anti-virus programs blocking AutoTonic or its launcher.

I don't hear any sound when I press the keys ...

If you don't get any signals, make sure you've selected the correct MIDI ports in AutoTonic's MIDI settings. AutoTonic should always be launched first, so that its virtual ports are available if need be.

There's a horrible note doubling effect in my sound generating software?

This indicates that the software is receiving both the processed and the unprocessed signal. To solve this, simply deactivate any other MIDI ports that AutoTonic is not also using. Please also refer to the manual and follow the suggested MIDI setup preparations, e.g. when working with a DAW.

Miscellaneous

What sounds does AutoTonic contain?

AutoTonic does not generate any audio itself.

Is AutoTonic compatible with the software I am using?

AutoTonic is meant to be a sandwich processor (between the INPUT device and the desired OUTPUT target), and therefore AutoTonic supports any MIDI-based Virtual MIDI Instrument or DAW existing on Win or Mac ...

What distinguishes AutoTonic from other MIDI processing engines?

AutoTonic offers a completely new approach to keyboard playing by using a patented keyswitch technique to map any potential/possible scale in Western tonal music (which is based on 12 pitches) to your keyboard in realtime. Note transposing has never been so easy, and this is what makes AutoTonic so incredibly useful and unique.

I've tried using a stolen/illegal copy of AutoTonic and got listed, am I still being qualified to purchase the full version/subscription version without any troubles?

Sure, go for it and don't care. In this case your karma will be reset and we will not mind it any further. You finally supporting this project is the best thing that can happen for the further development ...

What if AutoTonic goes out of business one day?

Then all full version users will receive particular 'unlocked' installer files for the latest existing AutoTonic Win/Mac-version at this given moment, which will allow them then to use AutoTonic completely freely from any network connections for the rest of all times.

How can I report an issue?

Please contact us here: support@autotonic.net

Notes

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autotonic

www.autotonic.net

office@autotonic.net

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