BETTERMAKER C502V
Operations Manual

The Bettermaker crew would like to thank all the people that were deeply involved in the development of our first products, from
EQ230P till this day.
Thanks to all the Beta-testers that gave us hands-on tips and all people involved in the conceptual stage. We hope we have listened to you carefully so as to produce an ideal tool in the hands of every engineer.
Thank you guys!

I would like to personally thank my development team, the past and the present as their passion to work and bright minds made all that happen. I would not take all my wild concepts to the point they are now without you guys.

Marek.

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Important Safety Information

WARNINGS

• Do not operate this unit in the presence of rain, liquids, or condensing moisture. Liquid entering the product enclosure presents the risk of electric shock injury.

Practical Safety Precautions

Do not operate the Bettermaker C502V underwater, uncovered in the rain, in a sauna, or anyplace near water. Always be sure to protect the unit from dust, particles, water, beer, groupies, and stage divers.

I. Introduction

Congratulations on your purchase of the Bettermaker C502V Compressor - all analog sound with the flexibility of digital control! Welcome to the family! The hybrid audio compressor now in your possession is the result of years of research and development in emerging digital control technologies. The final hand-built result is currently glowing happily in your rack (Lucky you). The C502V brings the flexibility, ease of use, and instant recall-ability of software plugins to the realm of high fidelity analog processing like no other analog Compressor on the market.

Company

Addicted to Music began in 2004 in Warsaw, Poland as a recording and mixing studio. Long before it was a hardware company we were deeply involved in the international music and recording scene. This is not a company run by scientists who crunch numbers all day, we are a company run by engineers who live, eat, and breathe music (like you do). We know good sound, and know first-hand what it takes on both sides of the glass to capture the perfect take. We developed the C502V to go from the perfect take, and make it even better!

Unit

The Bettermaker C502V was designed to have the greatest flexibility of any analog Compressor, while still allowing absolute recall and repeatability. We often found the strengths of software plug-ins wasn't their sound, but the ability to quickly audition different settings. This allowed us to make faster, better informed musical choices. The ability to jump back and forth between (sometimes vastly different) settings allowed us to keep a clear vision of the sonic goal in mind, while quickly making decisions on the best setting to use. However, we recognized the sonic superiority of our analog gear compared to their digital counterparts. In countless shoot-outs, the analog versions always won. Since we're a company that cares about better sound over processing speed, our engineers would take the extra time to use a full analog chain because it simply sounds better. We developed the Bettermaker C502V to give us the speed of plugins, but the fidelity of analog.

In the traditional analog world the time spent in the act of having to set and reset knobs and buttons to audition between settings often skewed our choices. More time was spent tweaking knobs trying to recover an earlier setting than was spent listening. The limited resolution of the mechanical parts often meant only very coarse adjustments were possible (previously only solvable by very expensive mechanical switches). A difficult situation to say the least, but the greater fidelity, openness, and depth of the analog gear was always worth it to our ears.

Even after years of advancement in digital algorithms, the older analog versions always sounded better. With these goals in mind, we strove to create a hybrid Compressor that was the best of both worlds: A true analog Compressor based on classic designs, but with the repeatability, fine resolution, and consistency of digital plug-ins. Enter the inspiration for the Bettermaker C502V!

Design History

The C502V is a new approach to a well known VCA compressor design.

We began with the analog sections. Choosing modern components and design practices over older traditional methods helped maintain the transient response and low noise-floor necessary for today's recording practices. Wherever possible we choose over-spec'ed components to ensure trouble free operation and a long product life. Where feasible we increased the gain resolution and frequency range to ensure the greatest flexibility no matter what source (from tracking to 2-bus and mastering applications). Most importantly we listened first, tested, and then listened again. We hope you enjoy your C502V. Now go make some music Better!

II. Standards, Use and Alignment

The Bettermaker C502V is designed according to international standards, and is fully functional in any location with proper power and 500 format enclosure available. This includes but is not limited to studio, stage, video post, on-location, festival, corporate, and both installed and temporary audio solutions. This compressor is excellent in festival situations as its instant recall makes it perfect for fast resetting between multiple stages. Once you grow accustomed to the amazingly quick recall and flexibility of this Compressor, we believe you will find new uses and applications for it in your professional workflow. You may never want to be without it. The Bettermaker C502V is a stand alone module to be installed into an API 500 series compatible rack frame (sold seperatly).

The current consumption is 8W (250mA@+16V, 250mA@-16V for both slots). Take note that C502V takes two 500 spaces. Most API 500 compatible racks will meet this requirement without problems, but there might be a limitation of how many units can be installed in a single rack. In case of doubt please check with the manufacturer of your specific rack. Please allow the unit to warm up for about 10 minutes to be sure all parameters are stable.

III. Hardware

This basic overview of the hardware design approach of the Bettermaker C502V will help further your understanding of its sophisticated toolset and purist design.

Internal Routing

For normal operation it is not necessary to access the interior of the C502V. In the event of possible failure, please see Part IX, Trouble Shooting, where many issues can be solved. The analog and digital sections of your hybrid C502V are completely separate and isolated. This keeps any control voltage for the digital section away from the sensitive analog components and lowers the overall noise of the unit.

Analog Section

Great care and thought went into the development and implementation of the analog section of the Bettermaker C502V. High quality capacitors are used throughout the analog path. All analog PCB is totally separate and isolated from the digital section. This keeps each channel of the compressor within tight tolerances, resulting in precise stereo tracking and thus a more natural, open stereo spread with no phase shift between channels. Exacting performance results in nearly unmeasurable differences between channels at all frequencies and levels and 100% repeatable preset recalls.

Digital Section

All digital circuits are separated from the analog sections. Memory cells are stored in non-volatile EEPROM Memory. This means that your custom saved states will not be lost even if power is disconnected from the unit. The current power-on condition is retained when the unit is manually switched off. The USB type B connection lets you use it as you would use a plugin in your DAW, including automation and recall with session opening.

Installation in a 500 rack

The Bettermaker C502V can be quite easily installed in to a API 500 series compatible rack. However if you are unsure, please ask someonse more expirienced to help out. Here are a few steps to install the C502V in to a API 500 series rack. Switch your API 500 series compatible rack off and disconnect the power cable from mains. Insert the module into two free slots of your rack. Make sure both PCB connectors match with the rack connectors. Push the module in place - do not use any excessive force, they will fit sung, but should easily align.

Tighten the front panel with four screws provided by your rack manufacturer. Connect the audio cables and apply power to your rack. Now you are ready to make it Better!

IV. Front Panel

The Bettermaker C502V front panel is divided into 2 main sections and a clip indicator. To keep a clean and modern design aesthetic. All knobs are machined out of solid aluminum and are securely mounted to the detented digital encoders. All knobs rotate as digitally encoded increments and decrements. The exceptions are the 'Preset', "Wet/Dry" and "Attack/Release"

knob, which rotate as a digital encoders, but also have a special function as a push-button menu selector.

Ergonomics

You will soon discover that the C502V ergonomics make this compressor comfortable, easy to use, fun and addictive! For example, the knobs are velocity-sensitive (besides the make up gain knob), resulting in coarse changes when spun quickly, and very precise fine increment/decrements when turned slowly. These knobs quickly and easily let you get to the level or frequency you desire or perform fine resolution. Experience this once and you will be hooked. The indicator lights around the knobs and switches are easy to read and give a clear indication of the frequency, bandwidth or range, coupled with a numeric readout in the LED display whenever a knob is turned or a bandwidth or frequency switch is pressed. The look and feel is so comfortable that you can operate this Compressor in the dark and comfortably find all the knobs just by feel.

Bypass Section

On the left lower corner is the ENGAGE button. The unit is IN when its engage LED is led. When the ENGAGE button is OUT, the entire unit is bypassed. To hear any changes the Compressor may be making, the ENGAGE button must be IN. The unit will also pass signal in bypass when fully disconnected from mains power. When you use it in Unlink mode, remember that it the ENGAGE will be unlinked too, this way you will be able to bypass only one channel.There is one exception to the rule: When you work in M/S mode, unlinking the compressor will not unlink the Engage button and it will still remain linked.

Clip Indicators

Two red LEDs illuminate if the headroom has been exceeded. This can occur by driving a signal too hard into the Compressor, or by applying too much boost woth the make up gain. Clip detectors are located at the output and input of the compressor. If clipping does occur, lower the input level feeding into the unit until the LEDs stop blinking.

Presets

On the lower right corner is the PRESET section (pictured above), which saves and recalls the entire state of the unit. The multi-purpose knob can rotate as a digital encoder and be pressed as a menu selector button in tandem with the 3-digit LED Read-out. Operation is described in detail below in Part V, Software.

Stereo / Dual Mono / MS

Over the preset section is a stereo/dual mono selector button (pictured above). This unlinks the channels ofthe C502V to allow dual mono and MS processing. For example, during tracking, one channel could equalize the main vocal, and the other the bass. In mastering, one channel could have a different setting than the other (with caution to
avoid dynamics and image shift if making extreme changes). Or, an built in MS converter may be used to separately compress the M and S channels during mastering. You can even use different modes on Mid and Side.

Currently the CH button cycles through three states. A long press (about 1 second) switches between LINK (stereo) and UNLINKED (dual mono) mode. A short press switches channels when in UNLINKED mode.

For example:

1) Unit is in stereo operation and LINK is illuminated.

2) Press CH to switch the unit to dual mono; the indicator now displays 1 showing you are in control of channel 1. The state of channel 1 is remembered from the last time the dual mono state was used, so no information will be lost when switching back and forth between Linked and Dual Mono states. When unlinking, both channels receive the same setting (setting of channel 1). So If you use the dual mono mode, be aware that linking it back will copy channel 1 setting to channel 2.

3) Press CH (a short brief touch) and the indicator displays 2 showing you are in control of channel 2. You can alternate between controlling channel 1 or 2 by a simple short press of the CH button.

4) Press and hold CH (for about 1 second) and the compressor returns to LINK mode

USB Activity

The USB LED lights up when the compressor is connected to a host computer. Activity shows up as USB LED is led.

Front panel DIM.

The fornt panel LEDs have 20 levels of brightness. To change the brightens of the fornt panel, push and hold the Attack/Release button and adjust with the preset encoder. You can also make the panel completly black with minimal brightness setting.

V. Software

The sound of an compressor is of course based on the quality of its hardware design. This unique compressor is also a hybrid; all control and user interaction are performed in the digital software realm. This allows us to incorporate options and possibilities not found in any standard analog compressor—including:
• Save and recall of 399 states (that's a lot of trees saved in recall sheets)
• Instant reset
• Rapid, precise and repeatable gain adjustment
• Precisely-linked stereo operation with the ease of a single control
• Undo!
• Automation
• External Sidechain
• Lookahead

Recall States
Recalling is simple. The PRESET knob is both a rotary encoder and a push button. Any preset (1-399) can be recalled at any time. Rotate the PRESET knob until the LED display shows the correct number of the save-state you would like to load. Once the correct number is shown on the display, press the PRESET knob once. The new state is now loaded on the hardware, and all LED displays around the knobs represent the current state of the hardware.

Undo
If you accidentally load settings that replace your current one, you can go back to the earlier state by loading memory-cell UND. This clever memory always stores the setting one step before the last change, so it serves as an instant undo. Loving the C502V means never having to say you're sorry!

Storing Custom User States
With 399 memory cells, there are many opportunities to try different setups for each source and quickly choose the best one as needed. This is one of the greatest strengths of our hybrid Compressor approach, so don't be afraid to experiment. To save your own custom setting into the unit, rotate the PRESET knob to an unused memory cell (or one you wish to overwrite), then press and hold the PRESET knob for 2 seconds. The LED display will change to a dialog saying NO. Turn the PRESET knob till the LED display shows the YES dialog and confirm your selection by pressing the PRESET knob again. The display will now show SAVEd and you will notice a small red dot in the lower right corner of the LED display indicating the information has been stored. The No/Yes dialog is a safety feature—it ensures you cannot mistakenly overwrite a memory cell.

Reset State
Pressing the PRESET knob twice in quick succession will reset the unit. This conveniently zeros out all parameters.

Memory Clear (Delete)
Though it's unnecessary in practice, if you ever want to clear a memory (perhaps to hide your most secret Compressor setting from prying eyes), start with the same procedure as storing: rotate the PRESET knob to a used memory cell, then press and hold the PRESET knob for 2 seconds. The LED display will change to a dialog saying NO. Turn the PRESET knob till the LED display shows dEL, then press the knob once. The red dot at the lower right-hand corner of the display will disappear, indicating the memory has been cleared.

Display Codes

The LED display in the preset section gives feedback to all the user actions: Yes/No overwrite dialogs, save state memory, the current value of a rotating knob, which state is loaded or if a change has been made to the current active state.

1. Red Dot: Save-state is written - If a memory cell contains saved-state information, a small red dot appears in the lower right-hand corner of the LED display.
2. Pulsing Display: Save-state has been changed - If a save-state is loaded, then changed or altered in any way the memory cell number in the LED display will pulse. The entire display dims and brightens slowly as if breathing. This is to alert you that a change from the stored save-state has occurred.
3. Overwrite dialog: User interaction needed to confirm memory cell overwrite - occurs when you press and hold the PRESET knob for longer than 2 seconds, as described above in Storing Custom User States.
4. Absolute Value Display: Shows actual value on knob change - This is very useful when precisely setting levels. When you change any value on the Compressor, the absolute value will be momentarily displayed on the LED screen.

VI. D.A.W. Integration

The Bettermaker C502V can communicate with your DAW via USB connection. The units appear as a HID device and can be managed via a Plugin.

USB Programming and Features

Bettermaker C502V has a unique option, you can connect it to your DAW and use your host to controll the Compressor as you would controll a plugin. Please download the latest version of the plugin installer form our site http://www.bettermaker.eu/products/plugins/downloads/ and install it as you would install any other plugin. After that connect the Compressor with USB cable to your DAW The Bettermaker will appear in your host as a HID device and the plugin will recognize it right away. Everything you will set on the hardware will appear in the plugin and every change of the plugin will change the state of the Compressor. The current preset of the C502V will save every time you save the project in your D.A.W. So, you will never have to remember about saving it again. Just open your plugin, set the Bettermaker as you like and your done.
Using the plugin has another great plus, you can always be in the sweet spot and the Compressor can be in your rack out of reach. The plugin appears in your DAW as a audio effect plugin (although it does not pass any audio). You can open it as an insert or anywhere in your Host (on buss for example. We recommend keeping the plugin on the track that you are currently editing so it will be clear for you which track is affected. Notice that the plugin only sends and receives parameter changes of the Compressor, it does not affect the sound; you need to insert your analog C502V physically via your soundcard. The plugin will connect automatically with the compressor as soon as the plug is switched on.
The Bettermaker plugin has its own memory management, that gives us the possibility to exchange our favorite presets as files between different hosts and implement them to different Compressors. You can also use your host memory to save presets but then you are restricted to using them within 1 host. With our memory bank you can use the saved presets with every host and even move them form D.A.W. to D.A.W.

Computer automation

Now that you know how to operate the plugin, you can go even further. Bettermaker C502V offers full plugin automation, you can edit any parameter on timeline and your comp will follow! This is a great function for mastering (changing presets between the songs for example) and mixing (like lowering the tresholod on the quaiet parts a rasing it on louder to avoid overcompression).

USB note:
We advise to use cables that are shorter then 3m. If you want to use a longer cable, (to put the unit in a rack further away) please be sure to use a USB repeater.
Active (powered) USB hubs are also advised.

Unit Address:
You can select a unit to integrate a specific unit with a specific plugin.
This serves two purposes:
1. You can use multiple Bettermaker units with one host and use them in one project where every unit will have its own selected plugin. This way you can, for example, have a 10 slot 500 rack filled with 5 Bettermaker products and have 10 channels of analog processing controlled with plugins!
2. You can open many plugins in one project and use The Bettermaker recall to process consecutive stem channels.
Notice that when you connect the USB to your DAW and Bettemaker the display will change and show the current Address. To access the Address selection push both Channel button and the Preset selection encoder. Push and hold the Channel button first and then immediately the Preset selection encoder holding still the Channel button. The display will flash and you will be able to choose channels between 0 and 15...yes you can hook up 15 Bettermakers of one kind to one host, that means 30 channels of analog compression in 3 different modes to choose form...and we wish you will. To approve your choice simply push the Preset selection encoder as a button. Address 0 means the unit will "listen" to all midi automation.

VII. Bettermaker C502V cotrol overview

We've put a large amount of time, effort, money, and listening tests into the research and development of the analog stages of the Bettermaker C502V. We feel that it represents one of the best values, highest fidelity, and newest methods of working available in audio today. We set out to make a product that broke new ground, a compressor with the highest sonic quality, ease of use, and a full pallet of sound shaping tools to allow engineers to make the best-sounding record. In the following pages, we'll share this knowledge, show how the controls work and interact to provide a complete sound-sculpting system.

Treshhold

C502V will reduce the level of an audio signal if its amplitude will exceede a certain *threshold*. It is commonly set in decibels dB, where a lower threshold (e.g. -60 dB) means a larger portion of the signal will be treated (compared to a higher threshold of e.g. –5 dB).

Ratio

The amount of gain reduction is determined by **ratio**. Bettermaker C502V offers a ratio of 1,5, 2:1, 4:1. 6:1 and 1:2. a ratio of 4:1 means that if input level is 4 dB over the threshold, the output signal level after compresion will be 1 dB over the threshold and that the gain has been reduced by 3 dB. Ratio of 1:2 gives us a unique function of expading (rising) the level. For exaple of the input level will go 2 dB over the treshold the output siglan of the compreesor will be 4 dB. This is a great option for trianseint designing, rebuilding transinets in over compressed material and getting a some sort effenct of a gate.

Attack and release

Important: Please read about the C502V modes to deeply understand the compressors behaviour of atack and release in different modes.
Attack and release are located at the same knob. By defoult the knob is set on Attack. When you push it, just like a button, it will turn on to release and a red led will light up just under it on the left. To go back to Attack mode, just push it again.
Setting the Attack is actualy setting the 'attack' period when the compressor is decreasing gain to reach the level that is determined by the ratio. Setting the release is setting the 'release' period when the compressor is increasing gain to the level determined by the ratio, or, to zero dB, once the level has fallen below the threshold.

The length of each period is determined by the rate of change and the required change in gain. For more intuitive operation, a compressor's attack and release controls are labeled as milliseconds. This is the amount of time it will take for the gain to change a set amount of dB.

The release has also an "Auto Realease" mode that predicts the amout of realse that might be needed for the material. Try to experiment with the auto release and with manual relase as sometimes the manual setting can give the special effect that you will be looking for.

Dry/Wet knob

The Dry/Wet knob allows you to mix between the compressed signal and the original. Thanks to that you can use higher compression rates and mix back the original signal to keep it more natural. This is actually the secret to New Your style compression.

Makeup gain knob/Solo Button

Because the compressor is reducing the gain (or level) of the signal, you can ad additional gian at the output of the compressor. The Make up gain knob serves also as a solo button in Unlink mode. Wether you are in dual mono or M/S mode you can audtition channel 1(or M) or channel 2 (or S).

MODES

One of the most special thigs about C502V is the option to select a mod of the compressor. This means that by changing the Mode you change the whole character of the compressor as If you would just change to another hardware. What's more is that you can choose a different mode for every channel and even choose a different mode for M and S signal.

BM

This is our original approach to compression. This mode is the smoothest one and has the widest parameter setting range of all. The attack in this mode ranges form 5 to 250 miliseconds and the release ranges from 0,01 to 0,8 seconds. This let's you use it as a fast, almost limiter type aggresive compressor or a slow, gentle leveler. The BM mode has also a Auto release mode for easy operation.

SG

This is a mode inspired by a famous buss compressor form a well known british console manufacturer. The character and all the settings are similar, but you get all additional options as Dry/Wet, sidechain or unlink. The Attack and Release are more flexible then in the original as you can set them flunetly oppsed to fixed points. The attack can be also set to twice the value of the original.

DX

The DX mode is inspired by one of the most famous studio "workhorses". This mode has a fixed attack and realase and the original had and the compression is the most aggressive of them all. Although is agressive, people ten to use it on everything form Vocals to Bass, Drums and Guitars.

M/S Button

The M/S button inserts in the compressor and M/S matrix that decodes the stereo signal to Mid and Side signal and spreads it to channel one and two. The matrix also codes the signal back, so on the output you recieve back a stereo signal. You can use this mode in linked or unlinked. If you will use it in linked mode, most of the times the compression will occour to the M signal so that the S signal will be uncompressed. This will result in a more open and wide Stereo image, but don't be fulled, since you are linked the M signal is compressed, so if you will use makeup gain, you will raise both, M and S signal the same amount wich will result in change of proportions. This is not bad, it's anoter way you can use our compressor, as a stereo imager!

Sidechain button

The sidechain button cycles between actually two functions, internal highpass sidechain and unique external sidechain via USB.

When you compress a bass heavy material for example bass heavy mixes or drum buss the bass energy can trigger the compressor very fast and make it work very aggesively. To make it work more natural and even on a wider spectrum you can set the sidechain filter on 60Hz or 120Hz depending on the needs. This will eneble a highpass filter only on the detection signal and will not affect the original signal.

Another unique function or the sidechain is the external sidechain that it's detection signal is drawn stright form your D.A.W. via USB. This means that you can use the copressor sidechain exactly as you would use a sidechain in any other plugin. Thanks to the external USB sidechain you can perform on the compressor many operationts as Deessing, Lookahead, Sidechain "pumping" effect or ducking.

The external sidechain will only work when the compressor is connected via USB to your D.A.W. As long as the C502V will be not connected the fnction will be not avaliable.

EXAMPLE 1: Kick pump

1) Feed though the C502V via external I/O the track or bus you would like to have the effect on.

2) Open the compressor plugin on that channel with the compressor connected via USB

3) In the sidechain window pick your Kick (Bass Drum) track

4) Select Bettemaker mode and set the attack to the fastest position and a high ratio (6:1 for exapmle)

5) Now, work with combination of Treshold and release to acheve the desired pumping effect.

Example 2: Deesser

1) Feed though the compressor via external I/O the track (possibly vocal) or bus you would like to have the effect on.

2) Open the compressor plugin on that channel with the compressor connected via USB

3) Make a copy of your track and open an EQ plugin on it

4) Use Highpass and Lowpass filters on the duplicated track to narrow down the frequency renage you would like to supress (Deess).

5) in the sidechain window pick your copied track

6) Select Bettemaker mode and set the attack to the fastest position and a high ratio (6:1 for exapmle)

7) Now use the combination of treshold and release to acheve the right amunt of Deesing.

Look-ahead (plugin function)

This is a unique function of C502V. As you can set Lookahead in some plugin compressors. This is the first and only analog compressor that has this function. Take notice that the function can be only used form the plugin panel and when the compressor is connected via USB to the D.A.W. The look-ahead function is designed to overcome the problem of being forced to compromise between slow attack rates that produce smooth-sounding gain changes, and fast attack rates capable of catching transients. This is will work perfectly in every D.A.W. offering plugin delay compensation.

 Always use your ears! Listen, and not just look at the numbers. If something sounds good… it **IS** good.

VIII. Product Specifications

Operating Level +4dBu

Maximum Input +22 dBu
Maximum Output +22 dBu (THD <1%)
Max Gain Reduction 25dB
Ratios: 1.5, 2, 4, 6:1 + expander 1:2
Makeup Gain -10dB/+20dB
Attack Time 0.1 – 250ms (mode dependent)
Release Time 0.01 – 1,3s + auto (mode dependent)
Sidechain Filter OFF, 60Hz, 120Hz, External
Input impedance 10kohm + 10kohm (for balanced signal)
Output Impedance 75ohm + 75ohm (Quasi-floating balanced output)
Frequency response 5Hz to 20kHz; +/- 0.1dB
Dynamic Range = 121 dB @ +18 dBu, 20 kHz BW
THD+N <0.01%, +4 dBu, 20-20 kHz, unity gain, 20 kHz BW
CMRR = 70 dB @ 1 kHz
Crosstalk = -91 dB, 20-20kHz, +18 dBu, channel-to-channel
Maximum power consumption 8W (250mA@+16V, [250mA@-16V](#) for both slots)
Shipping weight 1,3kg
Dimensions H 13,3cm x W 7.6 cm x D 15,8cm

XI. Contact info / RMA warranty

In case of failure, please contact Addicted to Music for RMA information to have your unit repaired under
warranty.
Addicted To Music Bettermaker C502V
Phone: +48 604 649 220
Email: info@bettermaker.eu
Web: www.bettermaker.eu

Warranty:

Addicted to Music warrants to the purchaser of a new Bettermaker C502V that the unit is free from manufacturing defects in materials and workmanship for a period of one (1) year from the original date of purchase. Addicted to Music's sole obligation under this warranty shall be to provide, without charge, parts and labor necessary to remedy defects, if any, which appear within one (1) year from the original date of purchase. All warranties expressed or implied by Addicted to Music, including warranties of merchantability and fitness, are limited to the period of this warranty. Addicted to Music is not responsible for indirect, incidental or consequentialdamages arising from the use or failure of this product, including injury to persons or property. This warranty does not cover damage due to: misuse, abuse, modification, accident, or negligence. The warranty does not apply if the unit is connected, installed or used otherwise than in accordance with the instructions furnished by Addicted to Music. If the equipment requires warranty repair, return authorization must be obtained from Addicted to Music prior to shipment. Equipment should not be shipped until return authorization and proper shipping address is obtained from Addicted to Music. The equipment (with all its component parts and connecting cables) must be suitably packaged, including a note with the registered owners name, return address, telephone number, and description of the reason for return. The owner is responsible for all shipping charges, and it is suggested that the shipment be insured for its full value.
This limited warranty is in lieu of all other warranties, expressed or implied, and no representative or person is authorized to represent or assume for Addicted to Music any liability in connection with the sale of our products than set forth herein.
We hope you enjoy your new Bettermaker C502V! If you have any thoughts, ideas, concerns, notions, or brilliant revelations you would like to share about our products, please bring them to our attention at info@bettermaker.eu.

Happy Better Making!