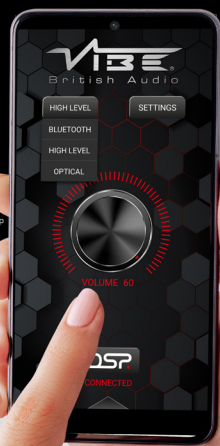




British Audio



## POWERBOX65.4-8 Micro DSP

- POWERBOX65.4-8MDSP-V3



**Power box**  
**DSP.**  
DIGITAL SIGNAL PROCESSOR

# Owners Manual

Congratulations on purchasing your VIBE amplifier. Please read this manual in order to fully understand how to get the best results from this product and ensure that all advice on how to look after the product is followed.

Thank you for buying VIBE, we hope you enjoy listening to your product as much as we enjoyed creating it.

## Attention



An aftermarket audio amplifier will place an additional load on the vehicles charging system.

Most modern vehicles have sufficient capacity in the charging system as not all the electrical components of the vehicle will be switched on at once.

Check the fuse rating of the amplifier and use this as the peak current requirement.

Generally the continuous current draw will be a third of the peak current.

## Warning

During the normal use of this amplifier the heatsink may become very hot.

Please do not touch during or immediately after use.

Please ensure that when installing this product the heatsink will not come into contact with any materials that may be damaged by heat such as upholstery or plastics.

## UK Technical Enquiries

**Call 09067031420**

Calls cost 50p per minute. Call costs correct at date of publication (01/02/12)

Hours of business 9.00am - 5.30pm GMT Monday - Friday.

All calls are recorded for training purposes.

MIDBASS Distribution

PO Box 11000

B75 7WG

## International Technical Enquiries

For international technical support please contact the distribution agent for your country.

Please visit **[www.vibeaudio.co.uk/contact](http://www.vibeaudio.co.uk/contact)** for more details.

## Limited Warranty

All VIBE products carry a full 12 month warranty, valid from the date of the original receipt and proof of purchase. The online warranty card should be completed within seven days of the original purchase date. The original receipt and packaging should be retained for this twelve month period. If the product develops a problem any stage during the warranty period, it should be returned to the point of purchase in its original packaging, and complete with no items missing. If the store is unable to repair the product it may have to be returned to VIBE.

A full description of VIBE's warranty information can be found on our website:

**[www.vibeaudio.co.uk](http://www.vibeaudio.co.uk)**

## What Is Not Covered

- Damage to product due to improper installation.
- Subsequent damage to other components.
- Damage caused by exposure to moisture, excessive heat, chemical cleaners and / or UV radiation.
- Damage through negligence, misuse, accident or abuse. Repeated returns for the same fault may be considered abuse.
- Any cost or expense related to the removal and / or re-installation of the product.
- Damage caused by amplifier clipping or distortion.
- Items repaired or modified by any unauthorised repair facility.
- Return shipping on non defective items.
- Products returned without a returns authorisation number.
- Damage to product due to use of sealant.

## International Warranty

Contact your international VIBE dealer or distributor concerning specific procedure for your country's warranty policies. [www.vibeaudio.co.uk/warranty](http://www.vibeaudio.co.uk/warranty)

## Warning

VIBE equipment is capable of sound pressure levels that can cause permanent damage to your hearing and those around you. Please use common sense when listening to your audio system and practice safe sound.

## Copyright

All content included in this manual such as text, graphics, logos, icons, images and data, are the property of Midbass Distribution Limited t/a VIBE Technologies Limited (herein referred to as "VIBE", "us" or "we") and its affiliate or their content and technology providers, and are protected by United Kingdom and International copyright laws. All rights reserved. VIBE TV, VIBE Arcade, Bass Box, Optisound, Cinesound, BlackAir, BlackBox, Space, LiteAir, SLICK, BlackDeath, Bubonic, Reaper, Anti-VIBE, FastPlug, BlackHole, QB69, VIBE Turbo Port, Vibe TurboVent, Pressure Board, Super Driver, VIBE Pulse, VIBE Power, VIBE Digital, VIBE MAG Plugs, Ferrite Loaded, VIBE Solid Core, VIBE OCC, VIBE FLAT, ICC, Bass Enhance, Bass Enhance+, QBass, SpeedBass, PowerBass, N-Wedge, Box Grip, ARBSS, Supercar Series and all stylised representations of product names, or the abbreviations of product names, as logos are all trademarks of VIBE. Graphics and logos are trademarks or trade dress of VIBE Technologies Ltd or its subsidiaries. VIBE's trademarks and trade dress may not be used in connection with any product or service that is not VIBE's, in any manner that is likely to cause confusion among customers or in any manner that disparages or discredits VIBE. All other trademarks not owned by VIBE or its subsidiaries that appear in this manual are the property of their respective owners, who may or may not be affiliated with, connected to, or sponsored by VIBE or its subsidiaries.

TO THE FULLEST EXTENT PERMITTED AT LAW, VIBE IS PROVIDING THIS MANUAL AND ITS CONTENT ON AN "AS IS" BASIS AND MAKES NO (AND EXPRESSLY DISCLAIMS ALL) REPRESENTATIONS OR WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, WITH RESPECT TO THIS MANUAL OR THE INFORMATION, CONTENT, MATERIALS OR PRODUCTS INCLUDED IN THIS MANUAL INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN ADDITION, VIBE DOES NOT REPRESENT OR WARRANT THAT THE INFORMATION CONTAINED IN THIS MANUAL IS COMPLETE OR CURRENT, AND THAT ALL SPECIFICATIONS AND INFORMATION CONTAINED WITHIN THIS MANUAL ARE SUBJECT TO CHANGE WITHOUT NOTICE. VIBE RECOMMENDS CAUTION WHEN LISTENING TO MUSIC REPRODUCED THROUGH VIBE EQUIPMENT. VIBE EQUIPMENT IS CAPABLE OF PRODUCING SOUND AND SOUND PRESSURE LEVELS THAT CAN PERMANENTLY DAMAGE HEARING OF YOU AND THAT OF OTHERS. FOR SAFE AND ENJOYABLE LISTENING, THE SOUND SHOULD BE CLEAR WITHOUT DISTORTION AT A COMFORTABLE VOLUME. BY USING ANY VIBE EQUIPMENT, YOU AGREE TO TAKE FULL RESPONSIBILITY FOR YOUR OWN SAFETY AND THE SAFETY OF OTHERS WHEN LISTENING TO MUSIC AT HIGH VOLUMES THROUGH EQUIPMENT YOU HAVE PURCHASED. USE OF ANY VIBE EQUIPMENT CONSTITUTES AGREEMENT TO THIS DISCLAIMER. Except as specifically stated in this manual, to the fullest extent permitted at law, neither VIBE nor any of its affiliates, directors, employees or other representatives will be liable for damages arising out of or in connection with the use of this manual or the information, content, materials or products included. This is a comprehensive limitation of liability that applies to all damages of any kind, including (without limitation) compensatory, direct, indirect or consequential damages, loss of data, income or profit, loss of or damage to property and claims of third parties. For the avoidance of doubt, VIBE does not limit its liability for death or personal injury to the extent only that it arises as a result of negligence of VIBE, its affiliates, directors, employees or other representatives.

## Mounting Guidelines

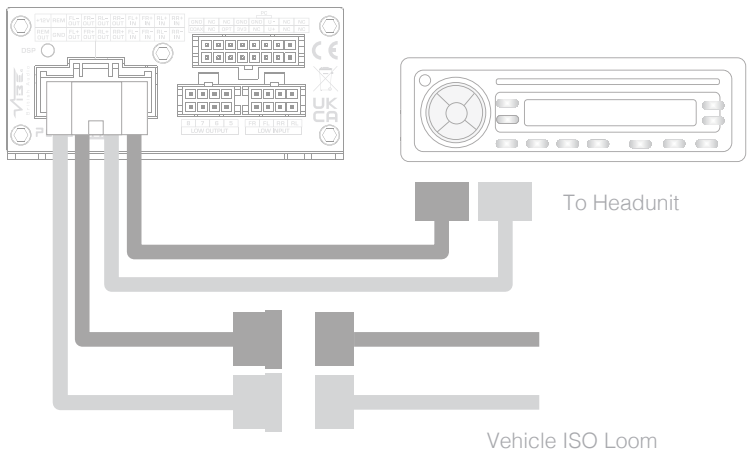
Your VIBE amplifier is designed with a swift installation routine in mind.

Please mount the amplifier in a dry location on a solid surface.

NEVER mount the amplifier upside down as this will cause the amplifier to over heat and will eventually damage the amplifier.

Before fixing the amplifier in place please ensure that there is sufficient air flow around the exterior of the casing, at least two inches is sufficient to allow effective cooling.

## Power / Speaker Connections



**NOTE :** If your vehicle does not have a standard ISO connector (for example a quadlock connector) it will be necessary to purchase a separate vehicle specific T-Harness connector

Contact your local VIBE dealer for more information.

## Power Cable

- If not using the vehicles ISO cable, at least 12 gauge cable should be used for the power connection to the amplifier. VIBE recommends the RAPID FIT™ wiring kit which is available in 2.5m and 5m variants.
- The power cable should be taken directly from the battery. Rubber grommets should be used when passing through any bulkheads to prevent the cable from becoming chaffed or cut.
- It is vital that a fuse / circuit breaker (of at least equal value to the one fitted in the amplifier) is placed inline with the power cable and is no further than 18 inches away from the battery.
- Please ensure that the fuse is not fitted until the entire installation procedure is complete.

## Ground Cable

- If not using the vehicles ISO cable, at least 12 gauge cable should be used for the ground connection to the amplifier.
- The amplifier ground should be connected directly to the chassis of the vehicle, to bare metal.
- The cable length should be kept to an absolute minimum.
- It is not recommended that you connect the ground cable to the vehicles seatbelts anchor point.

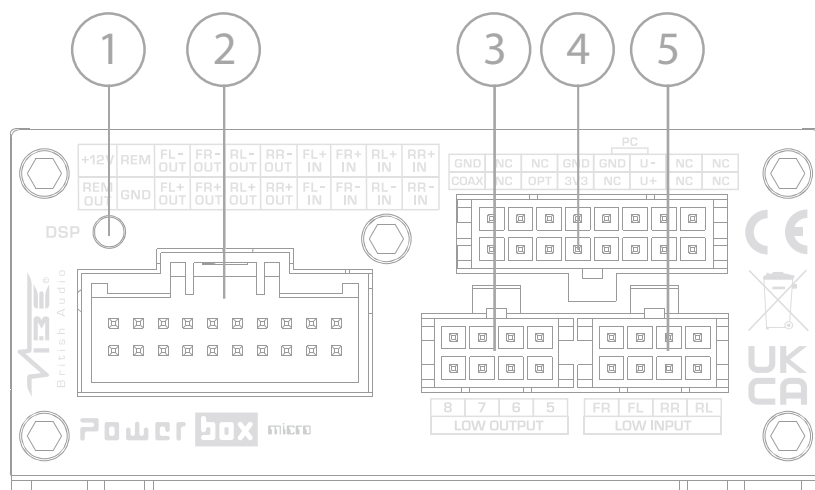
## Auto Turn On (High level Input Only)

- The PowerBox amplifiers feature an auto turn on circuit called Autosense.
- This circuit allows the amplifier to switch on and off without a remote turn on wire when using high level input, for low level input (RCA) it will still be necessary to connect the remote turn on wire from the headunit.
- When the connected source (headunit) is turned on the amplifier will turn on automatically, after the connected source (headunit) is turned off the amplifier will shut down.

## RCA Cables

- Depending on the model of your headunit and the number of speakers you wish to power you will have to run either one, two or three RCA cables from the source to the amplifier.
- Please take extra care when running these cables from the source to the amplifier. Ensure that they are placed away from all items that can generate any interference, wiring harnesses etc.
- It is recommended that the RCA cables should be run on opposite sides of the car to the previously installed power cables if possible, to avoid the cable picking up interference.

## Terminals And Connections



### 1. Power LED

If the amplifier is operating normally, the LED will illuminate.

### 2. Power / speaker terminals

Used to connect DC power and speaker input / output cables to the amplifier. See the wiring configuration section for more details.

### 3. Low level output

RCA output provides an output can be used to connect an additional amplifier or audio device and are controlled by channels 5-8 of the DSP processor.

### 4. USB / digital connector

Used to connect optical digital input, coaxial digital input and PC app connection.

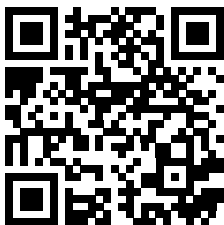
**NOTE : Requires optional adaptor POWERBOX65.4-8MDSP-USB**, please visit [www.vibeaudio.co.uk](http://www.vibeaudio.co.uk) for more details.

### 5. Low level input

For connection to any source (head unit) with a low level output to the front / rear channels of the amplifier. This is your RCA output from the source (headunit).

## Set Up Section

The POWERBOX65.4-8MDSP-V3 is designed to be set up with a smartphone app, please ensure that you download the appropriate app for your smartphone's operating system.



Download on the  
**App Store**



GET IT ON  
**Google Play**

## Specification

Model	POWERBOX65.4-8MDSP-V3
Configuration	4 channel
Dimensions (H x W x D)	1.5" x 7.4" x 3.2" (37mm x 187mm x 82mm)
RMS @ 4 $\Omega$ Stereo	4 x 65 watts
RMS @ 2 $\Omega$ Stereo	N/A
RMS @ 4 $\Omega$ Mono	N/A
Maximum Power	520 watts
Recommended Fuse	20 Amps
Frequency Response	20Hz - 20kHz
Crossover Type	HP / LP / BP / Full
Crossover Range	20Hz - 20kHz
Topology	Class D



# Power box DSP.

DIGITAL SIGNAL PROCESSOR

Designed and engineered in England



[www.vibeaudio.co.uk](http://www.vibeaudio.co.uk)



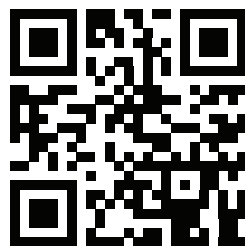
[www.youtube.com/vibeaudio](http://www.youtube.com/vibeaudio)



[www.facebook.com/vibeaudio](http://www.facebook.com/vibeaudio)



[www.twitter.com/vibecaraudio](http://www.twitter.com/vibecaraudio)





## POWERBOX MICRO DSP AMPLIFIER

### Digital • Signal • Processing

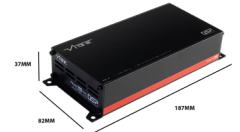
Experience the ultimate versatility of the POWERBOX65.4MDSP – a remarkable upgrade to the already exceptional POWERBOX65.4M. Harnessing the power of a robust DSP (digital signal processor), this cutting-edge system builder sets a new standard in the industry.

With a wide range of inputs including Optical, High-level, and Bluetooth, the POWERBOX65.4MDSP effortlessly transforms most non-amplified systems into a Bluetooth receiver, enabling seamless wireless music streaming while you're on the go.

Take full command of your audio experience through our intuitive smart-phone app. Unlock a myriad of settings such as gain control, crossover configuration, time alignment, a 31-band parametric EQ, and an array of other functions, providing you with complete control over every aspect of your sound.

Enhanced by an integrated mixer, the POWERBOX65.4MDSP intelligently combines input signals and seamlessly distributes them to your desired channels. This feature is especially ideal for setups with four speakers, optimizing audio quality even when only a stereo input is available.

Step into the digital frontier, where the future shines brightly. Embrace the POWERBOX65.4MDSP and embrace a new era of exceptional audio.



Model	POWERBOX65.4-8MDSP-V3
Configuration	4 channel + 4 Channel Pre Out
Dimensions (H x W x D)	1.5" x 7.4" x 3.2" (37mm x 187mm x 82mm)
RMS @ 4Ω Stereo	4 x 65 watts
RMS @ 2Ω Stereo	N/A
RMS @ 4Ω Mono	N/A
Maximum Power	520 watts
Frequency Response	20Hz - 20kHz
Crossover Type	HP / Full
Crossover Range	50Hz
Topology	Micro Class D

**PERFECT FIT** - Experience unparalleled sound enhancement with the POWERBOX DSP micro amplifier, designed with a plug-and-play style fitment that seamlessly integrates into any scenario, whether it's OEM or aftermarket installations.

**LOADED WITH FEATURES** - Our latest Powerbox amplifier is packed with an impressive array of features, including a powerful DSP, signal output capabilities, remote output functionality, auto turn-on feature, complete setup and control through a user-friendly app, and even the ability to wirelessly stream music directly to the amplifier.

**UNRIVALLED POWER** - Boasting an impressive 65 watts RMS per channel, the POWERBOX65.4 DSP stands as the most powerful plug-and-play amplifier available in the market. Prepare yourself for an extraordinary audio experience.

**EFFORTLESS USAGE** - Our in-house designed app makes utilizing the DSP features a breeze. It offers an intuitive and user-friendly interface, ensuring effortless operation to achieve optimal results from your audio upgrade.



#### AUTO SENSE

For easy integration we have included auto-sense turn on, this means for OEM installations there is no need to find a remote turn on signal when installing into any vehicle.



#### RCA OUTPUT

The new Powerbox DSP amplifier features 4 RCA outputs each with full DSP control from the built in 8 channel DSP chip.



#### HIGH LEVEL INPUT

When installing into an OEM headunit Our DSP amplifier has high level input, meaning this box can be installed easily without an aftermarket head-unit



#### REMOTE OUTPUT

The Powerbox Micro DSP amplifier also features a remote output trigger feed, this will allow the turn on of another amplifier in your system such as a Powerbox400.1m



#### DSP APP

Brand new DSP app for total system control which is available on both Android and IOS. EQ, Time alignment, Crossovers, level adjustment and much more.



#### MICRO SIZE

Based on the footprint of the original Powerbox65.4m the New DSP model is super small and compact and can be installed and fit in locations many standard amplifiers cant.



# DOWNLOADS



PHOTO'S

## POWERBOX DSP APPLICATION

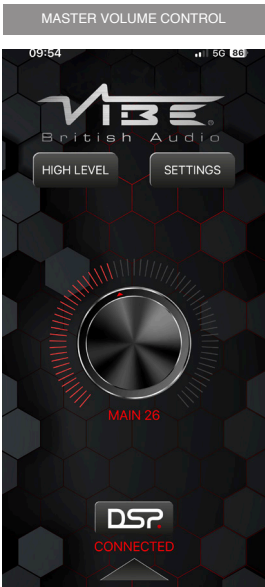
Digital • Signal • Processing



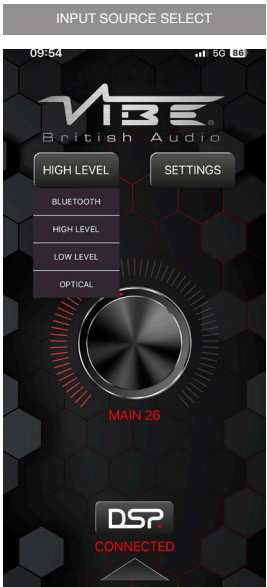
Available to download on both IOS and Android VIBE introduces our brand new in house developed DSP app for mobile devices.

The app gives you full control of your amplifier right from the palm of your hand allowing the adjustment and set up of all areas of your system.

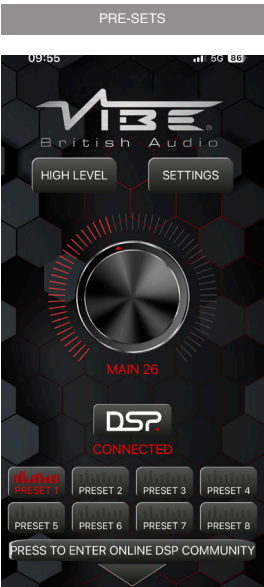
Below details all the functions of the DSP app.



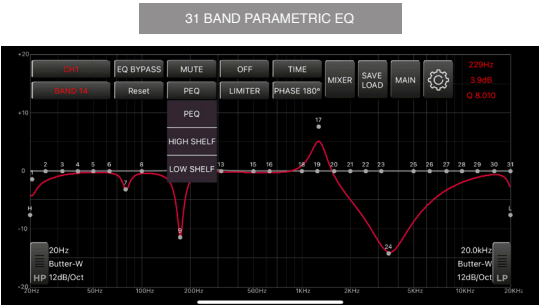
Controls the master volume for all channels from the home page of the DSP amps



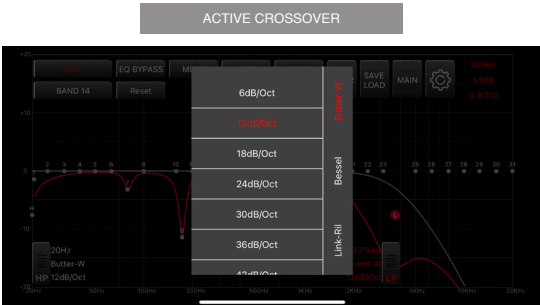
Select the input source from the DSP amp. Choose from high level, BT, Low level and optical



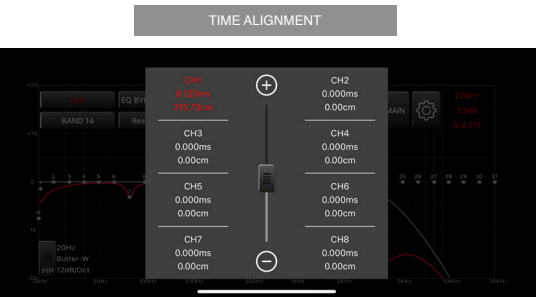
Create multiple presets for different users and store them in 6 available preset blanks



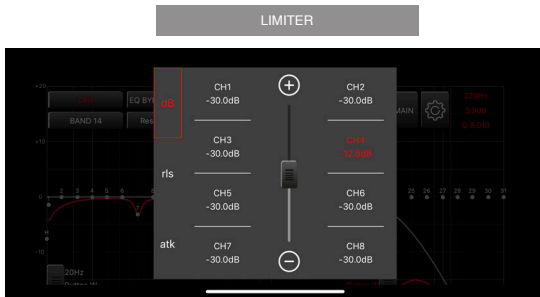
31 Band equaliser adjustable with your fingertips, gestures allow full control over both frequency and Q factors



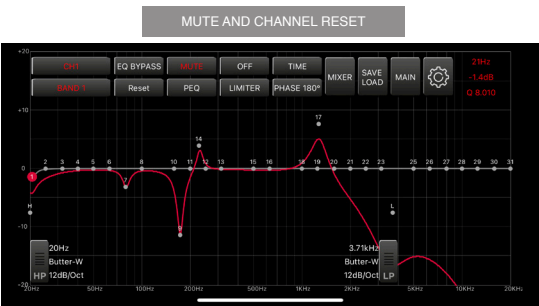
Active crossover allows HPF(high pass filter), LPF (low pass filter) and BPF (band pass filter) with the full 20Hz-20Khz available to all bands. The crossover slope is also variable between 6dB and 48dB Octaves.



Time alignment allows each individual channel to be adjusted independently in either time (ms) or distance (cm)



Audio limited is similar to a compressor and allows the user to keep the signal for each channel consistent. Limit level (dB) attack (ATK) and Releaser (RLS) are all adjustable for each individual channel.



Mute individual channels for ease of setup and reset buttons of you need to return to default settings.



Mixer allows any input channel to be mapped to any output channel. Especially useful when you need the full 10 channel output from a stereo source such as a phone.