



# MIDAS PARAMETRIC EQ 512 V2 500 Series 4 Band Fully Parametric Equaliser User Guide

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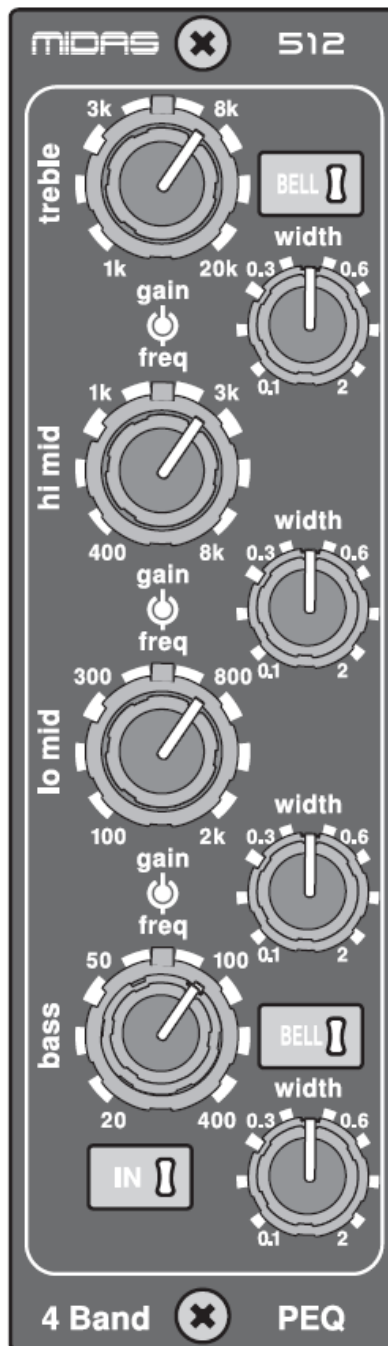
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**MIDAS PARAMETRIC EQ 512 V2 500 Series 4 Band Fully Parametric Equaliser**



## Important Safety Instructions

### Caution:

Terminals marked with this symbol carry an electrical current of sufficient magnitude to constitute a risk of electric shock. Use only high-quality professional speaker cables with 1/4" TS or twist-locking plugs pre-installed. All other installations or modifications should be performed only by qualified personnel. This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure – voltage that may be sufficient to constitute a risk of shock. This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual. To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user serviceable parts inside. Refer servicing to qualified personnel. To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus. These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions. Repairs have to be performed by qualified service personnel.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for the replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Use only attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as a power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.
16. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
17. Correct disposal of this product: This symbol indicates that this product must not be disposed of with household waste, according to the WEEE Directive (2012/19/EU) and your national law. This product should be taken to a collection center licensed for the recycling of waste electrical and electronic equipment (EEE). The mishandling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the efficient use of natural resources. For more information about where you can take your waste equipment for recycling, please contact your local city office, or your household waste collection service.
18. Do not install in a confined space, such as a book case or similar unit.
19. Do not place naked flame sources, such as lighted candles, on the apparatus.
20. Please keep the environmental aspects of battery disposal in mind. Batteries must be disposed of at a battery collection point.
21. This apparatus may be used in tropical and moderate climates up to 45°C.

## **LEGAL DISCLAIMER**

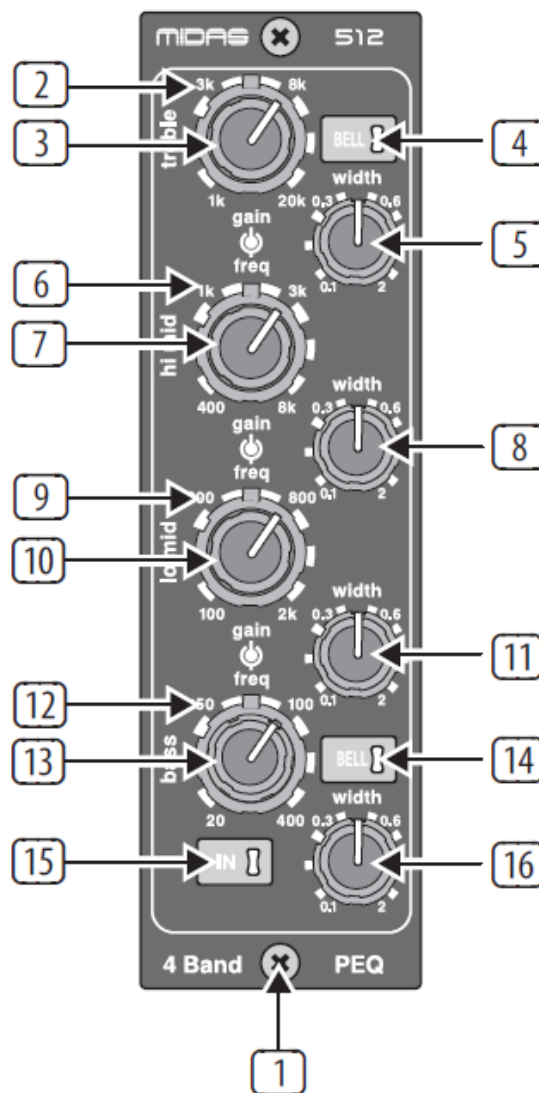
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## LIMITED WARRANTY

For the applicable warranty terms and conditions and additional information regarding Music Tribe's Limited Warranty, please see complete details online at the community. [musictribe.com/pages/support#warranty](https://musictribe.com/pages/support#warranty)

## 500 SERIES PARAMETRIC EQUALISER 512 Controls

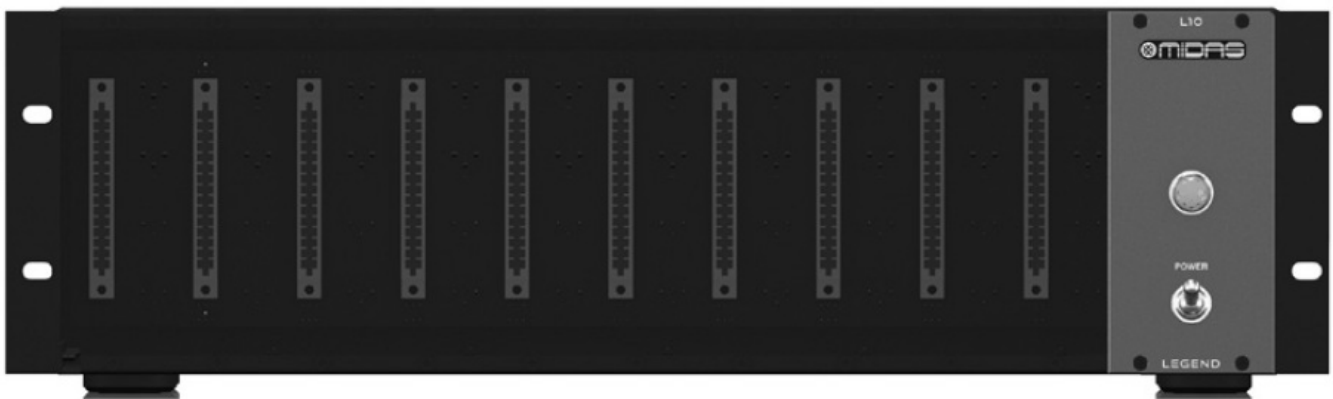


1. Mounting holes – The 512 module is mounted to the host 500 series rack chassis or box such as the Midas Legend L6 or L10, and secured using two screws top and bottom.
2. Treble frequency control – This control (outer knob) gives continuous adjustment of the frequency range from 1 kHz to 20 kHz.
3. Treble gain – This control (inner knob) gives continuous adjustment of treble cut and boost from -15 dB to +15 dB with a 0 dB center detent.
4. BELL switch – When this is selected, the treble equalizer curve changes from the traditional Midas shelving response to the fully parametric operation. The switch's green LED illuminates to show that the BELL mode is active.
5. Treble width control – This knob gives continuous control of the bandwidth from 0.1 to 2 octaves. It only

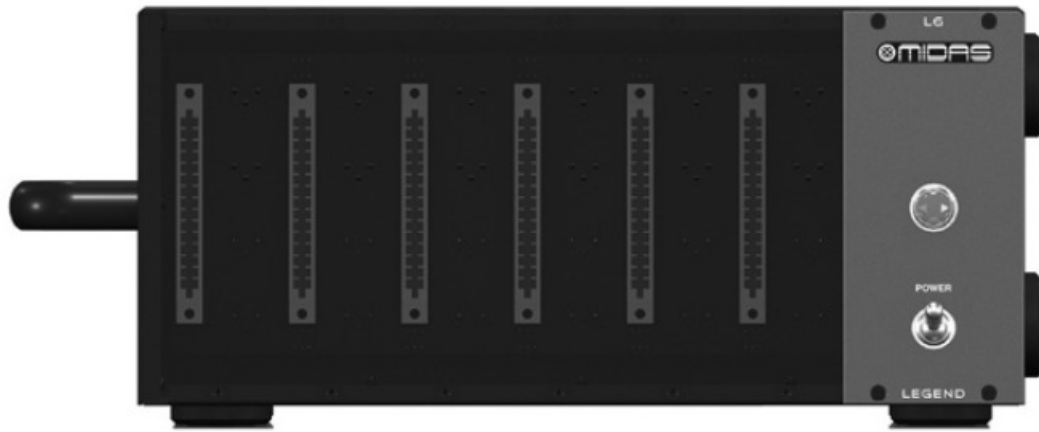
operates when the BELL switch is selected.

6. Hi, mid-frequency control – This control (outer knob) gives continuous adjustment of the frequency range from 400 Hz to 8 kHz.
7. Hi mid-gain – This control (inner knob) gives continuous adjustment of cut and boost from -15 dB to +15 dB with a 0 dB center detent.
8. Hi, mid-width control – This knob gives continuous control of the bandwidth from 0.1 to 2 octaves.
9. Lo mid-frequency control – This control (outer knob) gives continuous adjustment of the frequency range from 100 Hz to 2 kHz.
10. Lo mid-gain control – This control (inner knob) gives continuous adjustment of cut and boost from -15 dB to +15 dB with a 0 dB center detent.
11. Lo mid-width control – This knob gives continuous control of the bandwidth from 0.1 to 2 octaves.
12. Bass frequency control – This control (outer knob) gives continuous adjustment of the frequency range from 20 Hz to 400 Hz.
13. Bass gain control – This control (inner knob) gives continuous adjustment of cut and boost from -15 dB to +15 dB with a 0 dB center detent.
14. BELL switch – When this is selected, the bass equalizer curve changes from the traditional Midas shelving response to the fully parametric operation. The switch's red LED illuminates to show that the BELL mode is active.
15. Equalizer IN switch – This switch inserts the equalizer into the signal path. The switch's yellow LED illuminates to show that the equalizer is active. When the IN switch is deselected, all the circuitry is completely bypassed (true relay hardware bypass). True bypass mode also occurs if the 500 series rack is powered down, as the signal passes directly from the rack input XLR to the rack output XLR.
16. Bass width control – This knob gives continuous control of the bandwidth from 0.1 to 2 octaves. It only operates when the BELL switch is selected.

#### **Legend L10 500 Series Rackmount Chassis for 10 Modules**



#### **Legend L6 500 Series Rackmount Chassis for 6 Modules (supplied rack ear kit not shown)**



1. The 512 EQ module is designed to be mounted into a 500 series rack chassis or box, such as the Midas Legend L6 or L10. The L6/L10 supplies the input and output connections to the 512 modules, as well as internal power to run the module.
2. With the power to the L6/L10 turned off, install the 512 modules by sliding it in carefully so its rear connector correctly fits into the corresponding multi-pin connector of the L6/L10. Use 2 screws to secure the 512 modules to the front top and bottom rails.
3. Blank spaces in your L6 or L10 can be filled using the Midas L1B blank plates. These plates will prevent dirt, dust and other objects from entering
4. Insert any other modules in your system.
5. Connect your audio equipment to the input and output of the L6/L10.
6. Turn on the power to the L6/L10. The 512 modules is equipped with an internal power on/off mute relay. After power-up, there is a 2-second delay before the output is connected, to avoid power-on thumps. The relay also prevents power-off thumps by muting the output during power down.

## Specifications

## Controls

Treble	Dual freq/gain knobs, shelf/bell switch, width knob (bell mode)
Hi mid	Dual freq/gain knobs, width knob
Lo Mid	Dual freq/gain knobs, width knob
Bass	Dual freq/gain knobs, shelf/bell switch, width knob (bell mode)
EQ in	In/out switch

### Input and Output

Input	Mono, balanced line
Output	Mono, electronically balanced

### System

Noise at unity gain	-97 dBu (22 Hz – 22 kHz)
CMRR, unity gain, 1 kHz	-70 dB (typical)
Input impedance, 1 kHz	20 k $\Omega$
Frequency response, unity gain (EQ set flat)	20 Hz – 20 kHz, +/- 1 dB

0 dBu	<0.005%
+10 dBu	<0.005%
+20 dBu	<0.01%
Maximum input level, 1 kHz	+21 dBu
Maximum output level, 1 kHz	+21 dBu
Output impedance, 1 kHz	50 $\Omega$

Treble (shelf mode)
Treble (bell mode)
Hi mid (bell only)
Lo mid (bell only)

**Power Requirements**

Voltage	+16 V and -16 V
Power consumption	100 mA, 3.2 W

**Physical**

Dimensions (H x W x D)	132 x 38 x 184 mm (5.2 x 1.5 x 7.2")
Weight	0.7 kg (1.5 lbs)

**Module Connector Pin-Outs**

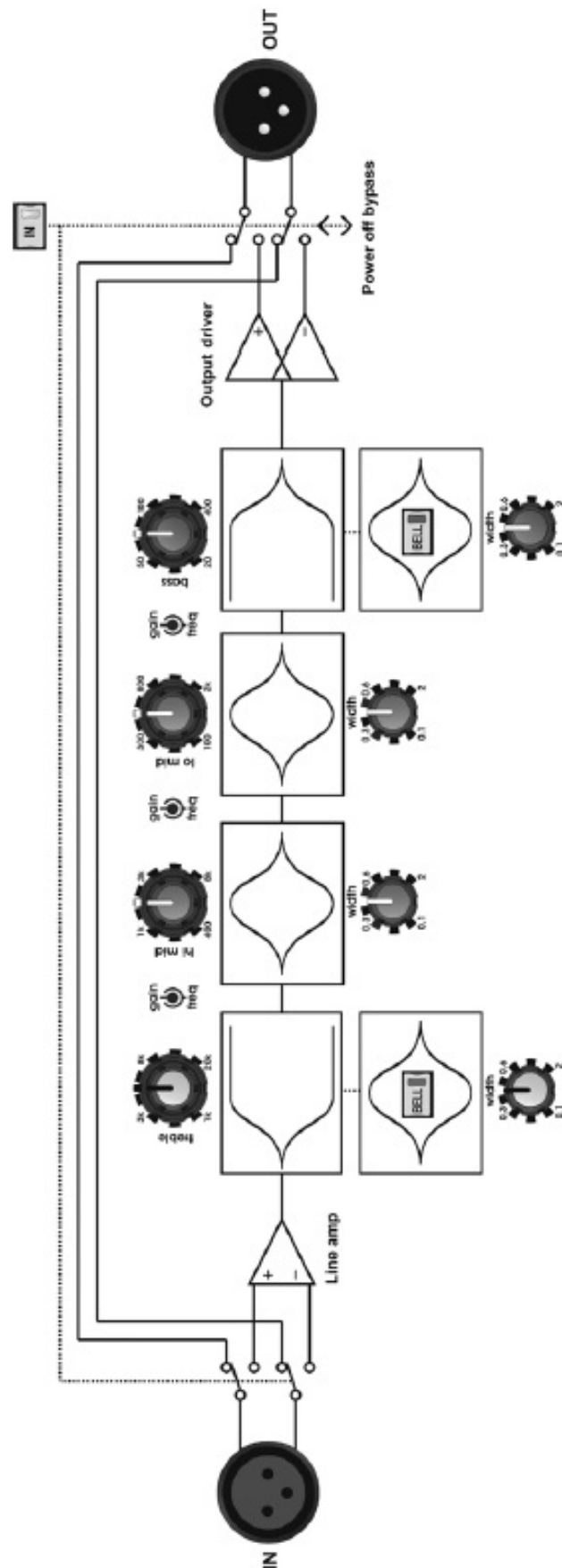
Pin Number	Description
1	Chassis GND

2	Output + (hot)
3	N/A
4	Output – (cold)
5	Audio GND
6	N/A
7	N/A
8	Input – (cold)
9	N/A
10	Input + (hot)
11	N/A
12	PSU +16 V
13	PSU GND (0 V)
14	PSU –16 V
15	N/A

## Notes

L6 and L10 rackmount chassis XLR connections are wired pin 1 = audio GND, pin 2 = + (hot), pin 3 – (cold)

## Block Diagram



## Other important information

1. Register online. Please register your new Music Tribe equipment right after you purchase it by visiting [musictribe.com](http://musictribe.com). Registering your purchase using our simple online form helps us to process your repair claims more quickly and efficiently. Also, read the terms and conditions of our warranty, if applicable.
2. Malfunction. Should your Music Tribe Authorized Reseller not be located in your vicinity, you may contact the Music Tribe Authorized Fulfiller for your country listed under “Support” at [musictribe.com](http://musictribe.com). Should your country not be listed, please check if your problem can be dealt with by our “Online Support” which may also be found under “Support” at [musictribe.com](http://musictribe.com). Alternatively, please submit an online warranty claim at [musictribe.com](http://musictribe.com) BEFORE returning the product.
3. Power Connections. Before plugging the unit into a power socket, please make sure you are using the correct mains voltage for your particular model. Faulty fuses must be replaced with fuses of the same type and rating without exception.

Hereby, Music Tribe declares that this product is in compliance with Directive 2014/35/EU, Directive 2014/30/EU, Directive 2011/65/EU and Amendment 2015/863/EU, Directive 2012/19/EU, Regulation 519/2012 REACH SVHC and Directive 1907/2006/EC.

Full text of EU DoC is available at <https://community.musictribe.com/>

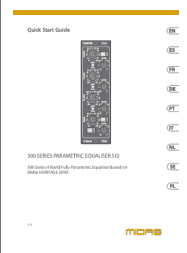
**EU Representative:** Music Tribe Brands DK A/S

**Address:** Gammel Strand 44, DK-1202 København K, Denmark





**UK Representative:** Music Tribe Brands UK Ltd.

**Address:** 6 Lloyds Avenue, Unit 4CL London EC3N 3AX, United Kingdom

## Documents / Resources

	<p><a href="#">MIDAS PARAMETRIC EQ 512 V2 500 Series 4 Band Fully Parametric Equaliser</a> [pdf] User Guide</p> <p>PARAMETRIC EQ 512 V2 500 Series 4 Band Fully Parametric Equaliser, PARAMETRIC EQ 512 V2, 500 Series 4 Band Fully Parametric Equaliser</p>
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## References

-  [Music Tribe](#)
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