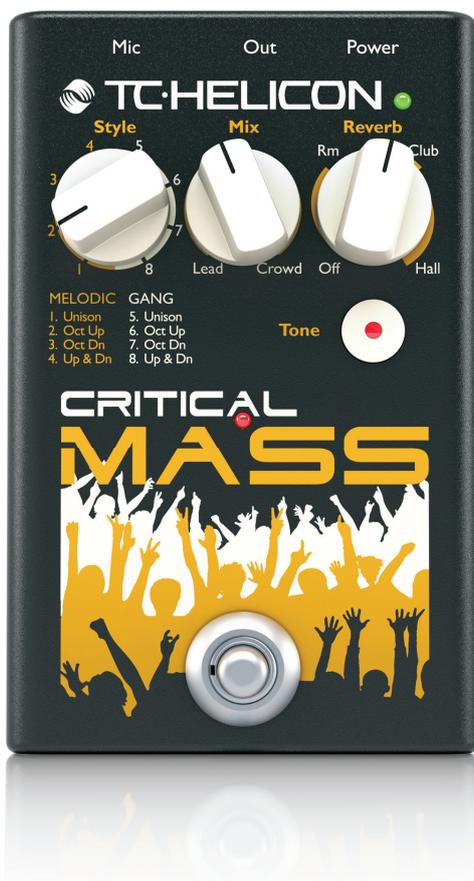




CRITICAL MASS

Studio-Quality Vocal Stompbox for Large Group-Sound Effects

User Manual



EN

EN Important Safety Instructions



Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock.

Use only high-quality professional speaker cables with ¼" TS or twist-locking plugs pre-installed. All other installation or modification 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.



Caution

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.



Caution

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.



Caution

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 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 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. Use this apparatus in tropical and/or moderate climates.

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LIMITED WARRANTY

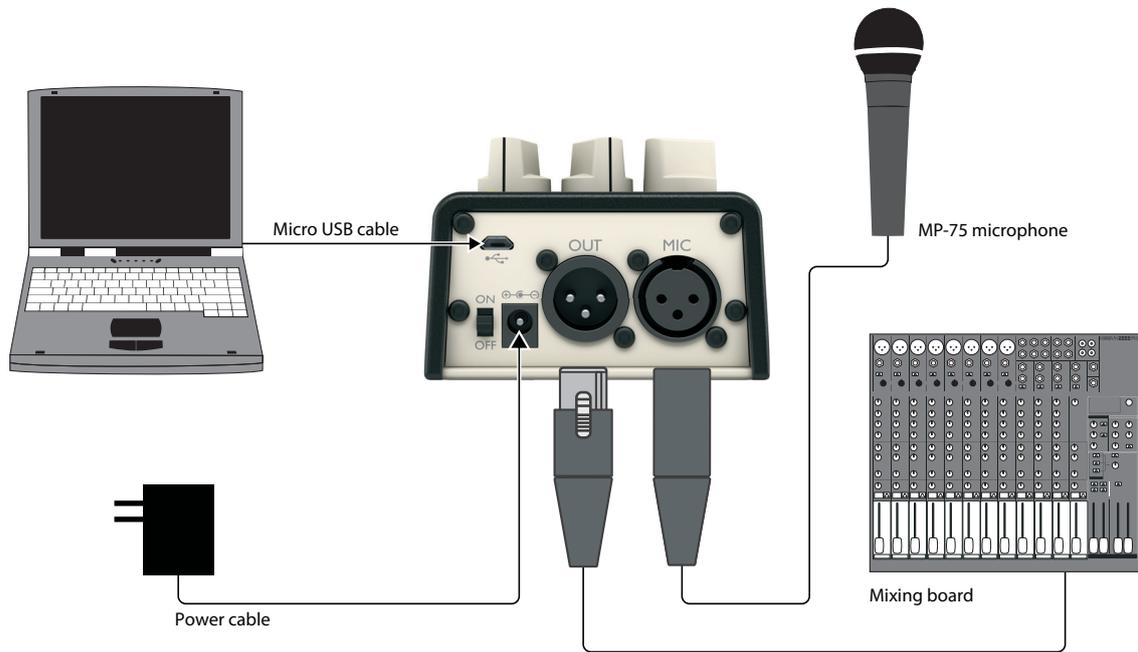
For the applicable warranty terms and conditions and additional information regarding MUSIC Group's Limited Warranty, please see complete details online at music-group.com/warranty.

1. Controls



- 1 **STYLE** knob selects the type of group vocal sound applied to your voice.
 - Melodic – simulates a large group singing along with you. Think “we will rock you”.
 - Gang - great for less note-based crowd sounds like “hey!”
 - The four styles include unison and doubled octave voices to fill out the higher and lower registers. Experiment with each one to find the right fit for your song.
- 2 **MIX** knob adjusts the blend between the group vocals and your lead voice.
- 3 **REVERB** knob selects the type and amount of reverb effect on your voice. The 3 types of reverb appear in order from the smallest space (Room) to the largest (Hall). Adjusting the knob within your preferred reverb space determines how pronounced the effect will be. Turning the knob fully counterclockwise turns the reverb off.
- 4 **BATTERY LED** indicates the battery level, with green showing full life, yellow being partial life, and red to alert that the batteries should be changed.
- 5 **TONE** button engages a preset combination of adaptive EQ, de-essing, compression and noise gate. “Normal” and “Less Bright” settings can be toggled by holding the Tone button and pressing the footswitch.
- 6 **ON/OFF LED** lights when the effect is engaged.
- 7 **FOOTSWITCH** bypasses the group effect with a single tap. Holding the switch down for a few seconds bypasses the group and reverb effects, allowing you to talk to the audience between songs. Tap the switch again to resume normal function reverb.
- 8 **USB** input accepts a micro USB cable for connection to a computer. Use the VoiceSupport application to install firmware updates, and for other features depending on your product. Download VoiceSupport from tc-helicon.com/products/voicesupport/
- 9 **ON/OFF** switch powers the pedal on and off.
- 10 **POWER** input accepts a 9V power cable (not included).
- 11 **OUT** jack accepts a balanced XLR cable for connection to a mixer or active speaker.
- 12 **MIC** input jack accepts a balanced XLR cable to connect your microphone.

EN 2. Operation



Connection

- Connect a microphone to the MIC jack
- Connect the OUT jack to a mixer, interface or active speaker
- Connect the power cable (not included)
- Connect a micro USB cable to a computer (optional)

Changing the Batteries

The Critical Mass can operate on 4 AA batteries. Remove the single screw on the bottom of the pedal to open the battery door. Make sure to observe correct polarity when inserting the batteries.

Auto Gain

Critical Mass will automatically adjust the gain setting for your microphone, eliminating the need for manual adjustments and ensuring that a good signal is passed to the mixer without any unwanted distortion.

24 V Phantom Power

Phantom power is always active on the Critical Mass. This will power condenser microphones, but will not affect dynamic mics.

Mic Control

Mic Control allows you to control the effect's on/off status via an MP-75 microphone. Press and hold the footswitch while powering up the unit to toggle Mic Control.

Note that when using a condenser microphone, Mic Control should be disabled to prevent unwanted on/off switching.

3. Specifications

Input Mic

Input Connector: XLR female, balanced

Input Impedance: 3k4/1k7 Ohm

Input Clip Sensitivity: -1 dBu

SNR A-weighted: >114 dB

Output

Output Connector: XLR male, impedance balanced,
pin 2 hot

Output Impedance: 200/100 Ohm

Output Full Scale Level: +7.5 dBu

Input to Output Freq Response: +0/-0.3 dB, 20 Hz to 20 kHz

Power

Power Supply: 9 V / 670 mA

Power Consumption: 6 W

Requirements

Operating Temperature: 32°F to 122°F (0°C to 50°C)

Storage Temperature: -22°F to 167°F (-30°C to 70°C)

Humidity Max.: 90 % non-condensing

Size & Weight

Dimensions: 5.4" x 3.5" x 2.3" (140 x 90 x 60 mm) Weight: 0.92 lb. (420 g)

Warranty

See tc-helicon.com/support for warranty information

Due to continuous development, these specifications are subject to change without notice.

