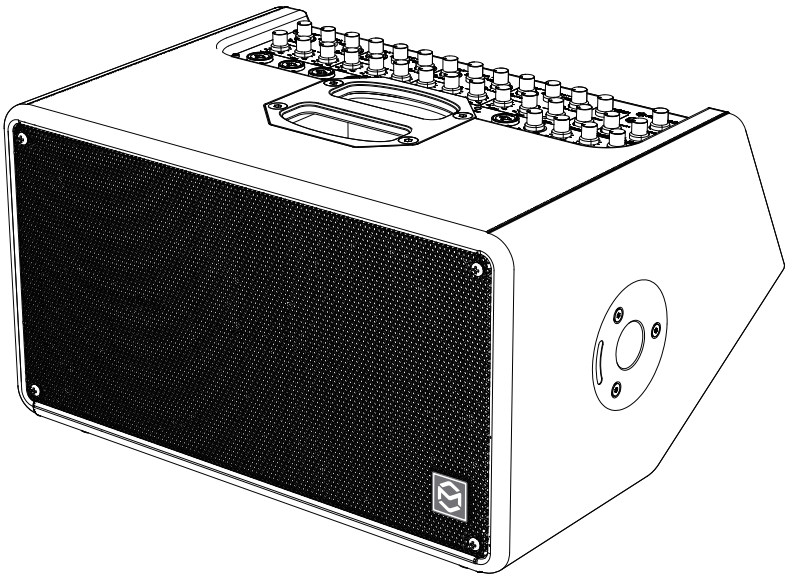
musiccube

User Manual

Musiccube T2 Max

Multifunctional Portable PA System



Product Introduction

Thank you for choosing Musiccube T2 Max.

The T2 Max is a high-performance portable PA system designed for mobile performances and sound reinforcement applications. It features nine high-efficiency neodymium drivers and a line-array acoustic design, delivering controlled directivity, strong sound projection, and clear, balanced coverage over extended distances.

The system provides multiple input channels, each offering four source-specific voicing presets: Vocal, Electric Guitar, Acoustic Guitar, and Keyboard. These presets allow the sound response to be quickly optimized for different input sources.

Four built-in effects are available: Reverb 1, Reverb 2, Delay, and Echo. The Dry/Wet mix and effect depth can be adjusted independently, providing flexible sound processing for a wide range of instruments, vocals, and performance environments.

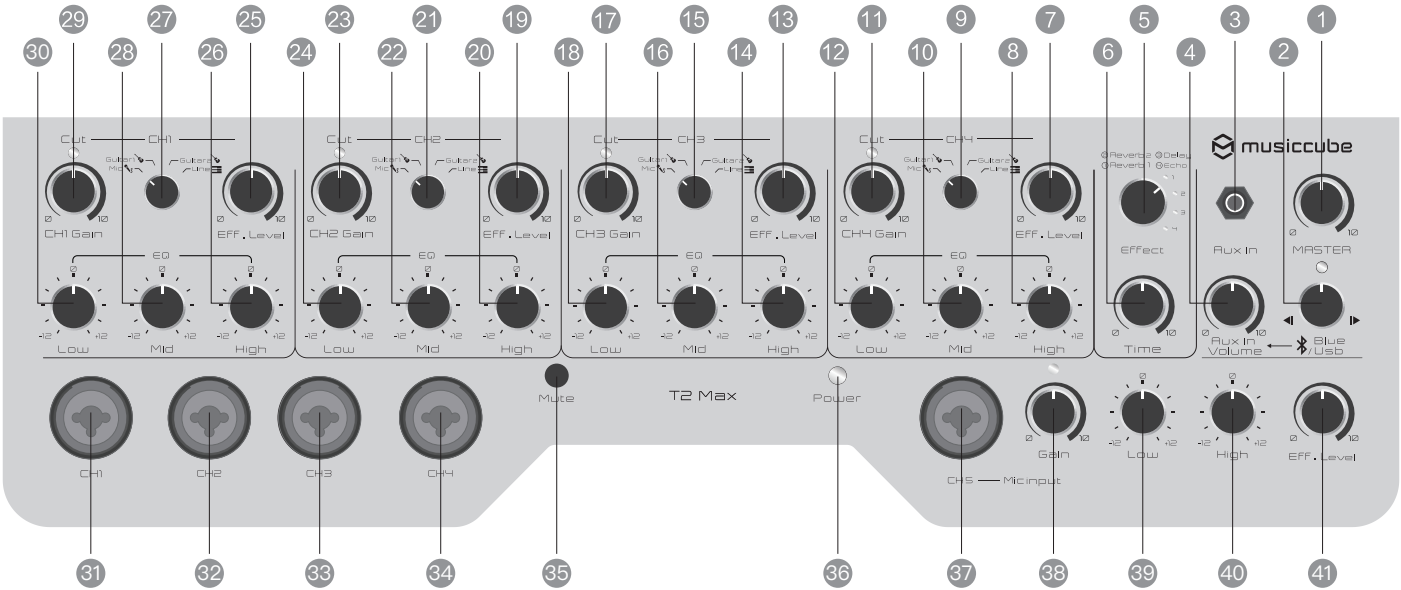
Featuring a lightweight and portable design, the T2 Max provides approximately 6—8 hours of battery-powered operation, depending on the volume level and operating conditions. It is suitable for outdoor rehearsals, street performances, small live events, and other mobile sound reinforcement applications.

Continue exploring and enjoying the remarkable experience of the Musiccube T2 Max!

Specifications

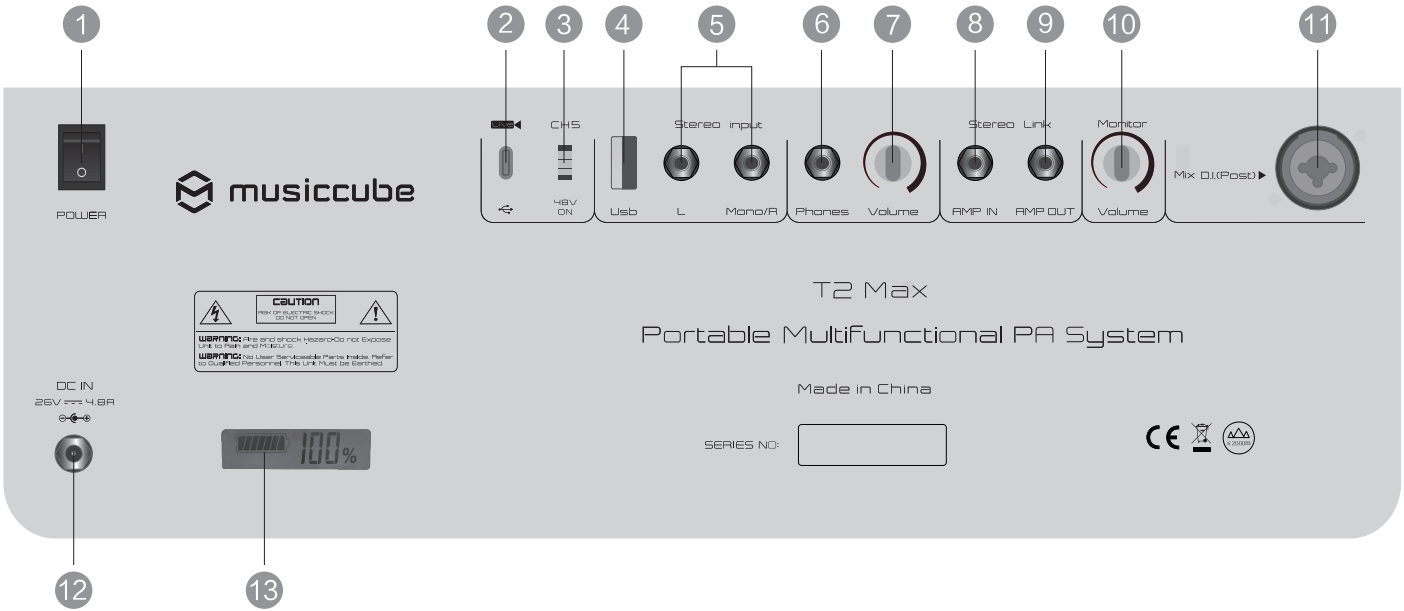
Model	Musiccube T2 Max
Power	Rated Power 320W / Peak Power 480W
Frequency range	50Hz-20kHz
Audio input	4 x Microphone/Line Inputs (XLR/TRS)
	1 x Microphone Input (XLR/TRS)
	1 × 3.5 mm AUX Input
	1 x RCA Audio Input
	1 x Bluetooth Input
	1 x USB Input
Additional Features	OTG Live Streaming and Internal Recording / Balanced Output / Headphone Monitoring
Effects	Reverb 1 / Reverb 2 / Delay / Echo
Speaker Units	2 × 8-inch Low-Frequency Drivers
	6 × 2-inch Mid/High-Frequency Drivers
	1 × 3-inch Full-Range Monitor Driver
Dimensions	470 × 371 × 264 mm
Net Weight	12.65 kg
Power supply	AC: 100V ⎓ 240V
	DC: 26V ⎓ 4.8A

Front Panel Function Introduction (I)



No.	Name	Description
Main Controls		
①	Master Volume	Adjusts the overall output volume.
②	Bluetooth/USB Control	Press and hold for 3 seconds to enable Bluetooth. Turn to select the previous or next track. Press briefly to play or pause.
③	3.5 mm AUX Input	Connects a smartphone or other external audio source.
④	AUX Volume	Adjusts the volume for Bluetooth, USB, and the 3.5 mm AUX input.
⑤	Effect Selector	Selects Hall, Concert Hall, Delay, or Echo.
⑥	Effect Time	Adjusts the time parameter of the selected effect.
㉟	Mute Button	Mutes or restores the speaker output.
㊱	Status Indicator	White: normal operation. Red: muted.
Channel Controls		
⑪⑰㉓㉙㊳	Channel Gain	Adjusts the gain for Channels 1—5. Turn counterclockwise to decrease and clockwise to increase.
⑦⑬⑲㉕㊶	Channel Effect Level	Adjusts the effect level for Channels 1—5. Turn counterclockwise to decrease and clockwise to increase.
⑧⑭⑳㉖㊵	High EQ	Adjusts the high-frequency level.
⑩⑯㉒㉘	Mid EQ	Adjusts the mid-frequency level.
⑫⑱㉔㉚㊴	Low EQ	Adjusts the low-frequency level.
⑨⑮㉑㉗	Voicing Selector	Selects Vocal, Instrument 1, Instrument 2, or Line mode.
Channel Inputs		
㉛	Channel 1 Input	Connects a microphone, guitar, or other electronic instrument.
㉜	Channel 2 Input	Connects a microphone, guitar, or other electronic instrument.
㉝	Channel 3 Input	Connects a microphone, guitar, or other electronic instrument.
㉞	Channel 4 Input	Connects a microphone, guitar, or other electronic instrument.
㊲	Channel 5 Input	Connects a dynamic microphone, condenser microphone, or other compatible device.

Rear Panel Function Introduction (I)



Rear Panel Function Introduction (II)

No.	Name	Description
Main Controls		
①	Power Switch	Turns the power on or off.
②	OTG Live Streaming / Internal Recording Port	Connects the speaker to a mobile device using a USB-C recording cable. Supports live streaming and internal recording.
③	48 V Phantom Power Switch	Turns 48 V phantom power on or off for Channel 5.
④	USB Port	Connects a USB flash drive for audio playback.
⑤	Stereo Line Input	Accepts a stereo audio signal.
⑥	Headphone Monitor Output	Connects monitoring headphones with a 6.35 mm plug.
⑦	Headphone Volume Control	Adjusts the headphone monitoring volume.
⑧	Stereo Link Input	Receives an audio signal through a 6.35 mm cable.
⑨	Stereo Link Output	Sends an audio signal through a 6.35 mm cable.
⑩	Monitor Speaker Volume	Independently adjusts the built-in monitor speaker volume.
⑪	Balanced Output	Connects to an audio interface or mixing console.
⑫	DC Power / Charging Input	Connects the power adapter for battery charging or DC operation.
⑬	Battery Level Display	Displays the current battery level.

Operating Precautions

1. Connect the power adapter to the speaker before plugging it into an AC outlet.

2. Before powering on, switch off all connected equipment and set the Master Volume and all Channel Gain controls to minimum.

3. Use a moderate volume level. Do not set both the Channel Gain and Master Volume controls to maximum, as this may damage the speaker system.

4. After extended use, allow the speaker to cool before operating it again.

5. Do not use or store the speaker in humid, hot, or extremely cold environments.

6. Keep the enclosure and ventilation openings clean and unobstructed.

7. If a malfunction occurs, stop using the speaker immediately and contact qualified service personnel.

Precautions

Usage Limitations

- Do not place this product on an unstable, damp surface, or near open flames or heat sources (such as stoves).
- Avoid placing the product near devices that may cause interference.
- Only use the power adapter and battery supplied with the product. Do not use non-original chargers or batteries.

Cleaning & Maintenance

- Do not submerge this product in water or expose it to moisture.
- Avoid using hard objects to wipe the surface, as this may cause scratches.
- Use a soft cloth for cleaning.

Power Supply Precautions

- Only use the provided power adapter and cable supplied with this product.
- If the power adapter or cable is damaged, replace it with the original adapter and cable to prevent insufficient power supply or damage to the circuit board.
- Do not excessively twist, bend, or pull the AC power cord, as this may expose or break the internal wiring.
- Do not use the power adapter and cable provided with this product on other devices.
- Do not allow children to operate this product alone. Keep it out of reach of infants to prevent risks of electric shock or burns.
- Do not insert or remove the power adapter plug with wet hands to avoid electric shock or injury.

Battery Precautions

- Do not disassemble the built-in rechargeable battery pack.
- Only use the original rechargeable battery pack provided with the product.
- Do not subject the rechargeable battery pack to impact or external force.
- Please charge the speaker when the battery level is below 20%.
- If the product will not be used for an extended period, recharge periodically to prevent battery damage.

Operating Environment

- As this product has a wooden structure, avoid using it in humid or direct sunlight conditions to prevent the enclosure from cracking.

Additional Precautions

- Do not drop the product or strike it against hard objects, as this may cause injury or malfunction.
- Do not use the product if it is structurally damaged to avoid injury or other accidents.
- Do not modify or attempt repairs. Only qualified technicians should perform repairs to prevent fire, electric shock, or injury.
- If any abnormality or malfunction occurs, stop using the product immediately to avoid fire, electric shock, or injury.

Troubleshooting and Issues

- Abnormal heating of the power cord, power adapter, or plug during use.
- Smoke emission or a burning odor from the speaker.
- Cracking, looseness, or unusual sounds from any part of the speaker.
- Other abnormalities or malfunctions.

FCC Compliance Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

–Reorient or relocate the receiving antenna.

–Increase the separation between the equipment and receiver.

–Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

–Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Precautions

I. Warranty Policy

Type	Warranty Coverage	Warranty period
Main Unit	Speaker Components	1 year
Accessories	Power Adapter / Power Cable / Battery	1 year

II. About Warranty

1. The product's serial number and warranty card number serve as proof of warranty.
2. The warranty period starts from the date the customer receives the product.
3. Backpack, mobile device connection cables, and packaging materials are not covered under warranty.

III. Non-Warranty Coverage

1. Damage caused by improper transportation, usage, maintenance, or storage by the customer.
2. Damage resulting from repairs by unauthorized service centers, including self-installation or disassembly by the customer.
3. Lack of warranty card, serial number, or valid proof of purchase, or inability to verify the product is within the warranty period.
4. Tampering with or alteration of the product's serial number.
5. Damage due to unavoidable natural disasters.
6. Products that are outside the warranty period.

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