

PULSE

MEGAMOUTH MK3 Portable PA System



Introduction

Thank you for choosing the Megamouth portable PA unit. This product has been designed to provide convenient sound reinforcement for teaching, demonstrations and music applications. Please read the following instructions to achieve the best results from your purchase.

Package Contents

Please check the contents to ensure that the product has been received in good condition.

If you find any accessory is missing or the product has arrived with any problems, please contact your retailer at once.

- 1 x Megamouth portable PA unit
- 1 x VHF handheld microphone
- 1 x VHF bodypack transmitter
- 1 x Tie-clip microphone
- Neckband headset microphone
- Mains fig.8 power lead
- IR Remote control for media player
- User manual

This product contains no user-serviceable parts inside so make no attempt to try to fix or modify this item yourself as this will invalidate the warranty. We recommend you keep the original packaging and proof of purchase for any possible replacement or returned demand.

Warning

To prevent the risk of fire or electric shock, do not expose this appliance to rain or moisture. To prevent electric shock do not remove the cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

Safety

Prior to connecting mains, check the supply voltage is correct and the mains lead is OK.

Avoid ingress of water or particles into the enclosure or accessories.

If the mains fuse blows, refer the unit to qualified service personnel.

If the VHF microphones are to be unused for a long period of time, remove the batteries and store for later use.

Placement

Keep the unit out of direct sunlight and away from heat sources.

Place the unit in an upright position during use and storage.

Keep the unit away from moisture or dusty environments.

Cleaning

Use a soft cloth with a neutral detergent to clean the cabinet, panel and controls.

To avoid damage, do not use solvents to clean this equipment.

Rear Panel Main Controls



- | | |
|-------------------------|--|
| 1. Media player | See detailed section below |
| 2. Internal microphone | For recording into media player |
| 3. VHF antenna | For FM and wireless microphone reception |
| 4. RF carrier indicator | Lights when wireless microphone RF is detected |
| 5. VU level indicators | Indicators for output level in dB |
| 6. POWER | On/Off rocker power switch |
| 7. POWER/CHARGE LEDs | Indicators for mains power on and/or charging |
| 8. MIC VOL | Rotary volume control for 6.3mm MIC input |
| 9. TREBLE | Rotary master treble tone control |
| 10. WM VOL | Rotary volume control for Wireless Microphone |
| 11. BASS | Rotary master bass tone control |
| 12. LINE VOL | Rotary volume control for RCA LINE IN input |
| 13. ECHO | Echo effect level for microphone |
| 14. Compartment | Latching cover for battery and storage compartment |

Side Panel



- | | |
|--------------|---------------------------------------|
| 15. MIC | 6.3mm jack input for wired microphone |
| 16. LINE OUT | 6.3mm jack master line output |
| 17. LINE IN | L+R RCA line input |
| 18. PHONES | 3.5mm headphones jack output |
| 19. DC 12V | 12Vdc power input (e.g. car battery) |

Operation

The Megamouth portable PA unit may be powered from mains or the internal rechargeable battery. Before switching on, ensure that all rotary controls are turned fully down.

To operate from mains, connect the supplied Fig.8 lead to an appropriate mains outlet.

The POWER and CHARGE LEDs (7) will indicate the mains power status.

The CHARGE indicator will light red to indicate that the battery is charging. This will change to green when fully charged.

In order to operate from the battery, it is important to charge from the mains first.

An external 12Vdc power supply may be used, such as a car battery or mains adaptor. This should be connected to the side-mounted DC12V 2.1mm jack (19) with centre wired to positive. Should the overall output of the Megamouth be required to feed another active speaker or recording device, this may be connected via the 6.3mm LINE OUT jack (16)

Switching on the POWER switch (6) will activate the Megamouth and the POWER LED will light.

Turn up TREBLE (9) and BASS (11) controls to the 12 o'clock position.

For silent practice or checking input signals, a pair of headphones may be connected to the Megamouth via the side-mounted 3.5mm jack (18)

The Megamouth is now ready for use.

Wired Microphone (optional)

A wired microphone may be connected to the 6.3mm MIC jack (15) if required.
Gradually turn up the MIC VOL control (8) whilst speaking into the microphone.
Point the microphone away from the front of the Megamouth to avoid feedback.
Continue until the required volume is reached, taking care not to overdrive the input.
Add echo if desired by gradually turning up the ECHO (13) control.
Turn down the MIC VOL control when not in use.

Wireless Microphone

The Megamouth is supplied with a wireless handheld VHF microphone and a VHF beltpack transmitter with headset and tie-clip microphones.

Note: *Either* handheld or beltpack can be used at one time – not both simultaneously.

Handheld VHF Transmitter

Unscrew the bottom from the handheld transmitter to reveal the battery compartment.
Gently lever the battery retainer forwards and insert 2 x AA batteries, observing polarity as shown.
Move the sliding switch to the up position and the red LED will light momentarily.
If the LED is lit constantly, the batteries are nearly discharged and will need replacing.
See “Checking the VHF Microphone” below.

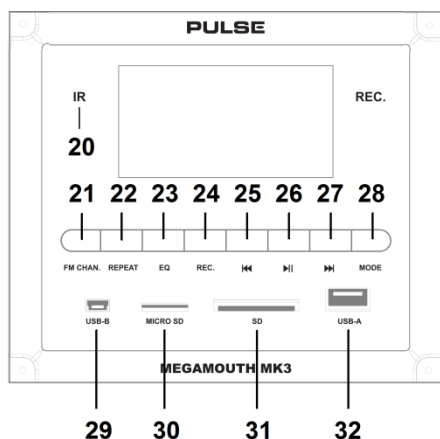
Beltpack VHF Transmitter

Connect either tie-clip or headset microphone to the beltpack via the 3.5mm threaded jack.
Squeeze the sides of the beltpack transmitter and pull forward the lower half of the front to reveal the battery compartment. Insert 2 x AA batteries, observing polarity as shown.
Slide the switch on top of the beltpack to the ON position and the red LED will light momentarily.
If the LED is lit constantly, the batteries are nearly discharged and will need replacing.
There is a centre position for this switch, which mutes the microphone but maintains RF signal.

Checking the VHF Microphone

Gradually turn up the WM VOL control (10) whilst speaking into the microphone.
Point the microphone away from the front of the Megamouth to avoid feedback.
Continue until the required volume is reached, taking care not to overdrive the input.
Add echo if desired by gradually turning up the ECHO (13) control.
BASS and TREBLE controls may be adjusted up or down to change the overall tone.
Switch off the transmitter and turn down the WM VOL control when not in use.
If not used for long periods, remove batteries from the handheld or beltpack transmitter.

Media Player/Recorder



- | | | |
|-----|-------------|-------------------------------------|
| 20. | IR receiver | Receives remote control signal |
| 21. | FM CHAN. | Selects FM tuner channel/station |
| 22. | REPEAT | Steps through track repeat modes |
| 23. | EQ | Steps through preset EQ profiles |
| 24. | REC. | Activates internal audio recorder |
| 25. | -/PREVIOUS | Previous track or hold for volume – |
| 26. | PLAY/PAUSE | Toggles between play and pause |
| 27. | NEXT/+ | Next track or hold for volume + |
| 28. | MODE | Steps through playback modes |
| 29. | USB-B | Mini USB connection to PC |
| 30. | MICRO SD | Slot to expand internal memory |
| 31. | SD | Slot for SD/SDHC media |
| 32. | USB-A | Port for USB memory device |

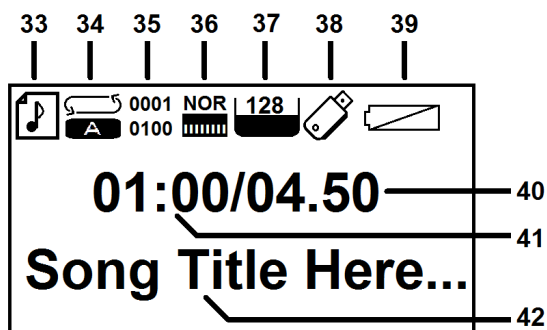
When the Megamouth is first switched on, the built-in media player/recorder module will power up. Output of this module is governed by the LINE VOL rotary control (12)

Ensure this is not turned fully down.

If the display is not lit, press and hold the MODE button until it lights.

Also ensure that the media player is not turned down internally by pressing and holding the NEXT/+ button (27)

Audio Files Playback



- | | |
|-----|--|
| 33. | Audio playback symbol |
| 34. | Repeat mode |
| 35. | Track number (top) Total tracks (bottom) |
| 36. | EQ type |
| 37. | Bit rate and file type |
| 38. | Media type (USB or SD) |
| 39. | Battery charge |
| 40. | Track length |
| 41. | Elapsed time |
| 42. | Song title |

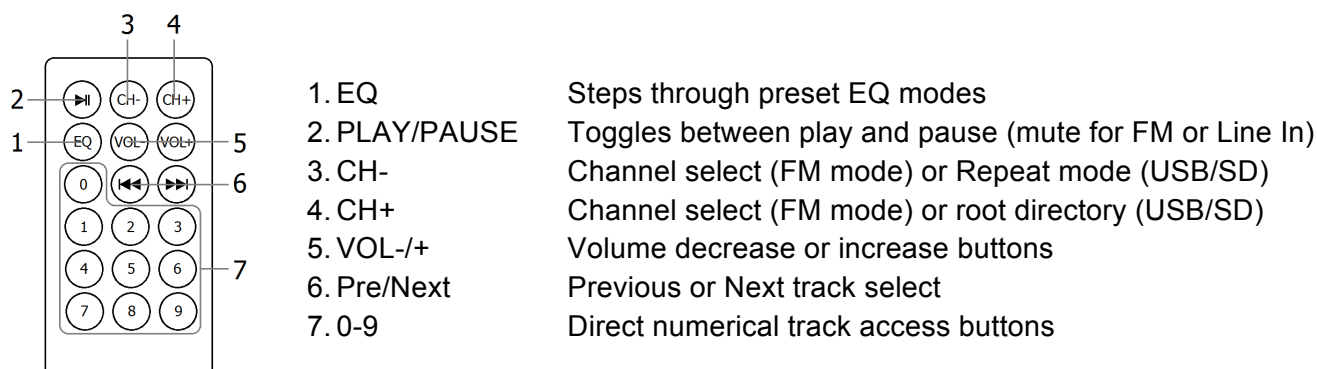
The media player/recorder will enter the last playback mode used before it was powered down. There are 4 possible audio file playback modes which can be accessed by pressing MODE (28). For all modes, there are 3 transport controls as shown below.

- | | |
|------------|---|
| -/PREVIOUS | Press for previous track or press and hold to decrease volume |
| PLAY/PAUSE | Press to toggle between play and pause |
| NEXT/+ | Press for previous track or press and hold to increase volume |

Remote Control

The media player/recorder is supplied with a handheld IR remote control.

Remove the plastic strip before use to activate the battery.



Internal Media

Internal media mode will play back digital audio tracks stored in internal memory which is separate from any external memory device that maybe connected to the Megamouth.

Internal memory can be expanded by inserting a micro SD card into the slot.

WAV Playback

If no external media device is connected, it is possible to record directly to internal memory as WAV format files (see below). Playback of internal WAV files can be accessed by pressing the MODE button until the display shows "REC0001, REC0002, REC0003 etc." Scroll up and down through tracks using - /PREVIOUS and NEXT/+ buttons and press PLAY to play the selected track.

Press and hold PLAY/PAUSE to delete a selected WAV file.

SD Card

Inserting an SD card will override the internal memory and play back digital audio files stored on the SD card. Recording to the Megamouth will now store files here instead of internally.

USB

Inserting a USB memory device will play back digital audio files stored on the USB device. Pressing the MODE button 3 times can switch to either internal memory or an SD card if it is connected. Recording to the Megamouth will now store files here instead of internally or SD card.

Repeat Modes

For playback of audio (not WAV) there are 4 repeat modes, available by pressing REPEAT (22)

Intro	Plays the first 10 seconds of each track in the folder or root directory in sequence
RepeatOne	Plays a single track repeatedly
Random	Plays all tracks in the folder or root directory in random order
Repeat All	Plays all tracks in the folder or root directory in sequence and then repeats all

EQ Modes

For all playback modes, there are 11 EQ modes which are available by pressing the EQ button.
NORMAL – OPER – POP – ROCK – SOFT – BASS – BLUE – CLASSIC – COUNTRY – HALL - JAZZ

Each offers a different tonal profile based on the style of music which it is named after.
NORMAL is unaffected, without EQ.

FM Tuner

In addition to audio files, the MEGAMOUTH has an internal FM radio tuner. This mode can be accessed by pressing the MODE button in the same way as for audio playback modes.

Operation as follows:

1. Ensure the VHF antenna is extended for best results
2. If using the FM tuner for the first time, press and hold the PLAY/PAUSE button.
This will automatically find local FM stations and store these as channels.
3. To step through these stored channels, press the FM CHANNEL (21) button
4. To manually tune and search for stations, use the -/PREVIOUS and NEXT/+ buttons
5. Pressing the PLAY/PAUSE button will mute/un-mute the FM tuner

Line In

If no internal sound source is needed, there is a line input mode where “LINE IN” and a jack plug are shown in the display. This mode stops any playback from the media player/recorder module. Any signal connected to the side mounted RCA LINE IN connectors (17) is played through the Megamouth and governed by the LINE VOL rotary control.

Record Mode

Pressing and holding the REC. button (24) enters record mode and starts recording to a WAV file.

The following audio sources can be recorded to the WAV file...

- Internal microphone – active when internal or external memory playback are selected
- FM Tuner – active when FM Tuner mode is selected
- Wired microphone connected to the side mounted MIC jack, governed by the MIC VOL control
- Wireless microphone transmitting to the Megamouth, governed by the WM VOL control
- Line level input connected to the LINE IN RCA connectors, governed by the LINE VOL control – active when LINE IN mode is selected

If no external memory devices are connected, the WAV file will be stored in internal memory.

If an SD card is connected, the WAV file will be stored to the SD card.

If a USB memory device is connected, the WAV file will be stored to the USB device.

Press PLAY/PAUSE to pause or re-start recording.

Press REC. or MODE to stop recording

Press and hold PLAY/PAUSE to delete a selected WAV file.

LINE VOL must be turned up for playback of recorded WAV files.

For all audio sources and microphones, tone can be adjusted via BASS and TREBLE controls.

PC Connection

It is possible to access the internal memory of the Megamouth by connecting to a PC or Mac computer using the USB-B mini USB connector (29)

The media player/recorder can be powered from this USB connection.

Once connected, the host computer will recognize the Megamouth as USB memory device.

It is possible to access and move around files in the Megamouth memory in the same way as for a USB memory stick.

Pressing and holding the MODE button will power down the player/recorder module.

NOTE: To access the internal memory of Megamouth by computer.

- Turn Megamouth on, Line In will be displayed as the current mode.
- Press “Mode” button until the Megamouth searches for a device.
- When the screen says “No Device” plug the USB lead in from the computer to the USB-B connector on the Megamouth.
- The computer will now connect to and display the internal memory of the Megamouth.

Specifications

Power supply (main unit)	AC230V (or 12Vdc optional) and internal battery
Power supply (VHF transmitters)	3Vdc (2 x AA batteries each)
VHF wireless microphone frequency	174.1MHz or 175.0MHz
Carrier frequency stability	±0.005% (-20°C ~ 40°C)
Frequency range	100Hz-10kHz
Effective distance	50m (open field)
Line output impedance	600Ω
S/N ratio	≥60dB
Output power	35Wmax
Internal memory	4GB (expandable with micro SD)
External memory	Optional USB or SD/MMC card
Dimensions	325 x 250 x 145mm
Weight	2.97kg

Errors and omissions excepted.

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