

# HotShot MD

## Stage Mic Switcher



# User Guide

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# Radial® HotShot MD User Guide

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Thank you for purchasing the Radial HotShot MD, a stage mic switcher designed for momentarily rerouting dynamic microphones to multiple destinations.

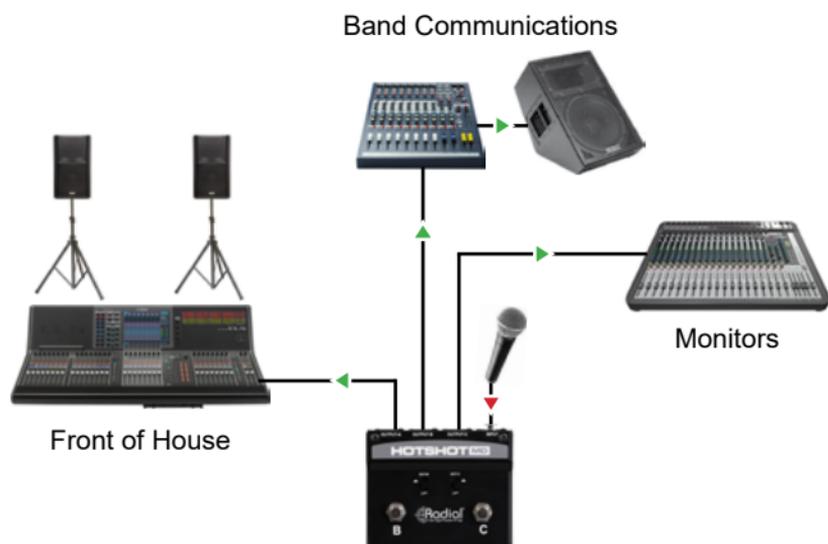
We recommend you take a few minutes to read this short manual before you begin using the HotShot MD, as it covers the features of the device and tips for setup and use. Should you have any questions about the HotShot MD or any other Radial products, please visit our website at [www.radialeng.com](http://www.radialeng.com) for additional resources and frequently asked questions.

## OVERVIEW

The Radial HotShot MD gives music directors easy and discreet control over their microphone outputs to enable seamless transitions between singing, cueing the band, and coordinating with techs and engineers—all without disrupting the audience experience.

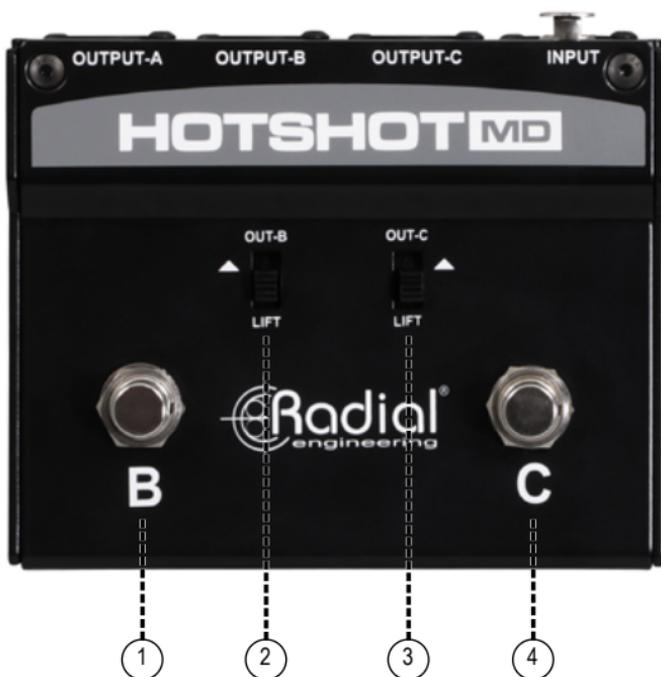
The HotShot MD allows signal to pass through its main output when no footswitches are depressed, so your vocal mic normally feeds the PA system via the Front of House console. If either the B or C footswitches are engaged, the output to the PA will be muted, and signal will be diverted to Output-B or Output-C, depending on which footswitch is depressed. This allows you to instantly reroute your mic to speak with band members or technicians as needed without the audience hearing a thing. Both footswitches can also be engaged simultaneously, so you can communicate with all parties at once. The moment you release either footswitch, your vocal mic automatically redirects back to the PA system so the performance can continue.

Engineered with Radial's signature road-ready construction and instant noise-free switching, the HotShot MD streamlines communication, boosts efficiency, and enables bandleaders to focus on delivering flawless performances.



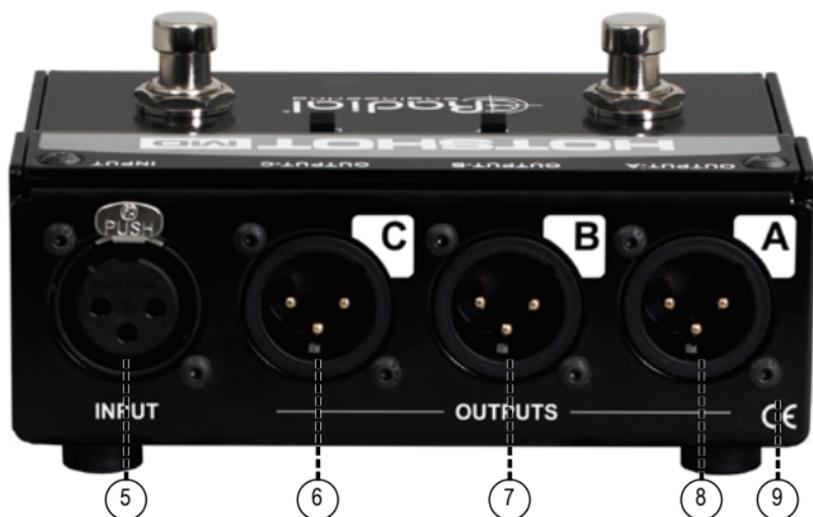
*Using the HotShot MD to communicate with multiple destinations*

## FEATURES - TOP PANEL



1. **OUTPUT-B FOOTSWITCH:** Momentary footswitch that reroutes the microphone signal to Output-B.
2. **OUTPUT-B GROUND LIFT:** Disconnects pin-1 on Output-B to alleviate potential ground loop noise.
3. **OUTPUT-C GROUND LIFT:** Disconnects pin-1 on Output-C to alleviate potential ground loop noise.
4. **OUTPUT-C FOOTSWITCH:** Momentary footswitch that reroutes the microphone signal to Output-C.

## FEATURES - REAR PANEL



5. **INPUT:** Locking XLR input for connection to a dynamic microphone.
6. **OUTPUT-C:** XLR output for connection to a third location such as a stage technician communication channel. This output is active only when the C footswitch is held down.
7. **OUTPUT-B:** XLR output for connection to a second location such as a band communication channel. This output is active only when the B footswitch is held down.
8. **OUTPUT-A:** XLR output for connection to the vocal channel on the main PA system. This output is automatically muted whenever the B or C footswitches are depressed.
9. **14 GAUGE STEEL ENCLOSURE:** Heavy duty stage enclosure built to withstand the rigors of professional concert touring.

## MAKING CONNECTIONS

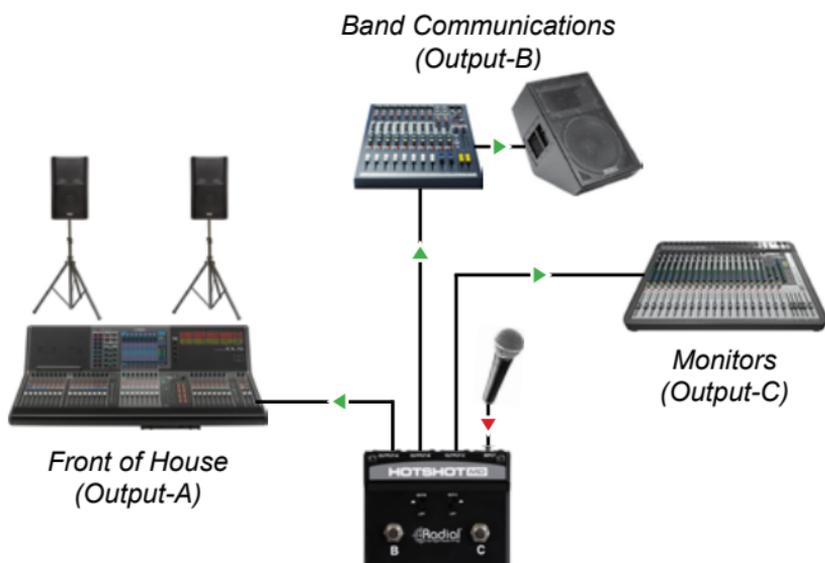
As with all audio systems, it is good practice to turn volume levels down or mute any associated channels on your mixers before making connections to the HotShot MD. The HotShot MD utilizes standard XLR connections for the input and outputs, and the input connector features a locking tab to prevent against accidental disconnection during a performance.

Begin by connecting your dynamic microphone to the input of the HotShot MD using an XLR cable, and placing the switcher in a position that is easy for the vocalist to access. Note that the HotShot MD is not compatible with condenser microphones that need phantom power (if you require a condenser mic switcher, we recommend the Radial HotShot 48V).

Output-A will typically be connected to the channel on the PA system that feeds the audience. The microphone signal will automatically pass through to this output when no footswitches are depressed on the HotShot MD. You can use XLR cables of up to 300 feet in length when connecting from any output on the HotShot MD.

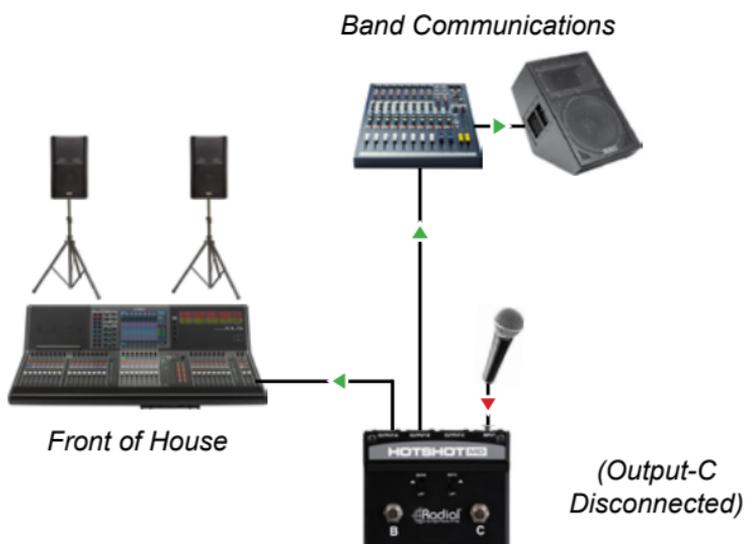
Output-B is designed to feed a secondary destination. Usually this would connect to a channel on a mixer that feeds the band's in-ear monitors or stage wedge speakers, allowing the vocalist to press the B footswitch and instantly speak to the band.

Output-C reroutes the microphone to a third destination, allowing for direct communication with stage technicians or monitor engineers. Pressing the C footswitch activates this channel, and it can be pressed at the same time as the B footswitch to speak to both destinations at once. Alternatively, you can leave output-C disconnected, which will allow the C footswitch to function as a cough mute.

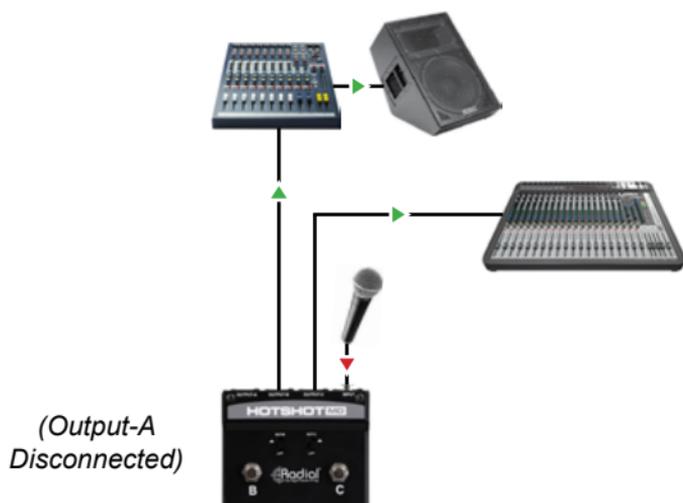


## ADDITIONAL APPLICATIONS

There are multiple ways you can use the HotShot MD to best suit your setup. One common application is to leave Output-C disconnected, which effectively turns the C footswitch into a momentary mute button. Vocalists can then use the HotShot MD to communicate with band members or to temporarily mute their own mic if they need to cough.

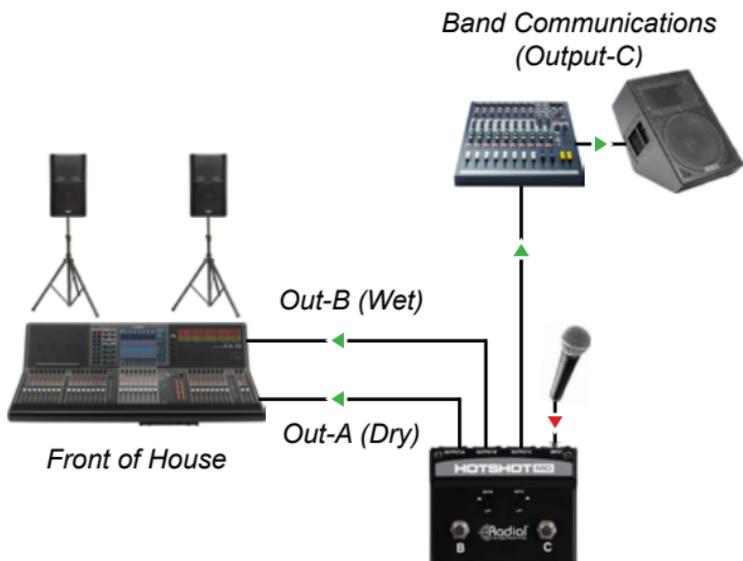


The HotShot MD can also be used by technicians or engineers for communication offstage. In this case, you can leave Output-A disconnected, so the microphone is normally muted. The tech can press either footswitch as needed and temporarily activate their mic for communication to the desired destination.



## ADDITIONAL APPLICATIONS (CONTINUED)

With the HotShot MD, you don't necessarily have to feed each output to a separate location in the venue. For example, you can send both Output-A and Output-B to the FOH console, and apply effects to the B channel. This gives the vocalist the ability to switch their mic between a dry and a wet channel at the PA, making it easy to apply vocal effects during a chorus or bridge.



## ELIMINATING NOISE

The HotShot MD is designed to operate as silently as possible, so there are no audible clicks or pops through the audio system when switching the microphone between any of the destinations. However, depending on the venue or the setup, there may be times when you encounter noise when connecting the HotShot MD to your system.

The most common source of noise with the HotShot MD is 48V phantom power, as this can cause a DC offset between channels that results in a popping sound when the switching occurs. For this reason we always recommend ensuring that phantom power is disengaged on any mixer channels that are connected to Outputs A, B or C. Also make sure to only use dynamic microphones with the HotShot MD for this same reason.



*The ground lift switches*

The HotShot MD is also equipped with two ground lift switches that can help eliminate ground loop noise. Simply toggle these switches and choose the position that results in the lowest noise while monitoring Output-A.

## SPECIFICATIONS\*

Audio Circuit Type: .....	Passive, true-bypass
Frequency Response: .....	20Hz - 20kHz, +0dB/-0.05dB
Total Harmonic Distortion: .....	<0.00016% @ +4dBu, 20Hz - 20kHz
Total Harmonic Distortion + Noise: .....	<0.00037% @ +4dBu, 20Hz - 20kHz, 20kHz BW
Intermodulation Distortion: .....	<0.0014% 60Hz/7kHz, 4:1, +4dBu
Signal to Noise Ratio: .....	>110dB re +4dBu, 22kHz BW

### Features

Input / Output Connectors .....	1 locking XLRf, 3 XLRM
Footswitches:.....	Momentary
Ground Lift Switches: .....	Disconnects Pin-1 on associated XLRM

### General

Construction: .....	14-gauge Steel Chassis
Finish: .....	Durable Powder Coat
Warranty: .....	Radial 3-year, transferable

\* Subject to change without notice.





## THREE YEAR TRANSFERABLE LIMITED WARRANTY

RADIAL ENGINEERING LTD. ("Radial") warrants this product to be free from defects in material and workmanship and will remedy any such defects free of charge according to the terms of this warranty. Radial will repair or replace (at its option) any defective component(s) of this product (excluding finish and wear and tear on components under normal use) for a period of three (3) years from the original date of purchase. In the event that a particular product is no longer available, Radial reserves the right to replace the product with a similar product of equal or greater value. In the unlikely event that a defect is uncovered, please call 604-942-1001 or email [support@radialeng.com](mailto:support@radialeng.com) to obtain an RA number (Return Authorization number) before the 3 year warranty period expires. The product must be returned prepaid in the original shipping container (or equivalent) to Radial or to an authorized Radial repair center and you must assume the risk of loss or damage. A copy of the original invoice showing date of purchase and the dealer name must accompany any request for work to be performed under this limited and transferable warranty. This warranty shall not apply if the product has been damaged due to abuse, misuse, misapplication, accident or as a result of service or modification by any other than an authorized Radial repair center.

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To meet the requirements of California Proposition 65, it is our responsibility to inform you of the following:

**WARNING:** This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Please take proper care when handling and consult local government regulations before discarding.



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Radial® HotShot MD User Guide - Part #: R870 2020 00 / 01-2026

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