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## Powered Bookshelf Speaker Owner's Manual

**Model: ON3**

### ***Got a Question or Need Help?***

Email our technical support team at: [support@miccatron.com](mailto:support@miccatron.com) for personalized assistance with the setup and use of this product. Please visit our product information website [www.miccatron.com](http://www.miccatron.com) for the following:

- Product Updates
- User's Manuals
- Troubleshooting Wizard
- Technical Support Request

***Warranty: 1 Year***

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# 1 IMPORTANT

## 1.1 IMPORTANT SAFETY INSTRUCTIONS

Read these instructions – All the safety and operating instructions should be read before this product is operated.

Keep these instructions – The safety and operating instructions should be retained for future reference.

Heed all warnings – All warnings on the appliance and in the operating instructions should be adhered to.

Follow all instructions – All operating and use instructions should be followed.

Do not use this apparatus near water – The apparatus should not be used near water or moisture – for example, in a wet basement or near a swimming pool, and the like. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Unplug the apparatus during lightning storms or when unused for long periods of time.

Clean only with dry cloth.

Install in accordance with the instructions in this manual. Only use attachments/accessories specified in this manual.

Do not defeat the safety purpose of the polarized or grounding plug. A polarized plug has two blades with one wider than the other. A grounding plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.

Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not install this equipment in a confined or building-in space such as a book case or similar unit, and remain a well ventilation conditions at open site.

## 1.2 Hearing Damage – IMPORTANT!

Please exercise caution and avoid listening to music at excessive volume. The following excerpt is from the CDC website:

*“Hearing loss can result from damage to structures or nerve fibers in the inner ear that respond to sound. This type of hearing loss, termed “noise-induced hearing loss,” is usually caused by exposure to excessively loud sounds and cannot be medically or surgically corrected.*

*Sound intensity is measured in decibels with a sound level meter. Noise-induced hearing loss*

*can result from a one-time exposure to a very loud sound (at or above 120 decibels), blast, impulse, or by listening to loud sounds (at or above 85 decibels) over an extended period. The louder the sound, the shorter the time period before hearing damage occurs.”*

**Listen smart, protect your hearing!**

### **1.3 FCC Statement**

1. 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.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

2. 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.

#### **FCC Radiation Exposure Statement**

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.

## 2 Introduction

Thank you for your purchase! The Micca ON3 is a compact and stylish powered bookshelf speaker system designed for enjoying your favorite music in small rooms and settings such as an office, study, or kitchen. Finished with simple modern lines, the ON3 is sure to add a splash of style wherever it sits and has been thoughtfully designed to be easy and convenient to use.

### 2.1 Feature Highlights

#### 2.1.1 General

- 3-Inch full range driver with treated paper cone, rubber surround, neodymium magnet, and copper shorting ring.
- Full volume ported enclosure with flared opening
- Side mounted power, volume, and EQ selection dial
- Infrared remote control with magnetic storage

#### 2.1.2 Technical

- 24-Bit audio DSP engine
- Two EQ profiles: 1) Flat; 2) Bass Enhanced
- 24W x 2 RMS power Class-D amplifier

#### 2.1.3 Inputs

- RCA stereo analog input
- Front panel 3.5mm AUX input

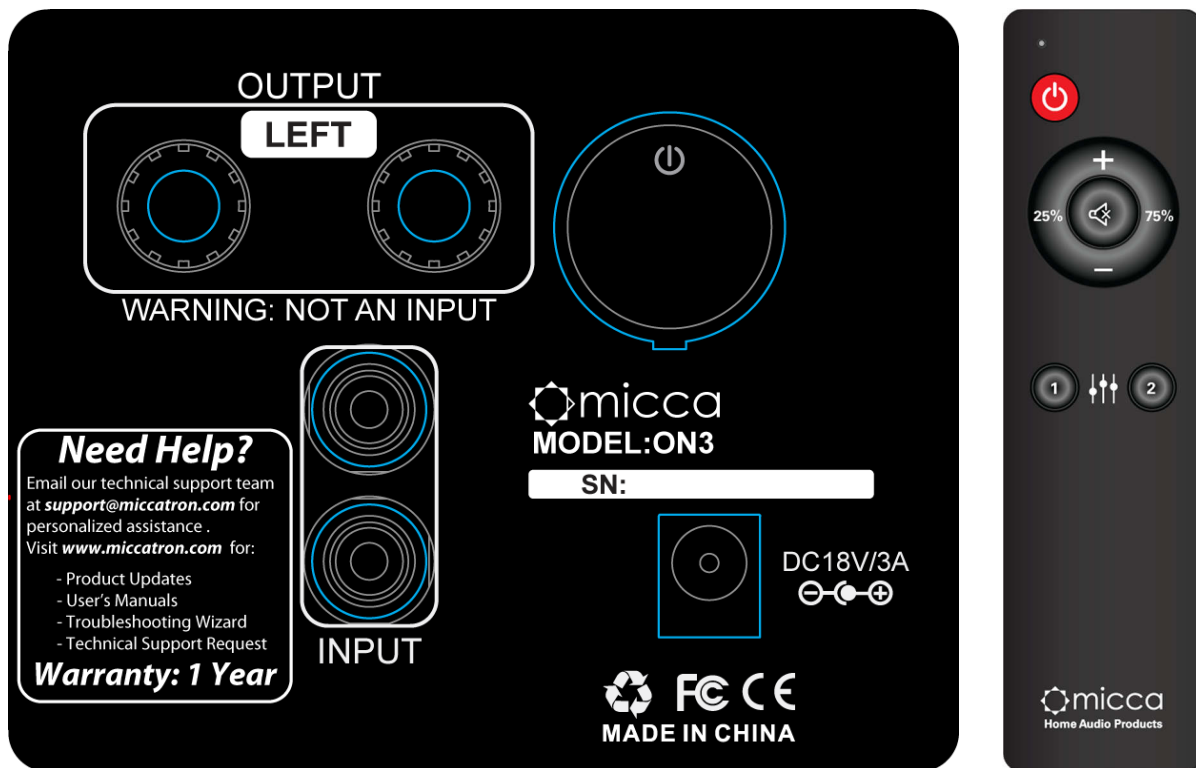
#### 2.1.4 What's Included

- Micca ON3 Bookshelf Speakers
- IR Remote Control
- 3.5mm to RCA Audio Cable
- 3.5mm to 3.5mm AUX Audio Cable
- AC Power Adapter
- User's Manual

**Note:** All information contained in this manual was correct at the time of publication. However, as our engineers are always updating and improving the product, your device may have a slightly different appearance or modified functionality than presented in this manual. These changes will be reflected in future revisions of this manual.

## 3 Product Overview

### 3.1 Connections and Controls



Name	Description
<b>Rear Power</b>	Power switch. Leave on for normal use. Press the side volume knob to turn the speakers on or into stand-by mode.
<b>Rear RCA Input</b>	Line-level stereo input RCA jacks.
<b>Rear Output</b>	Speaker output to the left speaker. <b>DO NOT CONNECT A DIFFERENT AMPLIFIER TO THESE JACKS.</b>
<b>Rear DC Jack</b>	Power jack, for use only with the supplied power adapter.
<b>Side Volume Dial</b>	Not Pictured. Sets the playback volume. Press to turn speaker on or into stand-by mode. Press and hold for 2 seconds to toggle between EQ1 and EQ2
<b>Front AUX Input</b>	Not Pictured. Line-level stereo input 3.5mm jack. Overrides rear RCA input when an AUX cable is inserted.
<b>Remote Power</b>	Press to turn speaker on or into stand-by mode.
<b>Remote +/-</b>	Increase or decrease volume.
<b>Remote Mute</b>	Mute the output, press again to unmute.
<b>Remote 25%</b>	Set the playback volume to 25% - See Section 5.2
<b>Remote 75%</b>	Set the playback volume to 75% - See Section 5.2
<b>Remote EQ1</b>	Select EQ1 sound profile – See Section 5.3
<b>Remote EQ2</b>	Select EQ2 sound profile – See Section 5.3

## 4 Connection and Setup

Micca ON3 bookshelf speakers can be used in a variety of configurations, such as near field computer speakers, stereo speakers for a turntable, TV speakers in a small room, or as background music speakers in an office or kitchen. This chapter explains the various ways in which the connections and settings should be used.

### 4.1 Use as Computer Speakers

This section explains how to use the Micca ON3 as computer speakers. For best results, follow the recommended configuration suggestions below:

- Place the Micca ON3 speakers on either side of the computer monitor.
- Using the provided 3.5mm to RCA cable, connect the computer's 3.5mm audio output to the RCA input on the back of the Micca ON3. For desktop computers, the main stereo audio output jack is typically located on the back and green colored. For laptops, use the headphone output jack.
- Set the computer's volume output to maximum, and use the Micca ON3's volume control.
- If it is preferred to use the computer's volume control, press the "75%" button on the ON3's remote control to set its volume. Higher volume settings beyond 75% may have more audible background noise.
- A temporary music source such as a smartphone can be connected to the AUX jack on the front of the Micca ON3 using the included 3.5mm AUX audio cable. The AUX input has priority over the rear RCA input. To resume playing music from the RCA input, disconnect the AUX input from the Micca ON3.

### 4.2 Use With Turntable

This section explains how to use the Micca ON3 with turntables. Since the Micca ON3 does not have a phono stage, it is important that the turntable has an internal phono pre-amp, or is used with an external phono pre-amp. For best results, follow the recommended configuration suggestions below:

- Place the Micca ON3 speakers on either side of the turntable, ensure that the speakers do not physically touch the turntable, which may cause undesirable operation.
- Use a RCA-to-RCA audio cable (not included) to connect the audio output from the turntable to the RCA input on the back of the Micca ON3. Note that if the turntable does not have an internal phono pre-amp, a separate phono pre-amp must be used. Consult the user's manual for your turntable to check if a separate phono pre-amp is needed.
- Use the Micca ON3 volume control to set the desired playback volume.

- A temporary music source such as a smartphone can be connected to the AUX jack on the front of the Micca ON3 using the included 3.5mm AUX audio cable. The AUX input has priority over the rear RCA input. To resume playing music from the RCA input, disconnect the AUX input from the Micca ON3.

NOTE: The Micca ON3 electronically filters out signal below 30Hz, which effectively eliminates low frequency rumbles.

### **4.3 Use With a TV**

This section explains how to use the Micca ON3 with a TV. Since the Micca ON3 does not have an optical input, it is important that the TV has analog audio output jacks, or is used with an optical-to-analog-stereo converter. For best results, follow the recommended configuration suggestions below:

- Place the Micca ON3 speakers on either side of the TV.
- Use a RCA-to-RCA audio cable (not included) to connect the audio output from the TV to the RCA input on the back of the Micca ON3. If there is no analog audio output on the TV, check to see if there is a headphone audio output jack, which can also be used. If only an optical audio output is available, a separate optical-to-analog-stereo converter must be used. Consult the user's manual for your TV to learn more about what audio output options are available.
- Set the TV's volume output to maximum, and use the Micca ON3's volume control.
- If it is preferred to use the TV's, press the "75%" button on the ON3's remote control to set its volume. Higher volume settings beyond 75% may have more audible background noise.
- A temporary music source such as a smartphone can be connected to the AUX jack on the front of the Micca ON3 using the included 3.5mm AUX audio cable. The AUX input has priority over the rear RCA input. To resume playing music from the RCA input, disconnect the AUX input from the Micca ON3.

### **4.4 Use For Background Music**

This section explains how to use the Micca ON3 for background music in a small room such as office or kitchen. For best results, follow the recommended configuration suggestions below:

- Place the Micca ON3 speakers a counter, bookshelf, or table. For best results, avoid placing near a corner of the room.
- Using the provided 3.5mm to RCA cable, connect a smartphone, tablet, MP3 player, or any other audio source to the RCA input on the back of the Micca ON3.
- Set the audio source volume output to maximum, and use the Micca ON3's volume



control.

- If it is preferred to use the source volume control, press the “75%” button on the ON3’s remote control to set its volume. Higher volume settings beyond 75% may have more audible background noise.
- A temporary music source such as a smartphone can be connected to the AUX jack on the front of the Micca ON3 using the included 3.5mm AUX audio cable. The AUX input has priority over the rear RCA input. To resume playing music from the RCA input, disconnect the AUX input from the Micca ON3.

## 5 Use and Operation

The ON3 has been designed for ease of operation, with intuitively designed features and controls. Following are general use and operation recommendations that will help you get the most enjoyment out of the ON3 speakers.

### 5.1 Power

During normal use, set the physical power switch on the back of the ON3 to the “On” position, and use the remote control to turn the speakers on or place into stand-by mode. This can also be accomplished by pressing the volume dial on the side of the ON3.

If the speakers will not be used for a while, such as when going on vacation, turn the power switch on the back of the ON3 to the “Off” position to conserve power.

### 5.2 Setting Volume

Use the remote control or side volume dial to change the ON3’s playback volume. There are 40 volume levels and the volume dial will flash once for each step. If maximum or minimum volume has been reached, further adjustments will have no effect and the volume dial will not flash. The ON3 can be quickly muted or unmuted using the remote control.

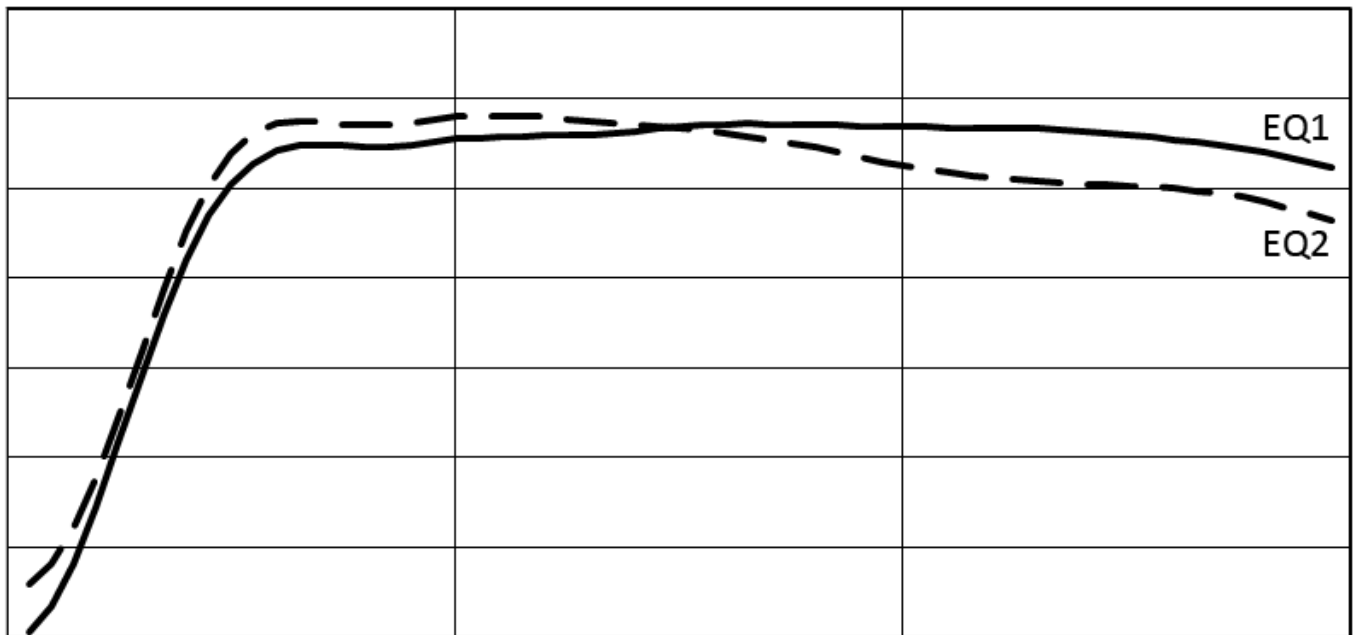
The remote control also provides two quick volume settings equivalent to 25% and 75% of the maximum volume. These volume shortcut buttons can be used to quickly jump to a low or high volume setting. For most signal sources such as computers, turntables, and smartphones, it is recommended that the volume is set no higher than 75% to avoid excessive background noise. Use a volume setting higher than 75% only if more playback volume is desired.

### 5.3 Setting EQ

The ON3 has two built-in EQ profiles and can be selected by pressing the corresponding EQ1 or EQ2 buttons on the remote control. The EQ profile can also be toggled between EQ1 and EQ2 by pressing and holding the side volume dial for 2 seconds. There is no indicator to show which EQ profile is currently configured. The two EQ profiles differs in the following manner:

**EQ1** is a flat EQ profile, with the speaker adjusted for a smooth and flat frequency response. This EQ profile provides the most accurate reproduction of music and is suitable for users who desire a flat frequency response.

**EQ2** provides a tilted frequency response, where the bass is enhanced and a gradual decrease in response towards higher frequencies, to a maximum of -3dB at 20kHz. This EQ profile presents a warm and relaxed sound signature and is suitable for listeners who find EQ1 too bright. Note that if the speakers are placed near the corner of a room, EQ2 profile may over emphasize the bass response. In this case, switching to EQ1 will provide a more balanced sound.



The above graph is an illustration of the difference between EQ1 and EQ2 in a typical listening room. The actual frequency response curve will depend on the characteristics of the room, speaker placement, and listener position. This graph is provided to demonstrate the EQ functionality and should not be interpreted as a frequency response graph for the speaker.

## 5.4 Remote Control Storage

When not in use, the remote control can be stored below the side volume dial. Embedded in this area is an invisible magnet that will hold the remote control in place.

## 6 Specification

### 6.1 General

Power Source Voltage: ..... 110-240VAC 50-60Hz

AC Adapter Output: ..... 18V/3A

Dimensions (Right Speaker): ..... 4.8" (W) x 9.3" (H) x 8.4" (D)  
123mm (W) x 235mm (H) x 213mm (D)

Dimensions (Left Speaker): ..... 4.5" (W) x 9.3" (H) x 7.9" (D)  
115mm (W) x 235mm (H) x 200mm (D)

Weight (Speakers Only): ..... 6.1lb (2.762kg)

### 6.2 Audio

RMS Power: ..... 24 Watts x 2

Frequency Response: ..... 50Hz ~ 20kHz (in-room)

Driver: ..... 3-Inch Full Range

Enclosure: ..... Front Ported

## 7 Micca Limited Warranty

Except where indicated differently, the following standard limited warranty is valid for Micca Branded products. Where differences and contradictions occur, warranty terms in product-specific description, listing, invoices, and receipts, those terms shall take precedence over the following standard terms.

The manufacturer warrants all Micca Branded products against defects in materials and workmanship for a limited period of 1 year, unless otherwise superseded by product-specific description, listing, invoices, or receipts. During the limited period, the manufacturer will repair or replace defective products at the manufacturer's sole option. Customer must pay for all return shipping costs during the limited period. The limited warranty period starts at the date of original purchase. This limited warranty applies only to purchases from authorized Micca retailers. This limited warranty is extended only to the original purchaser and is valid only to consumers in the same country as the authorized retailer from which the original purchase was made.

This limited warranty only covers failures due to defects in materials or workmanship that occur during normal use. It does not cover failures resulting from accident, fire, flood, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, modification, service by anyone other than the manufacturer, or damage that is attributable to Acts of God. It does not cover costs of transportation to the manufacturer or damage in transit. Customers should return defective products, freight prepaid and insured, to the manufacturer or authorized warranty service center only after receiving a Return Merchandise Authorization (RMA). Customers are required to provide a copy of the original sales invoice from an authorized retailer when making a claim against this limited warranty.

Within the term of this warranty, defective products sent to the manufacturer or authorized warranty center for warranty service will be assessed a fee to cover shipping and handling of the repaired or replacement product back to the customer. The fee amount depends on the product and covers labor/handling, packaging materials, and standard shipping.

Repair or replacement under the terms of this warranty does not extend the term of this warranty. Should a product prove to be defective in workmanship or material, the customer's sole remedies will be repair or replacement as provided under the terms of this warranty. If the defective product is discontinued the manufacturer may replace the product with an equivalent or superior product at its option. The limit of liability under this warranty is the original purchase price of the product. Any cost of re-installation is the sole responsibility of the customer and that cost shall not be the responsibility of the manufacturer. Under no circumstances shall the manufacturer or its retailers be liable for loss or damage, direct, consequential or incidental, arising out of the use of or inability to use the product. There are no express warranties other than described above.





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