

**NUX**

www.nuxaudio.com



**AXON 3**  
STUDIO REFERENCE MONITOR

## Owner's Manual

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**90<sub>w</sub>**  
RMS power

**DSP**  
High-resolution digital  
signal processing

**55<sub>Hz</sub>**  
Low-frequency extension  
down to 55Hz

**Bluetooth**

**Acoustic correction**

Copyright

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Accuracy

Whilst every effort has been made to ensure the accuracy and content of this manual, Cherub Technology Co., Ltd. makes no representations or warranties regarding the contents.

WARNING!-IMPORTANT SAFETY INSTRUCTIONS  
BEFORE CONNECTING, READ INSTRUCTIONS

WARNING

To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION


To reduce the risk of fire or electric shock, do not remove screws. No user-serviceable parts inside. Refer servicing to qualified service personnel.


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. The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

The lightning symbol within a triangle means "electrical caution!" It indicates the presence of information about operating voltage and potential risks of electrical shock.

The exclamation point within a triangle means "caution!" Please read the information next to all caution signs.

1. Use only the supplied power supply or power cord. If you are not sure of the type of power available, consult your dealer or local power company.
2. Do not place near heat sources, such as radiators, heat registers, or appliances which produce heat.
3. Guard against objects or liquids entering the enclosure.
4. Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to qualified service personnel.
5. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the 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.
6. The power supply cord should be unplugged when the unit is to be unused for long periods of time.
7. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and at the point where they exit from the apparatus.
8. Prolonged listening at high volume levels may cause irreparable hearing loss and/or damage. Always be sure to practice "safe listening".

Follow all instructions and heed all warnings  
**KEEP THESE INSTRUCTIONS!**

## Overview

Thank you for choosing the NUX AXON 3 studio reference monitor! Designed for those who demand precision and clarity, the AXON 3 is an ultra-compact stereo monitoring system that combines professional-quality performance with unmatched portability. Its bi-amplified design delivers ultra-accurate, flat, and detailed sound, featuring physics-defying low-frequency extension and impressive maximum SPL, all within a backpack-friendly size.

With 90W RMS power delivered by four amplifiers, the AXON 3 provides exceptional clarity and superior bass response through its 3/4-inch silk dome tweeters and 3-inch neodymium magnet woofers. The bass-ported drivers reach down to 55 Hz for deep, rich lows, while the silk dome tweeters ensure smooth, precise highs that bring out the finest details of your music. A high-resolution DSP processor enhances performance, offering remarkable accuracy and detail far beyond what you'd expect from monitors this compact.

The AXON 3's innovative magnetic footpads allow two adjustable tilt angles, decoupling the speakers from surfaces and ensuring optimal sound direction for any setup. The DSP, paired with a high-quality AD/DA converter, preserves signal integrity, while the built-in acoustic correction EQ features 8 factory presets for various environments and 2 customizable slots. Deep EQ adjustments can be made easily through PC software or a mobile app, enabling professional-grade reference monitoring in any setting.

Versatile connectivity options include USB DAC audio, Bluetooth streaming, 1/4" stereo inputs, RCA, and 1/8" AUX inputs, ensuring compatibility with a wide range of devices. The high-dynamic DAC connects directly to your computer via USB for premium Hi-Fi audio, while Bluetooth streaming allows seamless playback from your phone or laptop. Legacy devices like turntables and older music players are supported through RCA and AUX inputs.

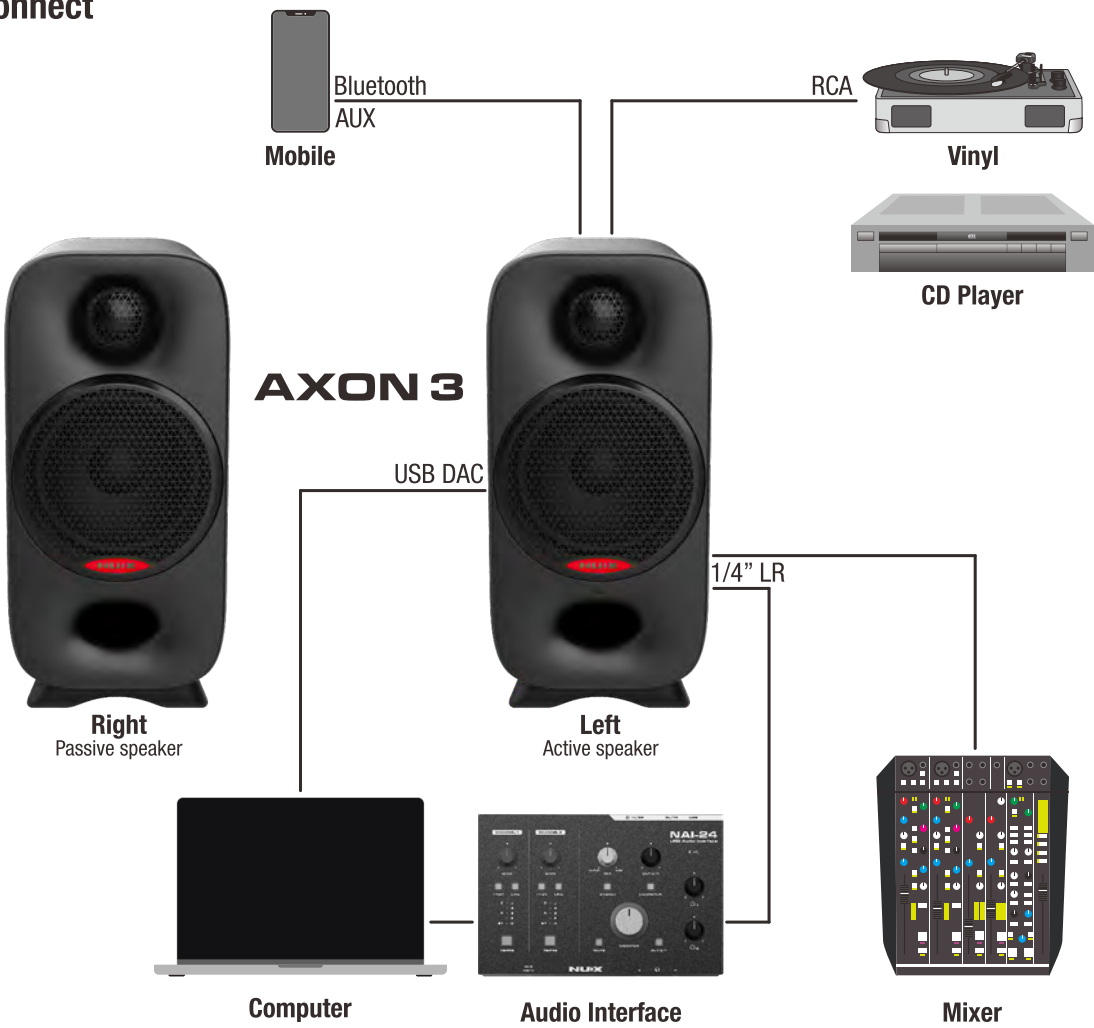
Whether you're mixing, mastering, composing, or simply enjoying music, the NUX AXON 3 delivers professional-grade audio performance in any scenario. Compact and portable, it's perfect for your studio, listening room, or packed in a backpack for your next adventure. Experience the perfect blend of precision, versatility, and portability with the NUX AXON 3!

## Features

- \* Professional-quality bi-amplified two-way monitor speakers delivering 90W RMS power for balanced performance.
- \* 3-inch neodymium magnet drivers for deep bass and 3/4-inch silk dome tweeters for smooth highs.
- \* Precise, flat, and detailed sound with low-frequency extension down to 55Hz.
- \* Backpack-friendly size with a 107dB max SPL.
- \* Onboard high-resolution digital signal processing for accurate sound.
- \* Includes AXON STUDIO software and APP for customizable acoustic correction.
- \* Adjustable magnetic footpads for tilt and enhanced sound precision..
- \* Streams music instantly over Bluetooth wireless.
- \* High-dynamic USB AUDIO DAC for premium Hi-Fi audio.
- \* RCA unbalanced stereo inputs for vinyl systems.
- \* Includes 4-pin stereo link cable and power supply.

# Control Panel & I/O Jacks

## Device Connect



# AXON 3



|   |                  |   |                 |    |         |    |                  |
|---|------------------|---|-----------------|----|---------|----|------------------|
| 1 | TWEETER          | 5 | VOLUME          | 9  | DC IN   | 13 | POWER BUTTON     |
| 2 | WOOFER           | 6 | BLUETOOTH       | 10 | AUX IN  | 14 | 4-PIN CONNECTOR  |
| 3 | LED              | 7 | USB-C           | 11 | RCA IN  | 15 | MAGNETIC FOOTPAD |
| 4 | BASS REFLEX PORT | 8 | 4-PIN CONNECTOR | 12 | LINE IN | 16 | STAND HOLE       |

TWEETER

3/4-inch silk dome tweeter delivers smooth, precise highs for accurate sound reproduction.

WOOFER

3-inch neodymium magnet drivers produce balanced mid and low-frequency response.

LED

The LED indicator shows the AXON 3's power status, Bluetooth status, and the active state of the Acoustic Correction EQ.

After powering on, the LED lights up GREEN. When the Bluetooth switch is turned on, the LED turns BLUE, allowing the device to be searched and connected via " NUX AXON 3." When the EQ correction feature in the AXON STUDIO software is enabled, the LED will flash to indicate that EQ is active. If the input signal is too high, the LED will turn RED to indicate clipping.

|                |                        |
|----------------|------------------------|
| Green          | Normal                 |
| Blue           | Bluetooth On           |
| Green flashing | Normal and EQ On       |
| Blue flashing  | Bluetooth On and EQ On |
| Red            | Clipping               |

BASS REFLEX PORT

The specially designed long-guided reflex port discharge the low frequency signals and enhance the overall bass response.

VOLUME

Adjust the output volume of the AXON 3.

BLUETOOTH

Press the button to toggle the Bluetooth audio and Mobile AXON STUDIO App connection on or off.

USB-C

The USB-C connection allows you to connect to a Windows or Mac computer to activate the USB Audio DAC and access the AXON STUDIO software. It can also connect to your mobile phone for Mobile DAC streaming via the appropriate USB cable and adaptor.

4-PIN CONNECTOR

4-pin stereo link for connecting to the passive right speaker. These are 4 pins connectors: in this way is it possible to carry the powered signal both for the HF driver and the LF driver

DC IN

DC power jack for connecting to the power adaptor, DC 24V 2.5A, negative outside.

 **Notes:** Before to connect/disconnect the DC input, make sure that the power switch is set to Off.

AUX IN

1/8” stereo input for connecting turntables, older music players, or other audio devices.

RCA IN

RCA inputs for connecting turntables, CD player or other audio devices.

LINE IN

1/4” inputs for connecting to audio interfaces, mixers or other audio devices.

POWER BUTTON

Toggle the power on or off.

4-PIN CONNECTOR

4-pin stereo link for connecting to the active left speaker.

MAGNETIC FOOTPAD

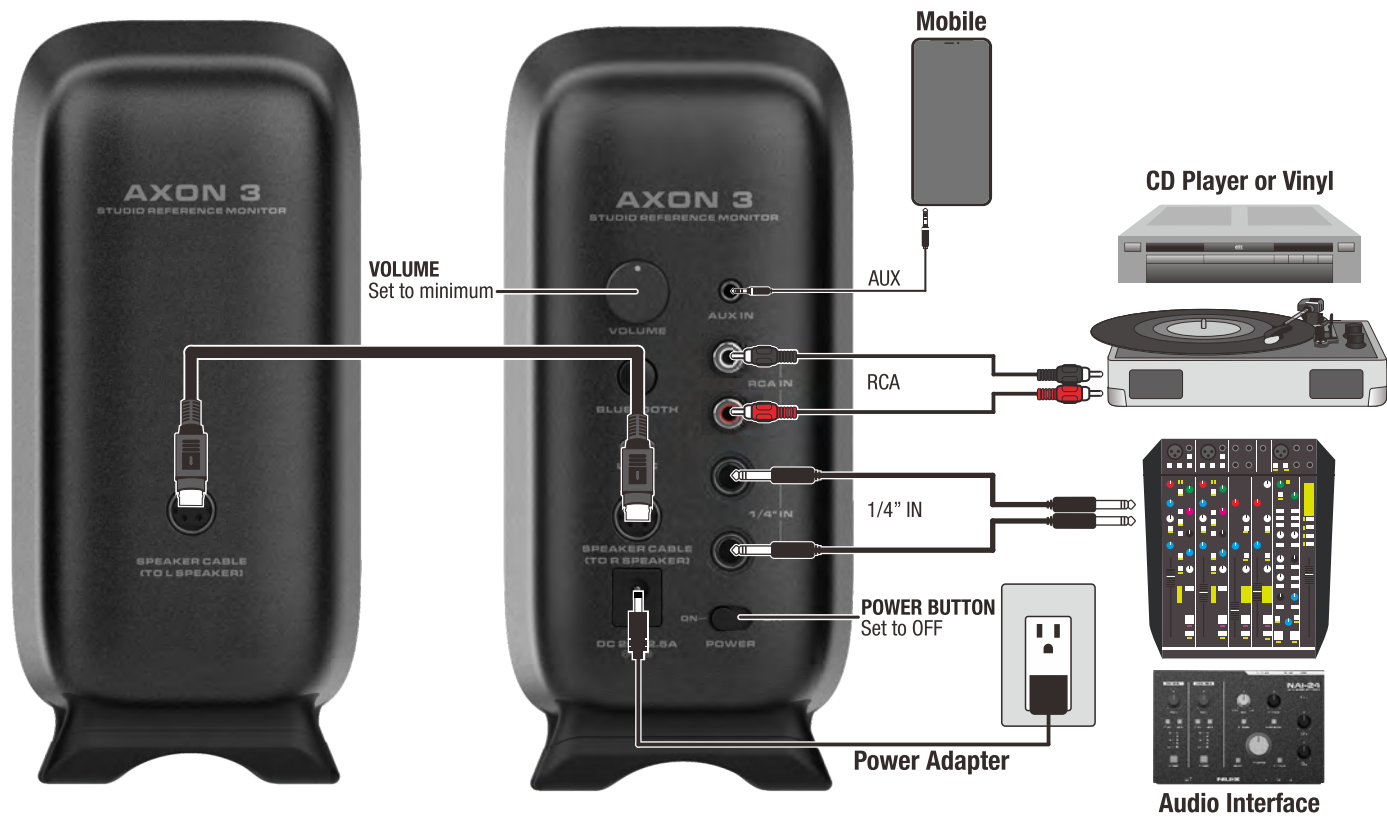
The specially designed magnetic footpads provide two adjustable tilt angles of +9° and -5°, decoupling the speakers from your desk or shelf and directing sound accurately to your ears.

STAND HOLE

3/8” female socket for securely mounting to a speaker stand.

# Installation and Setup

For the best performance, use high-quality audio cables and place the speakers securely on a solid surface. Keep in mind that the loudspeakers may need a few days of use to achieve their optimal sound quality.



## Step 1

Before connecting, ensure that the monitor's volume control is set to minimum and that the ON/OFF switch on the rear panel is set to OFF.

## Step 3

Connect the included power supply to the DC input.

## Step 2

Connect the speakers using the included 4-pin stereo link cable.

## Step 4

Connect your sound source to the left speaker using the 1/4" inputs, AUX input, or RCA inputs.

## Step 5

Turn on the power using the switch on the rear panel of the left speaker and adjust the volume to suit your environment.

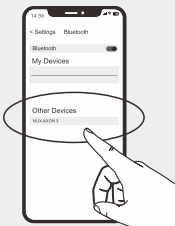


## Step 6

Press the BLUETOOTH button to activate the Bluetooth function for wireless music streaming. Alternatively, connect the included USB cable to the USB-C port on your computer or mobile phone (an adapter is required for iOS) for USB DAC audio streaming, which is recommended.



Bluetooth connection to mobile



Mobile



USB connection to computer





## Step 7

After connecting to the USB-C port on your computer, download the AXON STUDIO software for acoustic correction from [www.nuxaudio.com](http://www.nuxaudio.com). You can also use the AXON STUDIO app on your iOS or Android device after connecting via Bluetooth.



AXON STUDIO (PC)



AXON STUDIO (Mobile)

## Step 8

If needed adjust the speakers inclination with the magnetic footpads.



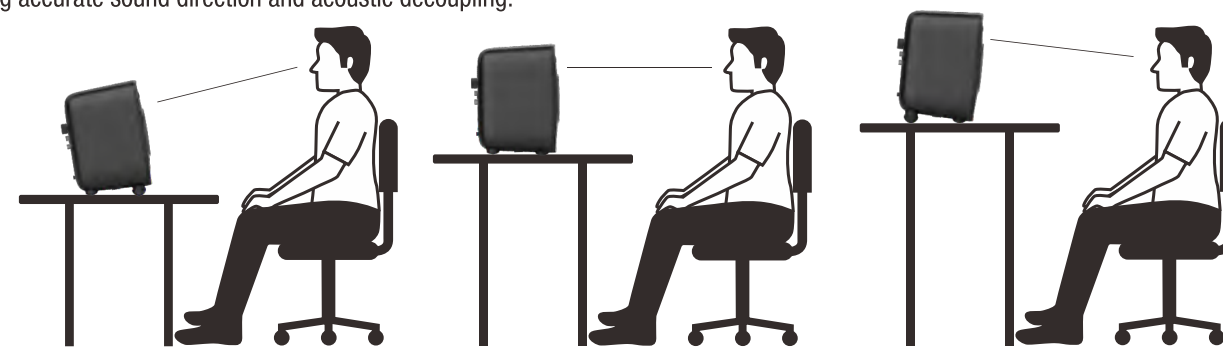
**! Note:** Before plugging in and turning on, remember the “last on, first off” rule for powered speakers. When powering up your system, ensure that all wires are connected, turn on your mixer/interface and any other outboard gear, and finally turn on your monitor. When powering down, switch off your monitor first, followed by your mixer/interface and outboard gear.

## Speaker Placement

To ensure optimal sound performance, position the NUX AXON 3 monitors vertically on a firm surface or stand, maintaining a clear line of sight to the speakers without any obstacles between them and your ears. Avoid placing them near vibrating objects, as these can interfere with sound clarity.

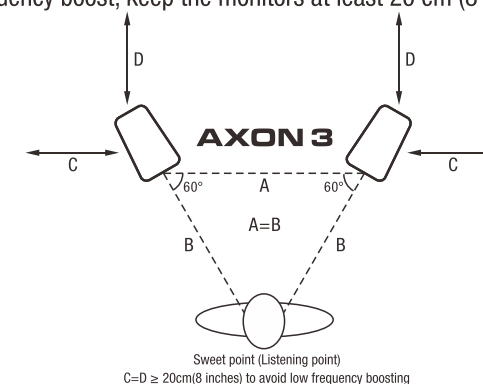
### Placement

For optimal sound, position the point between the woofer and tweeter at ear level. If the monitors are placed significantly higher or lower, adjust their angle to maintain proper alignment. Use the integrated rubber pads to tilt speakers upward when positioned below ear level, ensuring accurate sound direction and acoustic decoupling.



### Position

To achieve optimal stereo performance with the NUX AXON 3, position yourself at the peak of an equilateral triangle, with each monitor placed at the other two points. Ensure symmetry by placing each speaker equidistant from side walls, the ceiling, and the floor to balance reflections. For clear sound and to prevent low-frequency boost, keep the monitors at least 20 cm (8 inches) away from walls.



Room acoustics

Room acoustics are key to getting the best performance from your monitors. Even simple acoustic treatments can improve sound accuracy, creating a more precise and balanced listening experience. Pairing proper monitor placement with room treatment will greatly enhance the clarity and fidelity of your audio setup.

Stand mounting








The NUX AXON 3 Monitor features a 3/8” thread adapter on the bottom, allowing it to be mounted on any standard microphone stand for optimal height positioning. This setup minimizes reflections from desktops or shelves, improving frequency response and delivering a more accurate audio experience.

AXON STUDIO Software

You can visit the product page for AXON 3 at [www.nuxaudio.com](http://www.nuxaudio.com) to download AXON STUDIO. Use it to perform acoustic adjustments or customize your preferred EQ curve for AXON 3. Once the download is complete, connect AXON 3 to your computer using a USB cable and open AXON STUDIO to start using it.



AXON STUDIO (PC)

|   |   |
|---|---|
| ① | <b>“” ICON</b><br>Displays the version of AXON STUDIO and the firmware version of AXON 3.  |
| ② | <b>“” ICON</b><br>Indicates whether AXON 3 has successfully communicated with the computer or not.   |
| ③ | <b>PRESET SLOT</b><br>Displays the currently selected preset. A total of 10 preset slots are available: presets 01-08 are factory presets, while presets 09-10 are blank and can be customized. Presets can be selected using the dropdown menu on the right. If parameters are edited, “  ” will appear on the left, indicating that the changes have not been saved. |
| ④ | <b>“” ICON</b><br>Press to save the preset to the current slot.  |
| ⑤ | <b>“” ICON</b><br>Press to reset the current preset to the default parameters.   |
| ⑥ | <b>“” ICON</b><br>Press to enable or bypass the EQ effect in AXON STUDIO. When the EQ is enabled, the LED on AXON 3 will flash to indicate the EQ is active. In bypass mode, the LED will stay solid, indicating the EQ is disabled.   |
| ⑦ | <b>“” ICON</b><br>Press to reset the current preset to the default parameters.   |
| ⑧ | <b>FREQUENCY RESPONSE</b><br>As the parameters are adjusted in real time, the curve will change accordingly.  |
| ⑨ | <b>FILTER BUTTON</b><br>Press to enable or bypass the filter.   |
| ⑩ | <b>FREQ</b><br>Adjust the frequency of the filter.  |
| ⑪ | <b>Q</b><br>Adjust the Q of the filter. The Q value is calculated by dividing the center frequency by the affected frequency range. A higher Q value results in a narrower bandwidth, while a lower Q value results in a wider bandwidth.   |
| ⑫ | <b>GAIN</b><br>Adjust the gain of the filter, with a range of $\pm 10$ dB.  |

| No. | Preset        | Description   |
|-----|---------------|---|
| 1   | Desktop160Hz  | The desktop low frequency preset attenuates the bass frequencies around 160 Hz by 4 dB. This feature is designed to compensate for the boost often occurring at this frequency range when the loudspeaker is placed upon a meter bridge, table or similar reflective surface. |
| 2   | Bass Roll-OFF | Bass Roll-Off preset activates a -4 dB filter to the bass frequencies (100 Hz). This can be used for compensating excessively heavy bass reproduction typically caused by loudspeaker placement near room boundaries.   |
| 3   | Bass Tilt A   | Bass Tilt A preset offers a -4 dB filter for the bass response around 1 kHz, usually necessary when the loudspeakers are placed near room boundaries.   |
| 4   | Bass Tilt B   | Bass Tilt B preset offers a -6 dB filter for the bass response around 1 kHz, usually necessary when the loudspeakers are placed near room boundaries.   |
| 5   | Treble Tilt A | Treble Tilt preset attenuates the treble response above 4 kHz by 4 dB, which can be used for smothering down an excessively bright sounding system.   |
| 6   | HI-FI         | Adjust the preset to a more HI-FI type of sound, tuned according to the frequency preferences of the human ear.   |
| 7   | Movie         | Using this preset while watching movies will provide better results.  |
| 8   | Media         | This preset emphasizes the vocal range, making it ideal for media playback.   |

APP

The mobile app offers the same functionality as the desktop software. When using a computer is inconvenient, you can turn on the Bluetooth on AXON 3, pair it with your phone, and use the AXON STUDIO app for adjustments and control.

You can search for "AXON STUDIO" in the respective app store to download it.



AXON STUDIO (Mobile)



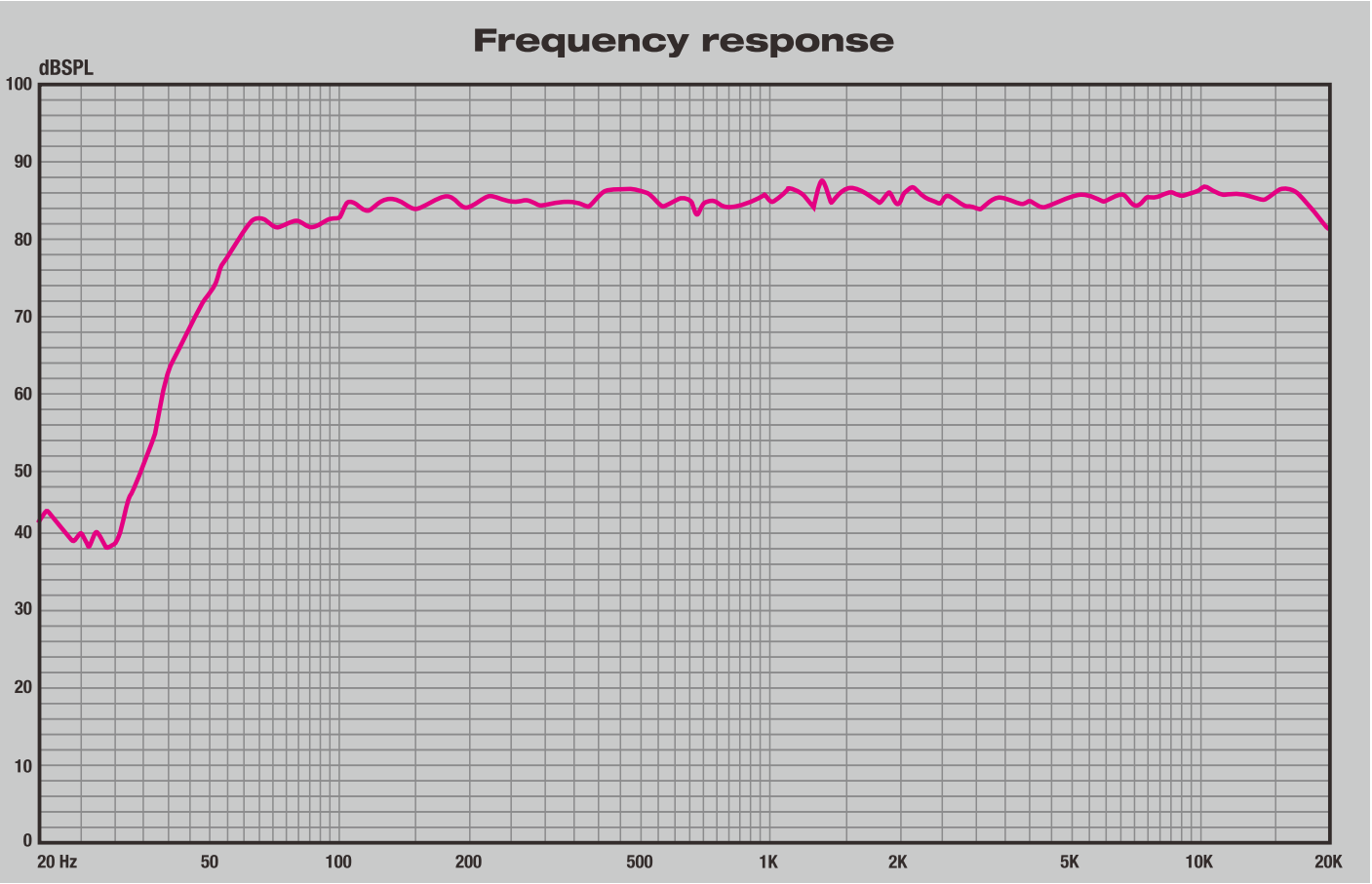
# Specifications

|                     |   |
|---------------------|---|
| Type                | Bi-amp 2-way powered reference studio monitor   |
| Crossover Frequency | 3kHz  |
| Frequency Responses | 55Hz - 20kHz (-3dB)   |
|                     | 45kHz - 22kHz (-10dB)   |
| Tweeter             | 3/4-inch silk dome  |
| Woofers             | 3-inch neodymium magnet   |
| Enclosure           | Specially designed long-guided bass-reflex type   |
| Material            | ABS   |
| Max. SPL            | 107dB   |
| Number of Amps      | 4   |
| Output Power        | Total 45W + 45W   |
|                     | LF 30W  |
|                     | HF 15W  |
| Input Impedance     | 10k ohms / -10dBu   |
| Amplifiers Type     | Class D   |
| Connectors          | 2 x 1/4" TS input   |
|                     | 2 x RCA unbalanced input  |
|                     | 1 x 1/8" stereo AUX input   |
|                     | 4-pin speakers connector  |
| Bluetooth           | Bluetooth 5.0<br>Compatible with AVRCP Profile V1.6, A2DP Profile V1.3 and HFP Profile V1.7 |
| USB DAC             | 48kHz   |
|                     | 24-bit  |
| Controls            | Volume control<br>Built-in DSP acoustic correction EQ, app/software controlled              |
| Dimensions          | 205mm(L) x 94mm(W) x 150mm(H) (Single)  |
| Weight              | 1.98kg  |

\*Specifications and features are subject to change without notice.

# Accessories

- Owner's manual
- 4-pin stereo link cable
- USB-C to USB-A Cable
- Power supply
- NUX sticker
- Magnetic footpad x2



Trouble shooting

| Symptom                                 | Possible cause  | Solution   |
|---|---|--|
| Power won't turn on / LED doesn't light | The power supply and DC input might not be connected properly.      | Please ensure that the power supply and DC input are securely connected.   |
|   | The power switch might not be turned on.                            | Turn the power switch ON. If the problem persists, contact your NUX dealer.  |
| No sound                                | One or more cables might not be connected properly.                 | Check that all cables are properly connected.  |
|   | The source equipment might not be supplying an audio signal.        | Make sure that the source equipment is functioning properly and delivering the required signal.  |
|   | The volume setting might be too low.                                | Adjust the output level setting of the source equipment, or use the VOLUME control to increase the output level.                                       |
| Noisy or distorted sound                | One or more cables might be corroded, shorted, or otherwise broken. | Replace faulty cable(s).   |
|   | The system might be picking up external noise.                      | Try changing the positions or layout of the cables.<br><br>Try changing the location of other electrical/electronic devices that are near the speakers |

WARNING

To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

FCC Warning

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- 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 device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This device must operate with a minimum distance of 20 cm between the radiator and user body.