

DEVINE

RX Series (RX-5A / RX-6A / RX-8A) Active Studio Monitor



User Manual

The information in this user manual is subject to change at any time without notice.

Version 1.0 Date of creation and author's initials:21-07-2020 RV Revision date and author's initials: -

Introduction

Thank you for purchasing this Devine RX Series active studio monitor. We advise that you read this user manual in its entirety before unpacking the contents of the box, so that you are familiar with all of the functionality that this product has to offer. Please be sure to check that all of the parts and accessories listed below under 'box contents' are included in the package. In the event that the product does not function properly, or if you have any issues while operating it, please remove the plug from the power socket and contact your retailer for assistance.

Box contents:

- Devine RX Series studio monitor (RX-5A / RX-6A / RX-8A)
- Power Cable IEC C13 to Schuko

Please inspect the device and the included accessories.

Should you discover that either the device or any of the included parts have been damaged or rendered defective while in transit, please contact your retailer directly.

Please note that the images included in this user manual serve illustrative purposes only and may differ slightly from the product received.

Contact:

Devine Pro Audio Products
Verrijn Stuartweg 18
4462 GE Goes
The Netherlands

*Please do not send any products to this correspondence address.
Should you wish to send in a product for repair or for a refund, please contact your dealer for an RMA
(Return Merchandise Authorisation).*

Safety Instructions



WARNING!



Keep this device away from moisture, water and rain to avoid the chance of electric shocks.

Everyone involved with the installation, operation and maintenance of this device must:

- Be qualified
- Be skilled
- Have read the instructions in this user manual
- Be sure that neither the device nor the included accessories are damaged. Should the device or the included accessories be damaged, please contact your dealer for more information.
- Ensure that the device is in good working condition and safe to operate. Please follow the advice and instructions as they are described in this user manual.

Damage caused by misuse and/or modifications made to the device are not covered by the warranty. This device does not contain any parts that need to be repaired or replaced by the user. Should maintenance or repairs be necessary, they must be handled by a qualified technician.

Important information regarding health and safety:

- Do not remove any labels or stickers from this device.
- Do not leave any cables lying around.
- The device should not be opened up, and any hardware or software that may be present should not be modified.
- To achieve optimal performance, inputs on this device should not be fed with a signal higher than necessary.
- The device should only be used indoors; contact with moisture, water and rain should always be avoided. Do not place any objects containing liquids on top of the device.
- Remove the device from any nearby flames or heat sources; do not place it near flammable fluids, gasses or objects.
- Disconnect this device from the power supply if it will not be used for a longer period of time, if maintenance is necessary, or if the device needs to be cleaned.
- Do not pull on the cable to remove a connector, as this could cause damage.
- Do not use any cables other than the ones described in this manual. Do not use defective cables. Please contact your dealer if the included or necessary cables do not function properly with this device.
- Only use this device with power from a grounded power source.
- In the event that the device is exposed to extreme temperature changes (e.g. transported through a cold outdoor environment into a warm indoor environment), it should not be turned on until it has reached room temperature. This is necessary to prevent moisture from forming in the device, which could lead to electric shocks.

Guidelines and operation of this device:

- This device is intended for indoor use by adults.
- This device is not suitable for use by children, and should always be operated by an adult.
- This device should only be used in a suitable environment where no damage to the device can occur. Do not use the device in moist or dusty environments such as:
 - indoor swimming pools where chlorine is used
 - beaches where there is sand and salt
 - outdoors
 - indoors in spaces where intense heat sources are present, or where it reaches temperature levels that would be considered uncomfortable for a person
- Avoid impacts and collisions during use and transport. Do not transport the device while it is in use. Avoid using excessive force when installing and operating the device.
- The user should become familiar with the functions of this device before using it.
- The user should be able to stop the device's power supply in case of emergencies. At least one of the following should therefore be accessible at all times:
 - the power cable connector on the back of the unit
 - the power socket the cable is plugged in to

The information in this user manual is subject to change at any time without notice.

Version 1.0 Date of creation and author's initials:21-07-2020 RV Revision date and author's initials: -

- the power socket switch or extension cable switch
- Should the device not be used in the manner described in this user manual, damages or even injuries could occur. Devine cannot be held responsible for any injuries or damages that occur as a result of improper use of this product.




Storage and transport:

- This product is designed for mobile use. It can be transported separately as long as it's well-protected against shocks and collisions.
- This device is not designed for permanent (24/7) use. The expected lifespan of the device will not be affected by occasionally turning the device off. Disconnect the device or turn off the power when it is not actively in use.
- If the device will not be used for a longer period of time, it should be disconnected and stored in a dust-free environment.
- Do not expose the device to extreme temperature differences.

Housing

- Inspect the device's housing frequently, and always just before use. Avoid operating the device if there are large dents or cracks, or if screws are missing. Do not use the device if the housing is not in good condition. Contact your dealer or a qualified technician if you are unsure about the state of the device.
 - Check the device and the screws for corrosion. Corrosion must not be present on this device. Contact your dealer or a qualified technician if you find any corrosion on the screws.
- Every power and signal connector should be securely mounted. Do not use the device if the connectors are not secure.
- Avoid dust and dirt build-up. Clean the device once a month by disconnecting it from the power supply and wiping it down with a dry or slightly moist cloth. If the device is used frequently, the cleaning intervals should increase.

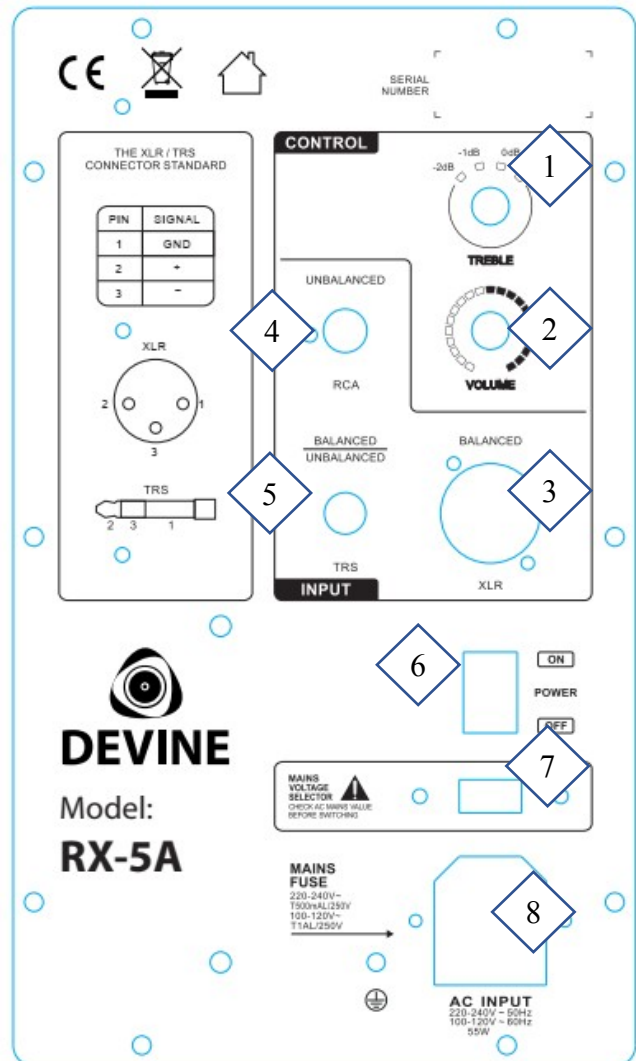
Symbol explanation:

	<p>WEEE: Ensure that this device is disposed of properly. This product falls under the WEEE (Waste Electrical and Electronic Equipment) directive. The requirements of this directive apply to all manufacturers and producers of electronic devices in the EU. Do not throw this product away with regular rubbish. Please contact your local authority for more information about how to recycle and dispose of these products in your region. By recycling this product in the proper manner, we can work together to ensure that we can continue to enjoy these kinds of products and still protect the environment as much as possible from pollution.</p>
	<p>CE: The CE logo indicates that this product meets the European norms and requirements to which it must legally conform.</p>
	<p>Only suitable for indoor use: this product was only designed for indoor use. The maximum environmental temperature must not exceed 40 degrees Celsius (104 degrees Fahrenheit).</p>

Overview of the Device

1. HF trim (-2 dB / -1 dB / 0 dB / +1 dB)
2. Volume control
3. Balanced 3-pin XLR input
4. Unbalanced mono RCA/cinch input
5. (Un)balanced TRS jack input
6. On/off switch
7. Voltage switch (**default 230V**)
8. IEC C14 Power input with fuse holder

Please note: The image shows the back panel of the Devine RX-5A.



Using the Studio Monitor

The Devine RX Series studio monitors include three models available in black and white. These are the ideal monitors for producers looking for a balanced and neutral sound so they can properly assess their mixes. The RX Series includes 5", 6" and 8" models, referring to the size of the built-in woofer. The differences in size and matching power capacities make sure the perfect monitor can be selected for any preferred style of music. The 5" RX-5A monitors are ideal as compact reference speakers for smaller studios, while the 8" RX-8As are designed for larger rooms and offer enhanced bass reproduction thanks to the bigger woofer.

The soft-dome tweeter and woofer ensure a balanced reference sound intended to simulate smaller 2.0 speaker systems, much like the ones your listeners have, either next to their computer or built into their television.

Each model can be expanded with a separately-available subwoofer to simulate 2.1 set-ups with a bigger subwoofer, much like sound-bars, Hi-Fi systems and computer-related audio gear.

Warning Before Use

The Devine RX studio monitors are capable of producing volume levels that can cause temporary or permanent hearing damage. Use these units with care and keep the volume at a reasonable level when possible. The volume should ideally be set to a comfortable level when listening to music.

Devine cannot be held liable for any injuries or damage that may result from the use of this product.

Connecting A Set of Monitors

The Devine RX studio monitors can be set up on any flat and stable surface, usually next to your computer or laptop with one speaker placed on the left side and the other on the right.

After the speakers have been positioned as preferred, plug the power cable into your monitors, then connect up any correct signal cable, depending on the audio source. If you don't have the right cables, you can contact your retailer for advise.

Connecting an audio source is done using ONE of the possible connections. In this case, that includes balanced 3-pin XLR, which is the recommended option because the plug is unable to rotate inside the socket and doesn't short-circuit when inserted. Naturally, the other inputs can be used as an alternative. It is nonetheless advisable to work with balanced signals as much as possible. These are less sensitive to signal interference caused by external factors.

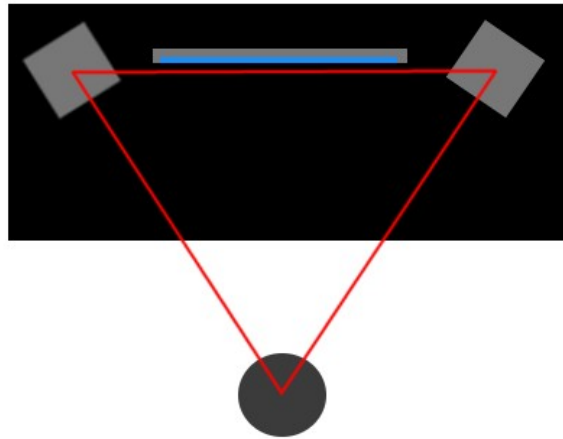
Important: Always make sure to use only ONE connection at a time, so either XLR, the TRS jacks OR the RCA inputs.

General Use

Placement and Positioning

Studio monitors are highly directionally sensitive speakers that come with a so-called 'sweet-spot' in terms of sound dispersion, especially when it comes to the high frequencies. This is the position where the monitor sounds best relative to where you sit and will give you the most accurate sound reproduction.

The ideal set-up can be achieved by creating an equilateral triangle where you are the third point. If your set-up allows for it, make sure each corner covers a 60° angle. The distance between each speaker and the listener should be approximately 1 metre for near-field studio monitors like the Devine RX Series models.

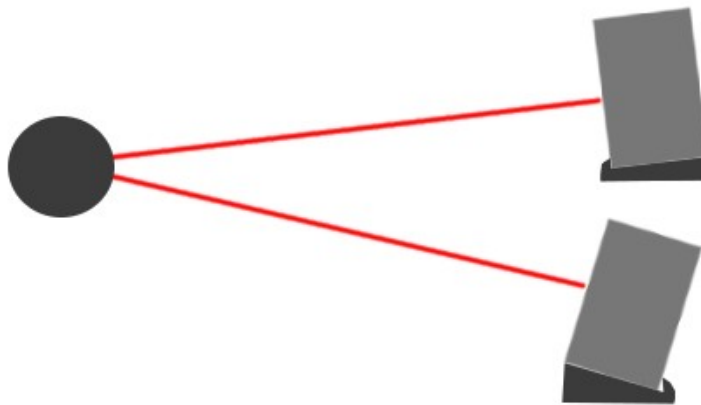


Be aware that if your monitors are placed on a desk, they may not be positioned at the right height (ear height).

Isolating and the Right Height Placement

Once your monitors are in the right place, it's important to ensure that they are also positioned at the right height. Monitors placed on a desk are rarely positioned at the right height for you to be able to experience the 'sweet spot', as they are usually not directed towards your ears.

In the most ideal scenario, you'll use studio monitor stands to ensure your monitors are at the perfect height. When you're sitting at your desk, the woofer and tweeter should be at the same height as your ears. If this setup simply isn't possible, you should consider investing in special isolation pads which can be placed under your monitors and adjusted to the perfect angle. In this case, your monitors can be angled towards your ears. Ideally, you'll be able to look directly at the status LED or speaker components.



In addition, using isolation pads gives you the added advantage of preventing vibrations from the woofer being transferred to the surface they're standing on, resulting in a better, more neutral sound overall without any interference.

Positioning in Relation to Walls

These studio monitors have a bass port on the front, which means that the low frequencies reproduced by the woofer are delivered with more expression and presence in the overall sound. For an optimal sound, it's important that the studio monitors are placed close to a wall for improved bass spread via reflections. This will give you noticeably better results and a fuller sound compared to a set-up in an open space.

It's recommended to place the speakers roughly 30 to 100 cm away from the wall. Experiment with the positioning to get optimal results.

The information in this user manual is subject to change at any time without notice.

Version 1.0 Date of creation and author's initials:21-07-2020 RV Revision date and author's initials: -

It's not recommended to place one of the speakers in the corner of the room as this might create an unbalanced overall sound. If corner placement is the only possibility, try to use the corner to create a symmetrical configuration with a corner desk and have the bass ports directed at one of the walls.

The Long or Short Wall in a Room

In a rectangular room, it's recommended to place the monitors next to one of the two shorter walls. This way, the sound is better spread throughout the space and any reflections are broken up and diminished as much as possible. This ensures that the sound that's directly aimed at your ears is dominant and that the rest is only barely (or subconsciously) heard.

If the room happens to be so small that the opposite wall is between 1 to 2 metres away from your listening position, any problems with the acoustics might be solved by using acoustic absorbers that reduce any sound reflections behind you. Since the placement of acoustic treatment requires a certain level of knowledge and expertise, it's recommended to contact a specialist for optimal results. The type of acoustic treatment differs depending on the problem or purpose.

Other Tips for Monitor Placement

Take the time to find the optimal position for the monitors. A couple of centimetres can mean a world of difference in terms of sound quality, considering reflections can easily reinforce or dampen certain frequencies.

Audio Technology and Set-Up

Sound Sources, Interface & DAC

Once your studio monitors are in the right position, it's important to use a good-quality sound source for the best possible results. This includes audio files that, ideally, should be the best-quality original material and not converted files.

The hardware used to play audio should also be the best quality possible. When playing files via a computer (PC or laptop) or a mobile device (smartphone, recorder or tablet), it's a good idea to use an audio interface or DAC (Digital to Analogue Converter) that will convert digital files into an analogue signal while retaining as much of the original quality as possible. Built-in sound cards, especially cheaper models and those found in mobile devices tend to have a negative influence on the sound.

The audio interface or DAC you use should preferably have a relatively high output with plenty of headroom to prevent problems with distortion and ensure the audio signal reaches your monitors at a sufficient volume without the need for much extra amplification. Any extra amplification that's required can have a negative influence on the audio signal.

Cables

The type of cables used can also influence the quality of the sound. For best results, use good-quality balanced signal cables with TRS jack plugs or XLR connectors. Using unbalanced cables is also possible but this can have a negative influence on the volume of the incoming signal and makes it more sensitive to interference.

In general, studio and recording equipment is always fitted with balanced outputs. Consumer products like smartphones and laptops tend to have unbalanced outputs.

Making Volume Adjustments

These Devine studio monitors are equipped with a volume control that can regulate the incoming signal if necessary. It is designed to be used to adjust the monitors, not to correct issues with the incoming signal. When using devices like a smartphone or laptop, the incoming signal may be relatively weak. In this case, a DAC or a device that is capable of boosting the signal, like an audio interface, a mixer or a DI box should be used.

Ideally, you'll be able to control the volume of the signal your DAC or interface sends to your monitors. This

The information in this user manual is subject to change at any time without notice.

Version 1.0 Date of creation and author's initials:21-07-2020 RV Revision date and author's initials: -

can also be software-controlled like the volume control on your computer, laptop or mobile device, for instance. It could also be a separate passive or active volume controller that regulates the level of the analogue signal. These often have simple 'dim' or 'mute' buttons that allow you to easily halve the sound or mute it entirely. These features are handy when you need to discuss the sound with someone while listening, for example. As such, no volume control has been fitted to the front of the RX monitors.

HF Trim

To match the performance of the speakers, the Devine RX Series monitors feature an HF trim control for incremental adjustments of the tweeter level. If your monitors are close to a wall and produce unwanted and annoying low frequencies, this can be compensated for with the HF trim.

Status LED

The monitors are equipped with a status LED on the front (behind the Devine logo) that lights up when they are powered on.

Overload and security

There is no overload indicator on this monitor because it is not designed to be used for listening at high volume levels, especially for longer periods of time. Pay careful attention when listening to the monitors to determine whether they are set at a suitable volume level. If there is any distortion and/or crackling noises, lower the volume immediately to prevent damaging any components.

These monitors are not designed to perform continually at a high volume and should not be used for parties or events. They should be used for their intended purpose only, which is listening to audio at a comfortable volume. This can include recreational activities like listening to background music or amplifying the sound of your television.

Devine cannot be held responsible for any components damaged due to overload and as such, any instance of damage caused by overload is not covered under warranty.

Component and housing protection

These monitors are not designed for mobile use. If they need to be transported, they should be placed in the original packaging or in a suitable flight case with a foam inlay of sufficient thickness to protect them against damage.

The monitors are not impact-resistant because they are designed to be placed in a permanent spot in your studio and because any metal or plastic protective grilles can negatively influence the sound. Ensure that the woofer and tweeter of both monitors remain untouched to prevent any damage.

The bass port should be kept empty at all times and not used for storage.

Devine cannot be held responsible for any dented woofers or tweeters and as such, any instance of dented woofers or tweeters is not covered under warranty.

Studio Monitor Troubleshooting

If you have a problem with your studio monitors, please consult the troubleshooting section for possible solutions. If, after consulting this section, the problem remains unresolved, please contact your retailer for more information and/or help.

This troubleshooting section contains information on how to solve the most common studio monitor problems, but it does not and cannot cover every eventuality. It is possible that you won't find your problem, cause and solution in this section due to differences between products.

Problem	Possible cause	Solution
Monitors won't turn on	Cables are not (properly) connected	Check the cable connections between both monitors and the power socket
	Inactive power socket	Check that the socket is turned on and if using an extension cable with a switch, check that this is also turned on.
	Defective fuse	Check the fuse next to the monitor's power connector. If the fuse is blown, replace it with the same type of fuse.
Volume is too low	Output volume from the source is too low	Check the volume on the source device and turn it up if possible. It should not be necessary to turn the volume level on the monitors all the way up to bring the sound up to an acceptable level. If changing the volume on the source device is not possible, a good audio interface or preamplifier should also be used.
	Gain control is too low	Turn up the gain control on the monitor
Certain frequencies are too low or too high	The monitor has not been placed in an optimal position	Experiment with the positioning of the monitor. If not placed correctly this can result in certain frequencies being amplified or dampened.
	EQ or sound transducers	Some computers have built-in sound controls with equalizers or sound presets. These should not be used as they will negatively influence your studio monitor's neutral sound.
Audible interference	Using unprotected cables	Using unbalanced cables may cause interference. Use balanced cables whenever possible. If this is not possible, using a DI box directly after the output will balance the signal.
	High gain and weak signal	It's possible that there may be interference in the signal that is relatively loud compared to the audio signal itself. This can happen with a weak signal from the source which is then amplified by the monitor. Ensure that the signal from the source is of sufficient strength so that less amplification is needed.
Interference in signal	Unearthed power sockets	Ensure that your monitors are always connected using the included cable and that an earthed power socket is used.
	Equipment in the same power group causing interference	Equipment including fridges, freezers and microwave ovens in the same power group are capable of causing interference. Try to

The information in this user manual is subject to change at any time without notice.

Version 1.0 Date of creation and author's initials:21-07-2020 RV Revision date and author's initials: -

Audible resonance or vibrations	Speakers not isolated from surfaces	<p>connect all of your studio equipment to the same power group with no other devices attached. If this is not possible, experiment by connecting your devices to different power groups to see if that solves the interference problem.</p> <p>When your speaker is placed on a surface like a desk or a monitor stand, it should be isolated to prevent audible resonance or vibrations. Monitor isolation pads are the best solution for this.</p>
Distorted, clipping, crackling sound	<p>Source device is transferring a distorted signal</p> <p>Volume control is too loud</p> <p>Woofers or tweeters are defective</p>	<p>Check if any of the connected source devices is transferring a distorted signal and turn down the volume on the device if necessary.</p> <p>Turn the volume down</p> <p>If a studio monitor is exposed to a loud, distorted, or clipped signal for a longer period of time, this can cause permanent damage to its internal components. If you suspect that the woofer or tweeter is damaged, contact your local retailer for assistance.</p>

Specifications

- Active studio monitor
- Built-in amplifier module
- Two-way bass reflex system
- Sturdy woofer and soft-dome tweeter
- Solid wooden housing
- Black or white finish
- Various connection possibilities (RCA, 6.35mm TRS jack, XLR)
- HF trim control
- Integrated bass port on the front
- Backlit Devine logo (status-indicator)
- Built-in overload protection

Model	RX-5A	RX-6A	RX-8A
Tweeter	1x 1" silk dome tweeter		
Woofer	1x 5.5" woofer	1x 6.5" woofer	1x 8" woofer
Woofer specifications	<ul style="list-style-type: none"> - high-quality, resilient, glass-fibre-mixed, sandwich-like, fibre-rich composite cone - advanced rubber surround with high elasticity - high-temperature resistant voice-coil 		
Frequency range	55 Hz – 20 kHz (+/- 3 dB)	50 Hz – 20 kHz (+/- 3 dB)	45 Hz – 20 kHz (+/- 3 dB)
Total power capacity amp	55 W	75 W	110 W
Power (high frequencies)	20 W	25 W	30 W
Power (low frequencies)	35 W	50 W	80 W
Crossover frequency	2100 Hz	1900 Hz	1800 Hz
S/R ratio	Larger than or equal to 85 dB		
Input impedance	20 kOhm		
Input sensitivity	-2 dBu		
Net dimensions	261 x 187 x 278 mm	272 x 226 x 320 mm	313 x 268 x 383 mm
Boxed dimensions	350 x 270 x 385 mm	370 x 320 x 428 mm	435 x 380 x 490 mm
Net weight	7.2 kg	9.6 kg	12.6 kg

The information in this user manual is subject to change at any time without notice.

Version 1.0 Date of creation and author's initials:21-07-2020 RV Revision date and author's initials: -