Heritage Audio R.A.M 100 Reference Audio Monitoring System 1000 User Manual

REFERENCE AUDIO MONITORING SYSTEM 1000
USER'S MANUAL

Contents

INTRODUCTION

Thank you for choosing the R.A.M 1000. After many years designing monitor controllers, Heritage Audio is proud to present the R.A.M System 1000. Combining several features from our top-of-the-line units with the robust build and inviting appearance of the rest of our R.A.M series units, the new addition is very attractive. And at a very affordable price that even the most modest studios will be able to justify.

Designed with the modern musician/producer in mind, the R.A.M 1000 includes a few new features to keep your studio up to date. Bluetooth reception has become just about essential in any modern-day studio environment and is easily used here. Play along with your mixes and rehearse them until you are content…then with a simple push of a button you can send your instrument on to your DAW interface to record the track. Taking control of your home studio or control room couldn't be easier.

Designed with the modern musician/producer in mind, the R.A.M 1000

Peter Rodriguez

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1 R.A.M 1000.
1 USB-C to USB-C power cable.
1 USB-C to USB power cable.
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DESCRIPTION

With the RAM1000 you'll have everything you need to control what you hear right at your fingertips. The new addition to our family of monitor controllers could not be easier to navigate. Things are kept simple to make sure they don´t get in the way of your creativity.

Operation is intuitive with 3 selectable input buttons to the left and 2 output buttons to the right with a huge, beautiful Marconi type knob dead center to make sure you always control exactly what you want. The addition of the ubiquitous MUTE, DIM and MONO keep those options within reach. There has also been a high quality

headphone output included for when you need to make a critical listening decision that only headphone monitor can offer.

Operation is intuitive with 3 selectable input buttons to the left and 2 output buttons to the right with a Bluetooth has basically become a standard within studios around the world in the last few years.

Therefore, it was an easy call to make sure that the RAM1000 was also prepared to provide it as well as including all latest CODEC options to insure the highest quality transmission possible.

Bluetooth has basically become a standard within studios around the world in the last few years.

There is even an option to switch the routing from OUTPUT 1 to your soundcard/interface for recording…. This will make it easy to plug in an instrument to rehearse along to a mix and when ready, simply route it on to your recording device. Couldn´t be easier…
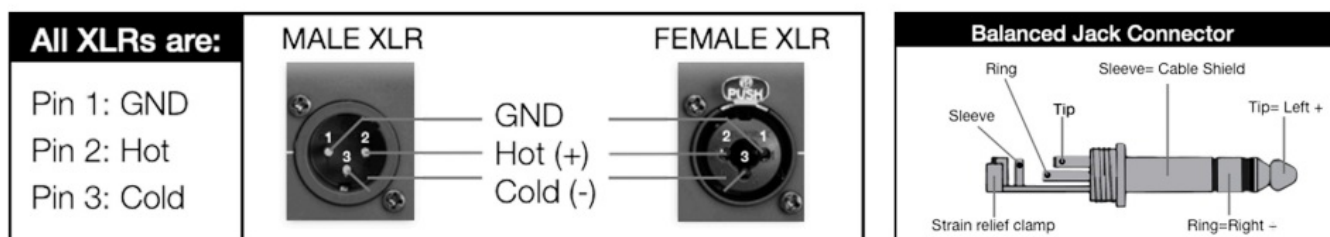

GETTING STARTED

1. INPUT LEVEL: LED Input Level Meter.

2. BLUETHOOTH ANTENNA: Bluetooth wireless input (APTX®, AAC, SBC).

3. LED SYNC INDICATOR: Confirms SYNC status.

4. INPUT BLUETOOTH: Select Bluetooth input.

5. INPUTS: Selects either/or both Input 1 or Input 2.

6. LED CODEC INDICATOR: Shows the CODEC in use and confirms connection.

7. RESET: Resets the Bluetooth sync (Hold for 10 sec).

8. MONO SWITCH: Collapses the signal from Stereo to Mono.

9. MASTER LEVEL: Steps through the volume range in 3 dB increments.

10. MUTE SWITCH: Completely eliminates the output.

11. DIM SWITCH: Reduces output by -20 dB.

12. OUTPUTS: Selects either/or both Output 1 or Output 2.

13. PHONES LEVEL: Headphone Volume adjustment.

1. OUTPUTS XLR: Male XLR outputs L&R.
2. HEADPHONES: Stereo out Headphones 1/4″ TRS.
3. INPUTS MULTI: Female XLR & 1/4″ TRS Balanced jacks L&R.
4. SWITCH REC/MON: Selects routing control for OUTPUTS 1.
5. OUTPUTS: 1/4″ TRS Balanced jacks L&R.
6. POWER: USB-C Power connector of 5V / 5 Watts.
7. GROUNDING SCREW: To connect to earth.
8. INPUTS: 1/4″ TRS Balanced jacks L&R.
9. LEFT INPUT: Connect to LEFT Input only for MONO use.
10. INPUT LEVEL SWITCH: Change Input Level between +4 dBu/-10 dBV.

BLUETOOTH SYNCHRONIZING

Synchronizing your mobile device with the R.A.M 1000 is as simple as pairing any other Bluetooth device. It will appear as "HERITAGE R.A.M 1000" on your Bluetooth devices' list.
YouTube hosts nice tutorials about how to do so in both Android and iOS if you need help.
The R.A.M 1000 automatically selects the best Codec supported by your mobile device, so no configuration is needed.
Whenever a device is paired with the R.A.M 1000, the "SYNC" LED will light.
Active streaming is confirmed by corresponding Codec LED being turned on.
Please note Codec IS NOT configurable. It is automatically chosen from the best available option on your mobile device.

Devices can only be paired one at a time. Whenever a different device needs to be paired, Bluetooth needs to be reset, so RESET button must be pressed down and hold for 10 seconds after connecting a new Bluetooth mobile device.

LET'S GET TECHNICAL

INPUTS: The R.A.M SYSTEM 1000 has two pairs of +4 dBu balanced analog inputs with one also being -10 dBV selectable. It also includes a very convenient Bluetooth option as an additional input. The Bluetooth input will automatically choose the best CODEC available for your device to insure the highest quality at all times. A simple RESET button will allow you to change the input source for Bluetooth at any time. All inputs are simultaneusly selectable.

OUTPUTS: The R.A.M SYSTEM 1000 has two stereo outputs, available on both balanced XLR and ¼″ jack connections. All inputs are also simultaneusly selectable.

HEADPHONE OUTPUT: Usually a weak link even in the most expensive units, the R.A.M SYSTEM 1000 employs a very high current driver in a diamond buffer configuration which is able to drive all headphones to very high levels without any coloration or noise.

THE REC/MON FUNCTION: There is an extra button on the back just below Output 1 that allows you to choose between two ways of operation. One way, with the button pushed in (MON) or MONITOR mode, Output 1 will simply act as normal, just like the other Output, number 2, and will follow any changes made to the volume knob. But, if you leave the button released (REC) it will be in RECORD mode and the main red volume knob will have no affect on its output level. This is very convenient if you want to send a signal on to your interface for recording while monitoring the playback of your DAW, allowing you to adjust the appropriate level between them.
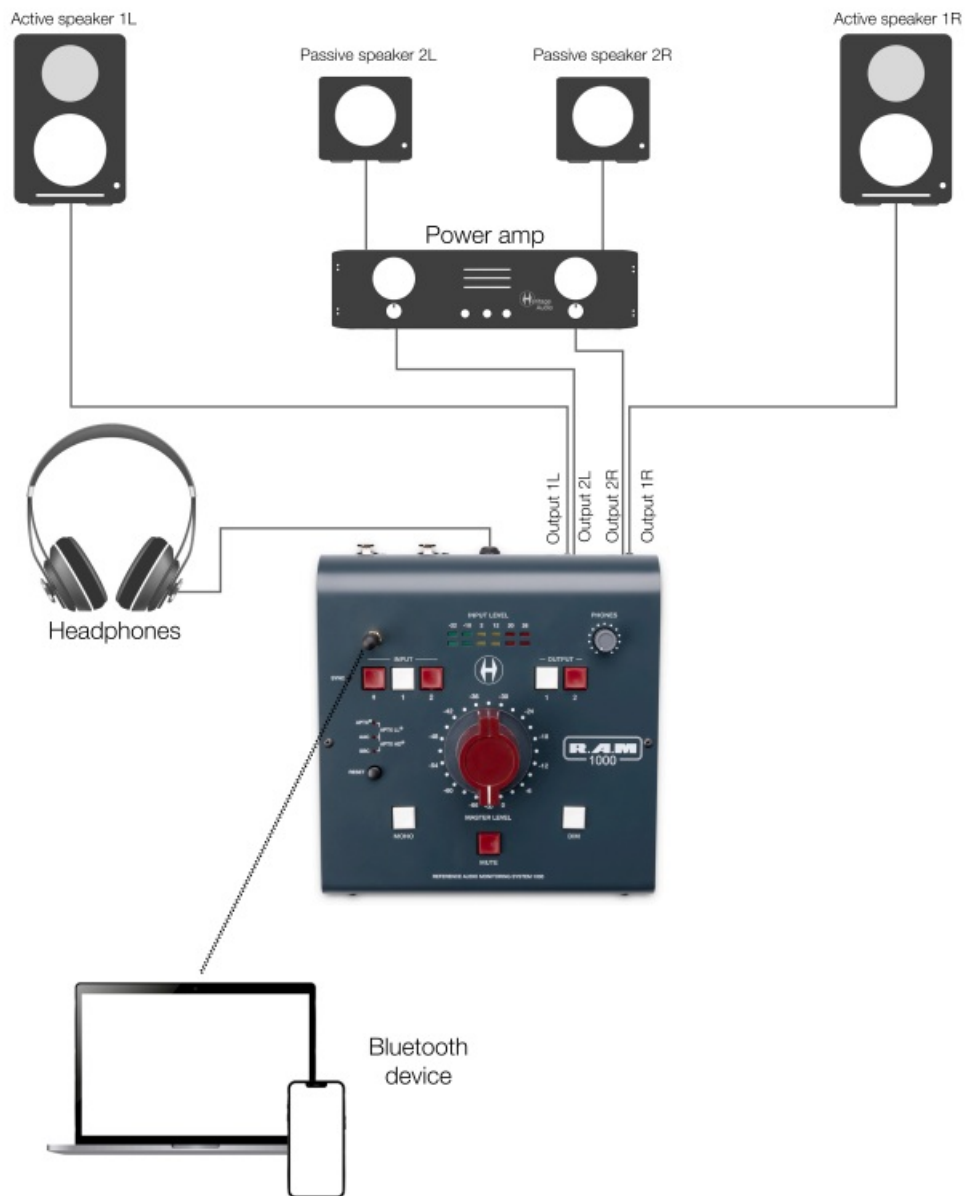
MASTER LEVEL CONTROL KNOB: The R.A.M SYSTEM 1000 is fitted with a 64-step, gold-plated relay ladder attenuation for master level control — a feature usually found only on high-end large-format consoles.

It gives an exceptional resolution of 64 dB of attenuation in 3 dB steps. Keeping active electronics to a minimum, the attenuator is buffered for negligible coloration and no noise.
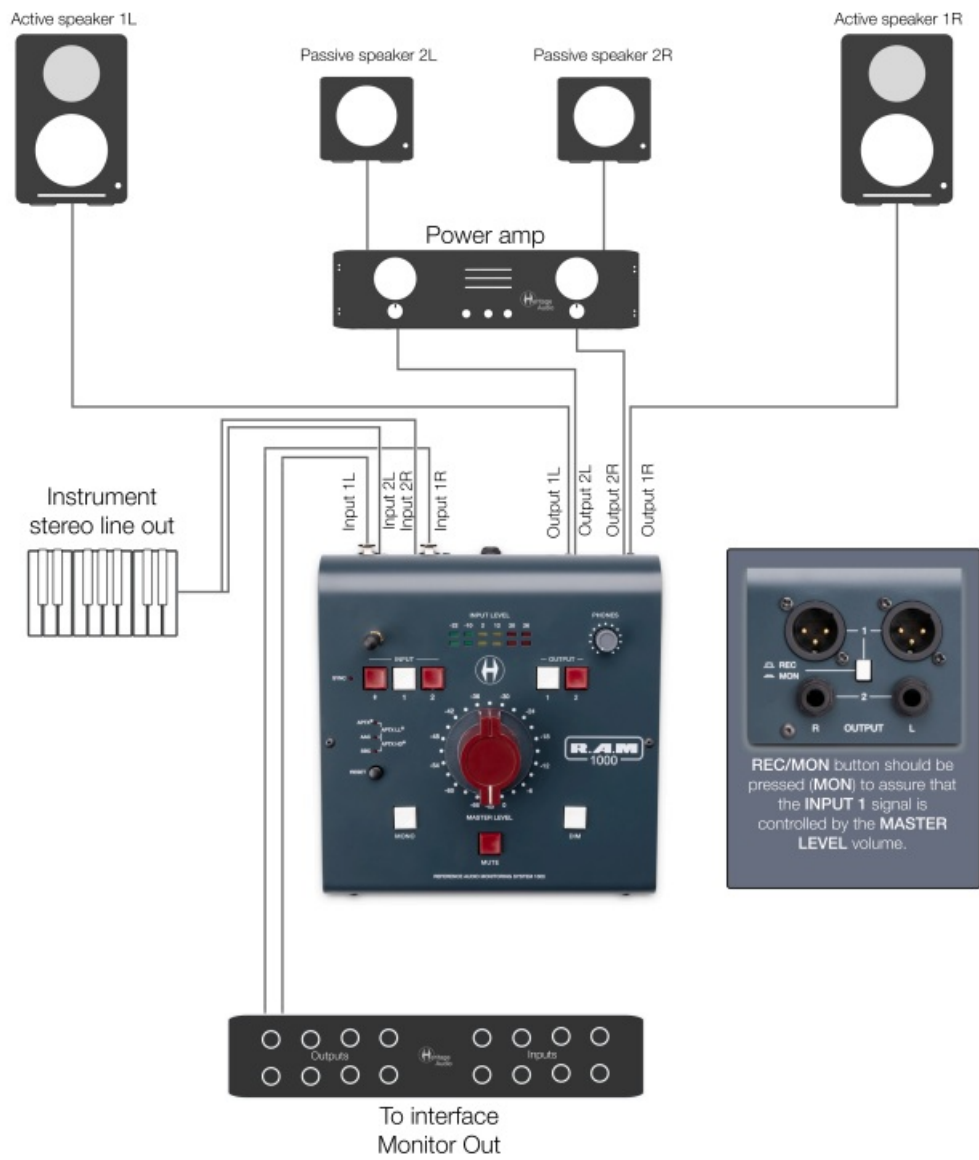
The DIM, a minus 20 dB drop, the MUTE and the MONO buttons complete the feature list to make sure you have the necessary options at hand.
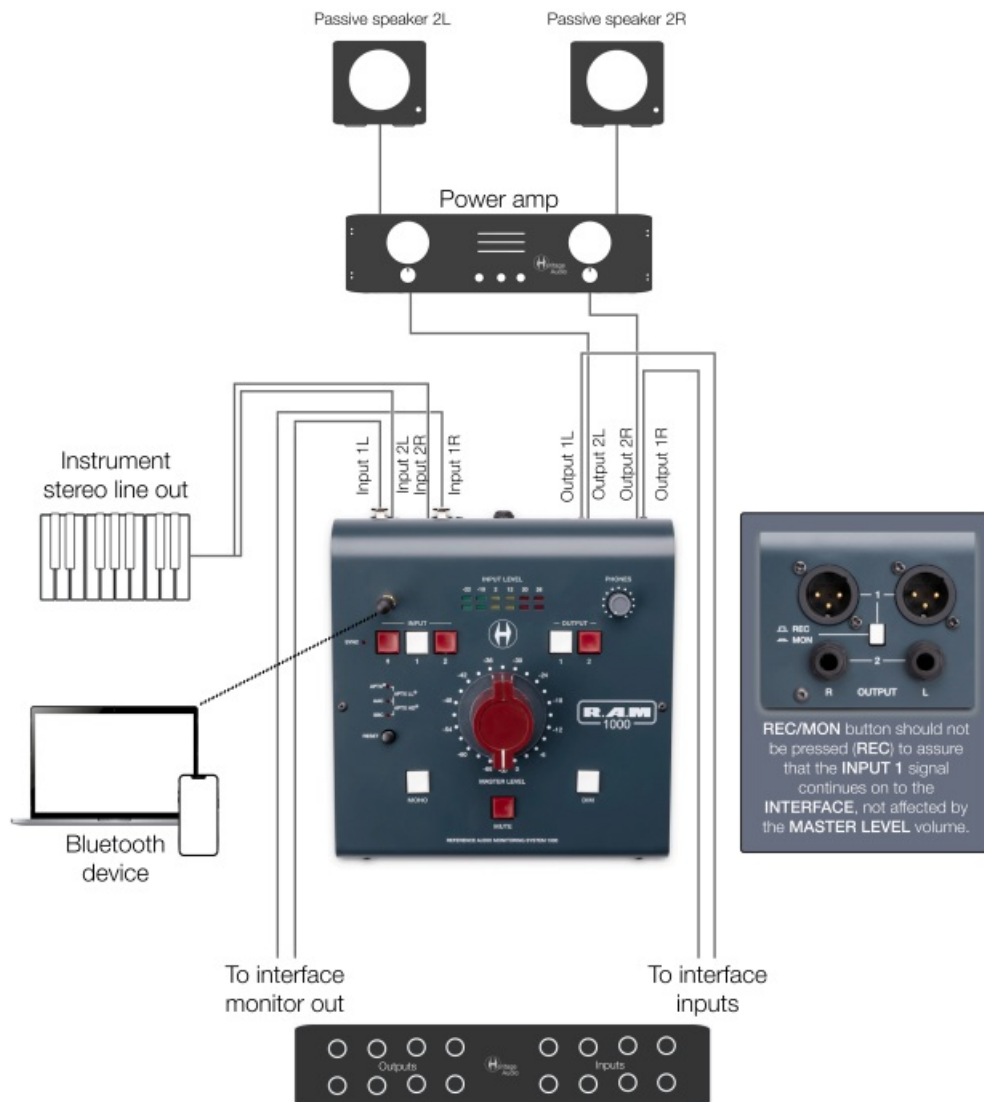
APPLICANTIONS

1. INPUT BLUETOOTH

2. OUT MONITORING + HEADPHONES

2 IN / 2 OUT MONITORING

Active speaker 1L

Passive speaker 2L

Passive speaker 2R

Active speaker 1R

Power amp

Instrument
stereo line out

Input 1L
Input 2L
Input 2R
Input 1R

Output 1L
Output 2L
Output 2R
Output 1R

INPUT LEVEL

PHONES

INPUT

OUTPUT

R.A.M
1000

MASTER LEVEL

MONO

DIM

MUTE

REFERENCE AUDIO MONITORING SYSTEM 1000

REC
MON

R   OUTPUT   L

REC/MON button should be
pressed (MON) to assure that
the INPUT 1 signal is
controlled by the MASTER
LEVEL volume.

Outputs

Inputs

To interface
Monitor Out

3 IN / 1 OUT MONITORING & 1 OUT RECORDING

SPECIFICATIONS

- THD + N Ratio@ 1kHz 26 dBu: < 0.01 %.
- Noise Floor@ Input GND: < -88 dBu.
- Phase@ 1 kHz: 0º.
- Dimensions (W x H x L): 190 mm x 85 mm x 200 mm.
- Balanced and floating inputs and outputs: Inputs and Outputs TRS JACKs, unbalanced compatible.
- 24 Step Passive Attenuator: In 3 dB steps for sub-tenth dB precision between left and right channels.
- Mute: Less than 100 dBu.
- Mute: Less than 100 dBu.
- No added distortion or noise.
- Insertion loss: Less than 0,2 dB.

TROUBLE SHOOTING

PROBLEMS	SOLUTIONS
There is no sound coming from my R.A.M 1000.	Make sure the 'MUTE' button is not pressed.
There is no still sound coming from my R.A.M 1000.	Make sure that the MASTER LEVEL volumen knob is not turned all the way down.
Even with the volume knob all the way up it doesn't seem to output as much as before.	You may have the 'DIM' button pushed, reducing the output by -20 dB.
There is no signal present at the R.A.M 1000 Output.	Verify that you have correctly connected the Input and Output cables.
I want to use a new mobile device with the Bluetooth Input but it is not recognised.	Push the RESET button and hold for 10 seconds after connecting a new Bluetooth mobile device.
Is it possible to have both outputs or both inputs active at the same time?	Yes, you can use all the INPUTS and OUTPUTS simultaneously.
The audio from my R.A.M 1000 seems less open than the audio directly from my DAW.	Double check that you have not accidentally pressed the 'MONO' button.
Nothing is arriving at my interface when trying to record my audio.	Make sure that you are inputting your instrument into INPUT 2, not INPUT 1.
There is still nothing arriving at my interface when trying to record my audio.	Make sure that the REC/MON button is not pressed…it should be in the REC position.
OUTPUTS 1 are not being controlled by the MASTER LEVEL volume control.	Make sure that you have pressed the REC/MON button…it should be in the MON position.
If your R.A.M 1000 is not operating correctly or even turning on.	Make sure your charger is providing at least 5 Volts and 5 Watts.

WARRANTY STATEMENT

LIMITED 2 YEAR WARRANTY

Heritage Audio R.A.M 1000 is warranted by Heritage Audio S.L. to be free from defects in materials and workmanship for the period of 2 years to the original purchaser. In the event of such defects, the product will be repaired without charge or, at our option, replaced with a new one if delivered to Heritage Audio prepaid, together with a copy of the sales slip or other proof of purchase date. The warranty excludes problems due to normal wear, abuse, shipping damage or failure to use the product in accordance with the specifications. Heritage Audio shall not be liable for damages based upon inconvenience, loss of use of the product, loss of Heritage Audio shall not be liable for damages based upon inconvenience, loss of use of the product, loss of time, interrupted operation or commercial loss or any other damages, whether incidental, consequential or otherwise.

This warranty is not transferable.

We encourage you to register your new R.A.M 1000 in our web in order to better manage any warranty related issues at: **https://heritageaudio.com/registration/**

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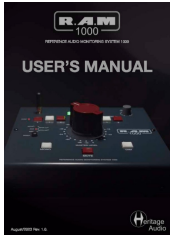
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Documents / Resources

Heritage Audio R.A.M 100 Reference Audio Monitoring System 1000 [pdf] User Manual
R.A.M 100 Reference Audio Monitoring System 1000, R.A.M 100, Reference Audio Monitoring
System 1000, Audio Monitoring System 1000, Monitoring System 1000, System 1000

References

- **Heritage Audio**
- **Product Registration - Heritage Audio**