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R.A.M SYSTEM 2000 Desktop Monitoring System With Bluetooth

Heritage Audio R.A.M SYSTEM 2000 Desktop Monitoring System With Bluetooth User Guide

Contents

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Specifications

- **Product Name:** RAM SYSTEM 2000
- **Type:** Desktop Monitoring System with Bluetooth
- **Manufacturer:** RAM Systems

FAQs

- **How do I recalibrate the RAM System 2000?**
  - To recalibrate the RAM System 2000, it is recommended to send it a tone digitally at around 16-18 dB FS for adjustment. Use the SPDIF digital input for more precise calibration.
- **How many level presets can be stored?**
  - The RAM System 2000 can store up to 2 different level presets.

INTRODUCTION

Thank you for choosing the R.A.M. SYSTEM 2000. Heritage Audio is dedicated to bringing you ´the sound of yesterday for tomorrow´. We specialize in capturing that unique, enticing sound that everybody has fallen in love with. For years engineers, producers and musicians have been yearning for that classic vibe. Usually, the only option is to search for old, used original equipment that is almost always in a questionable state of operation. This brings with it a whole lot of other issues, making the experience less than desirable. Not to mention the very high prices asked for this equipment, which makes them virtually unobtainable for the great majority. Now it´s possible to obtain that same sound with a brand new piece that will give you all the problem-free, heavy-duty use you´ll need for years of music-making history.

- Peter Rodriguez
- CEO
- Heritage Audio – Madrid, Spain

DESCRIPTION

- The Heritage Audio R.A.M. SYSTEM 2000 is a professional monitor controller in an attractive and convenient tabletop format. With its matrix of inputs and outputs, the System 2000 will cover all the monitoring needs of the most demanding professional facilities at a price never heard of before.
- The R.A.M. SYSTEM 2000 features generous I/O, with three pairs of +4 dBu balanced analog inputs and three stereo outputs, in addition to an independent pre-fader MIX OUT. Separate stereo CUE Inputs and Outputs, a 24Bit S/PDIF coax input, and pro-audio-quality Bluetooth input via antenna, for easy mobile device integration.
- For communicating with talent, there's a built-in Talkback with console-style management and routing. Lastly, Heritage Audio equipped the
- R.A.M. SYSTEM 2000 with an independent Subwoofer output that lets you effortlessly share your sub between different speaker pairs.
- The R.A.M. SYSTEM 2000 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 1 dB steps. Keeping active electronics to a minimum, the attenuator is buffered using state-of-the-art Burr Brown circuitry for negligible coloration and no noise. For easy recall of common settings, two user-assignable preset levels are also provided.
- Headphone monitoring is as critical as main speaker monitoring. Usually a weak link even in the most expensive units, the R.A.M. SYSTEM 2000 employs very high current drivers in a diamond buffer configuration which can drive all headphones to very high levels without any coloration or noise. It has 2 headphone amplifiers that are individually configurable and adjustable.
- Having classic RAF-gray cosmetics and a prominent red Marconi knob, your R.A.M. system will add a touch of class to your control room.
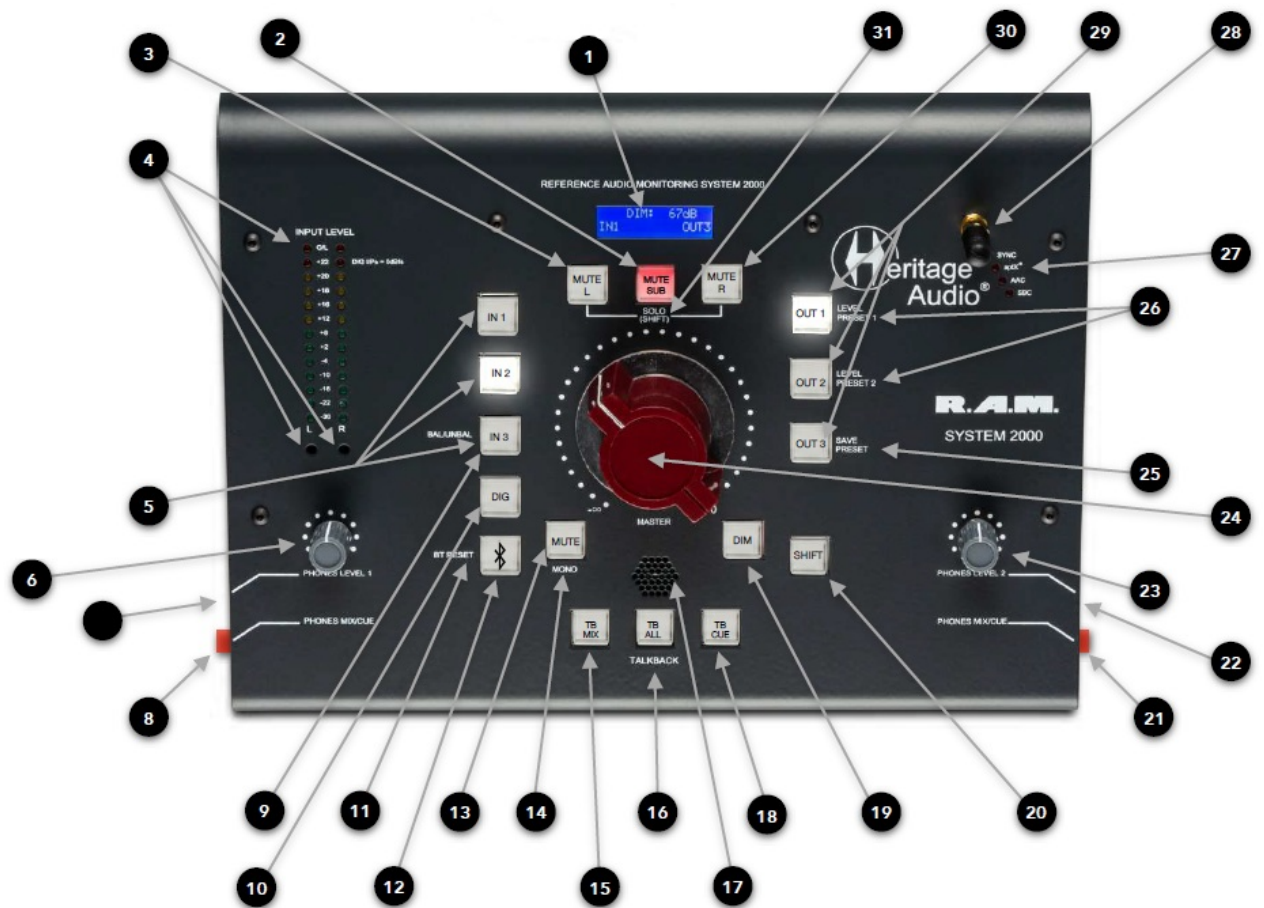
GETTING STARTED

FRONT

- **PRESET LEVEL SETTING Using the LEVEL PRESET OPTIONS:**
    - The RAM System 2000 can store 2 different level presets, which override the Red Level knob position.
    - Pressing SHIFT + OUT3 (Level Preset) will ask for which of the 2 presets wants to be stored (1 or 2).
    - Confirmation is given by pressing the corresponding key, OUT1 (Level Preset 1) or OUT2 (Level Preset2).
    - Pressing SHIFT + OUT1 (Level Preset1) will make the monitoring level that of the stored preset, same for preset 2

REFERENCE AUDIO MONITORING SYSTEM 2000

DIM: 67dB
IN1   OUT3

INPUT LEVEL

L   R

BAL/UNBAL

MUTE L   MUTE SUB   MUTE R

SOLO (SHIFT)

IN 1

IN 2

IN 3

DIG

BT RESET

PHONES LEVEL 1

PHONES MIX/CUE

MUTE
MONO

MASTER

TB MIX   TB ALL   TB CUE

TALKBACK

DIM

SHIFT

Heritage Audio®

SYNC
MAX
AAC
SDC

OUT 1   LEVEL PRESET 1

OUT 2   LEVEL PRESET 2

OUT 3   SAVE PRESET

R.A.M.

SYSTEM 2000

PHONES LEVEL 2

PHONES MIX/CUE

1	2	3	4	5
LCD SCREEN Updates to function being used indicating values	**MUTE SUB** Mutes the Subwoofer Output	**MUTE L** Mutes Left Channel	**INPUT LEVEL** LED Input Level Meter with Calibration Screws *	**INPUTS** Select between Analog 1-3
6	7	8	9	10
PHONES LEVEL 1 Headphone Volume adjustment	**HEADPHONE 1 OUTPUT** 1/4 TRS Jack	**PHONES 1 MIX/CUE** Selects monitor signal	**BAL/UNBAL** Switches Input 3 to -10 dBV Unbalanced	**DIG** Digital Input
11	12	13	14	15
BT RESET Resets the Bluetooth connection	Bluetooth Input	**MUTE** Mutes the output	**MONO** Collapses the signal to mono	**TB MIX** Sends Talkback to MIX
16	17	18	19	20
TB ALL Sends Talkback to ALL	**TB MICROPHONE** Captures signal going to TalkBack	**TB CUE** Sends Talkback to CUE	**DIM** Reduces Output by -20 dB	**SHIFT** Engages the Soft Functions
21	22	23	24	25
PHONES 2 MIX/CUE Selects monitor signal	**HEADPHONE 2 OUTPUT** 1/4 TRS Jack	**PHONES LEVEL 2** Headphone Volume adjustment	**64 STEP ATTENUATOR** 64-step relay ladder attenuation with 1 dB steps	**SAVE PRESET** Saves Level Preset
26	27	28	29	30
LEVEL PRESETS Sets the Predefined Volume Levels 1&2	**LED CODEC INDICATOR** Shows the CODEC in use and confirms the connection	**BLUETOOTH ANTENNA** Bluetooth wireless input(AAC, APTX, SBC)	**OUTPUTS** Select between Outputs 1-3	**MUTE R** Mutes Right Channel

31	*CALIBRATION
SOLO (SHIFT) Select SOLO For Left, Right, or SUB	The R.A.M. SYSTEM 2000 is properly calibrated from our headquarters, but it is possible to recalibrate if desired or necessary. To calibrate the Input LEDs we recommend sending it a tone, digitally, at at around 16-18 db FS for adjustment. This is because in that area it will be more exact as there are only 2 dBs of range, therefore allowing you to focus more precisely. And if possible, do use the SPDIF digital input for this.

REAR

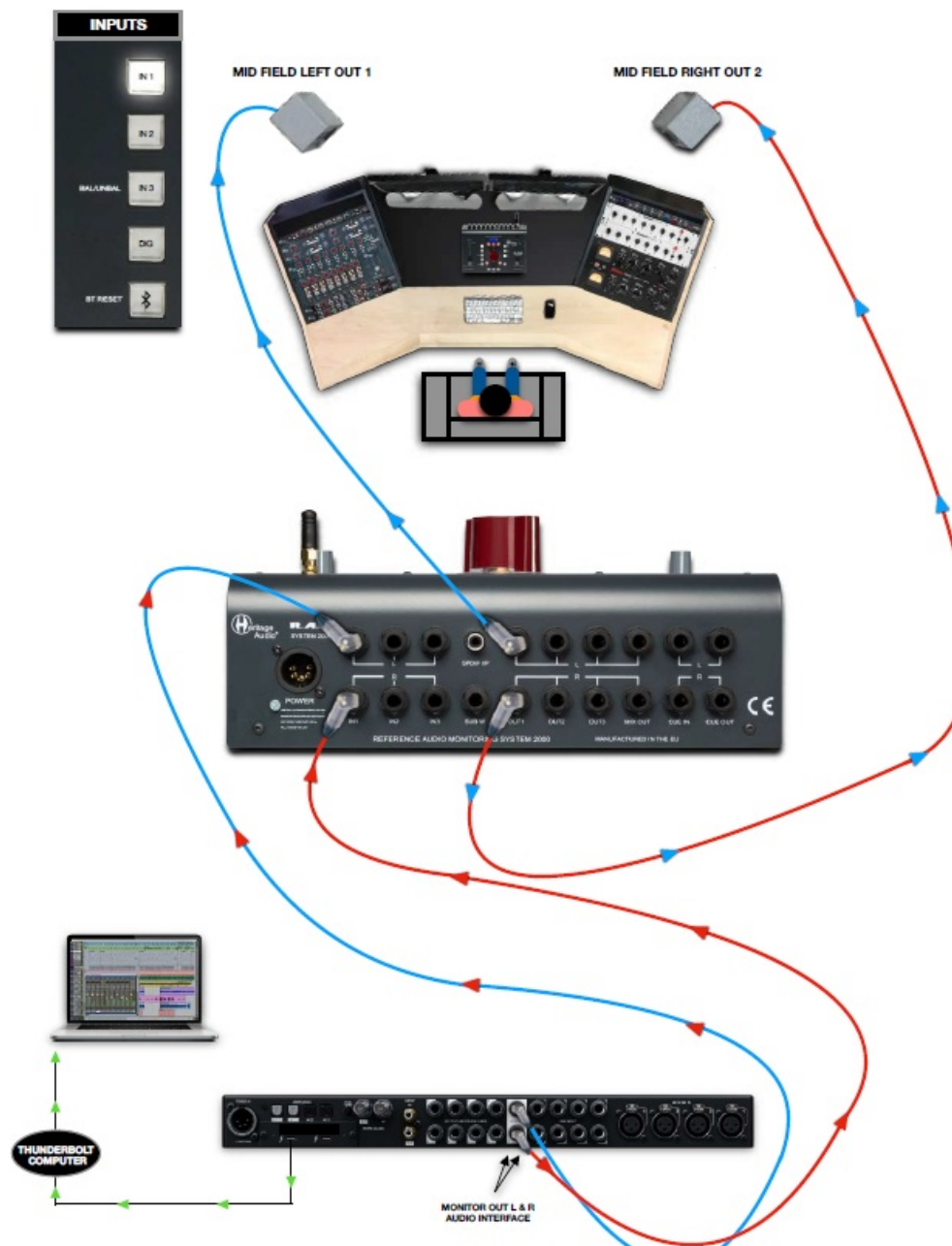| 1	2	3	4	5
SPDIF I/P 24Bit/96 kHz Digital Input	**POWER** 5 Pin Power Connector	**L/R INPUTS 1-3** Analog Inputs on TRS Jacks	**SUB W** Dedicated Subwoofer Output on TRS Jack	**L/R OUTPUTS 1-3** Analog Outputs on TRS Jacks

6	7	8
MIX OUT Stereo Mix Output	**CUE OUT** L/R Outputs	**CUE IN** L/R Inputs

Balanced Jack Connector

Ring

Sleeve= Cable Shield

Sleeve

Tip

Tip= Left / +

Strain relief clamp

Ring=Right / -

RCA/DIGITAL

Tip: +

Sleeve: -

Must use a 75 Ohm
Digital Cable

Sleeve   Tip

Tip= +

Sleeve= -
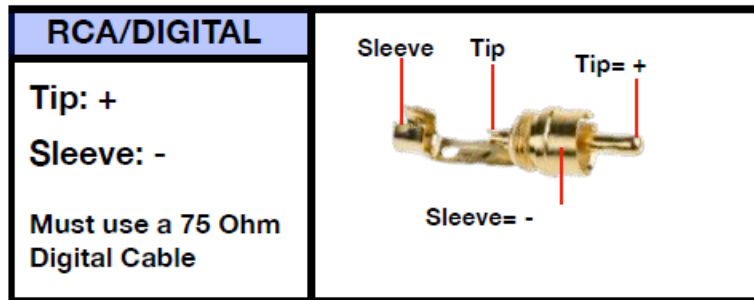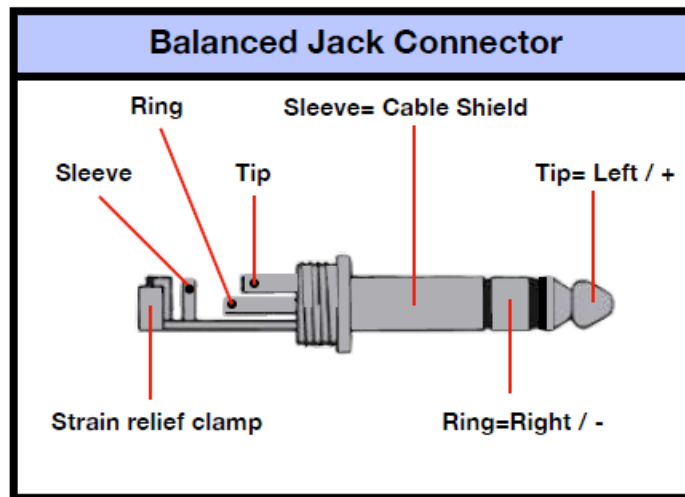
APPLICATIONS

STEREO MONITOR

INPUTS

IN 1
IN 2
BAL/UNBAL IN 3
DIG
BT RESET

MID FIELD LEFT OUT 1

MID FIELD RIGHT OUT 2

THUNDERBOLT
COMPUTER

MONITOR OUT L & R
AUDIO INTERFACE

BLUETOOTH STEREO MONITOR
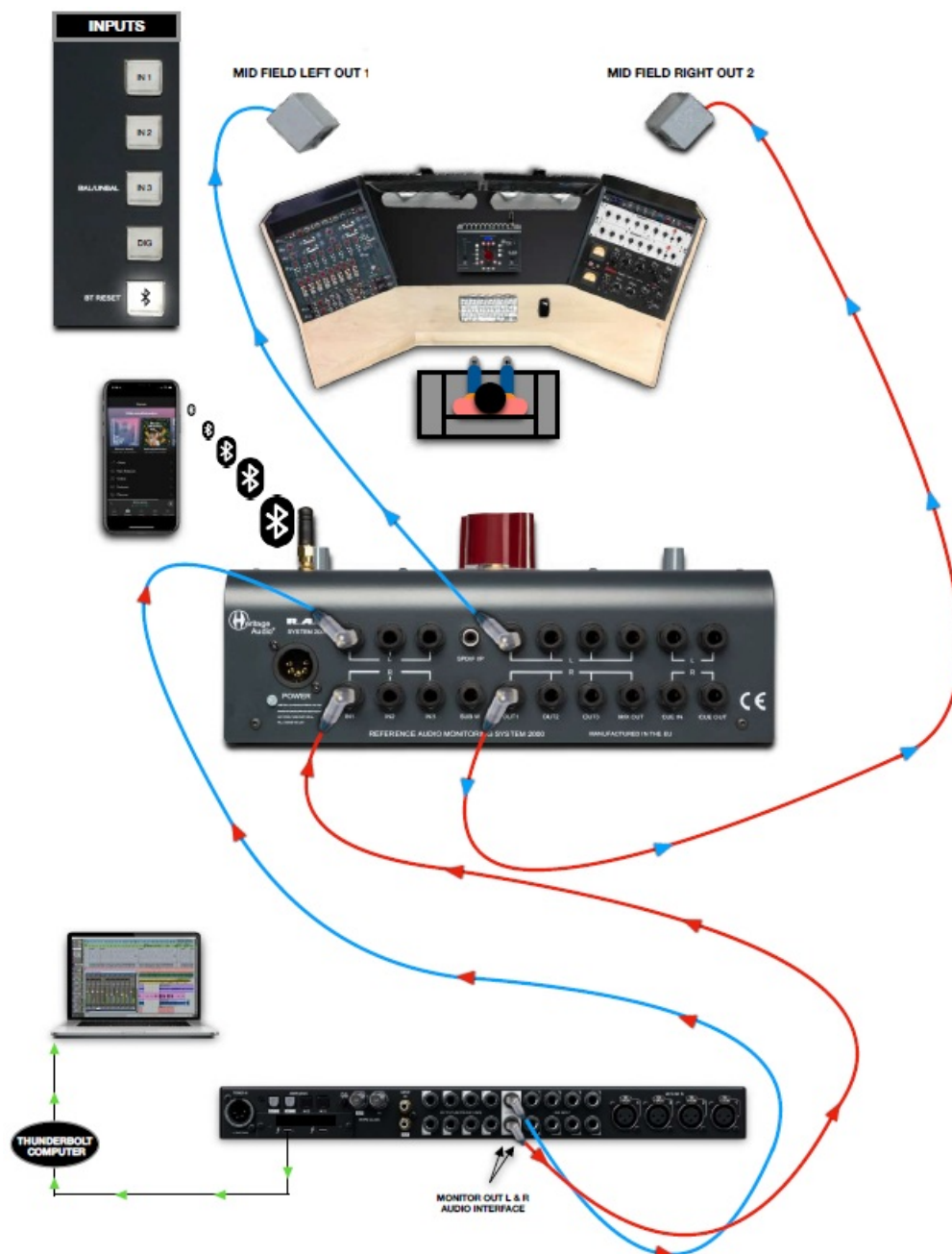
DIGITAL STEREO MONITOR
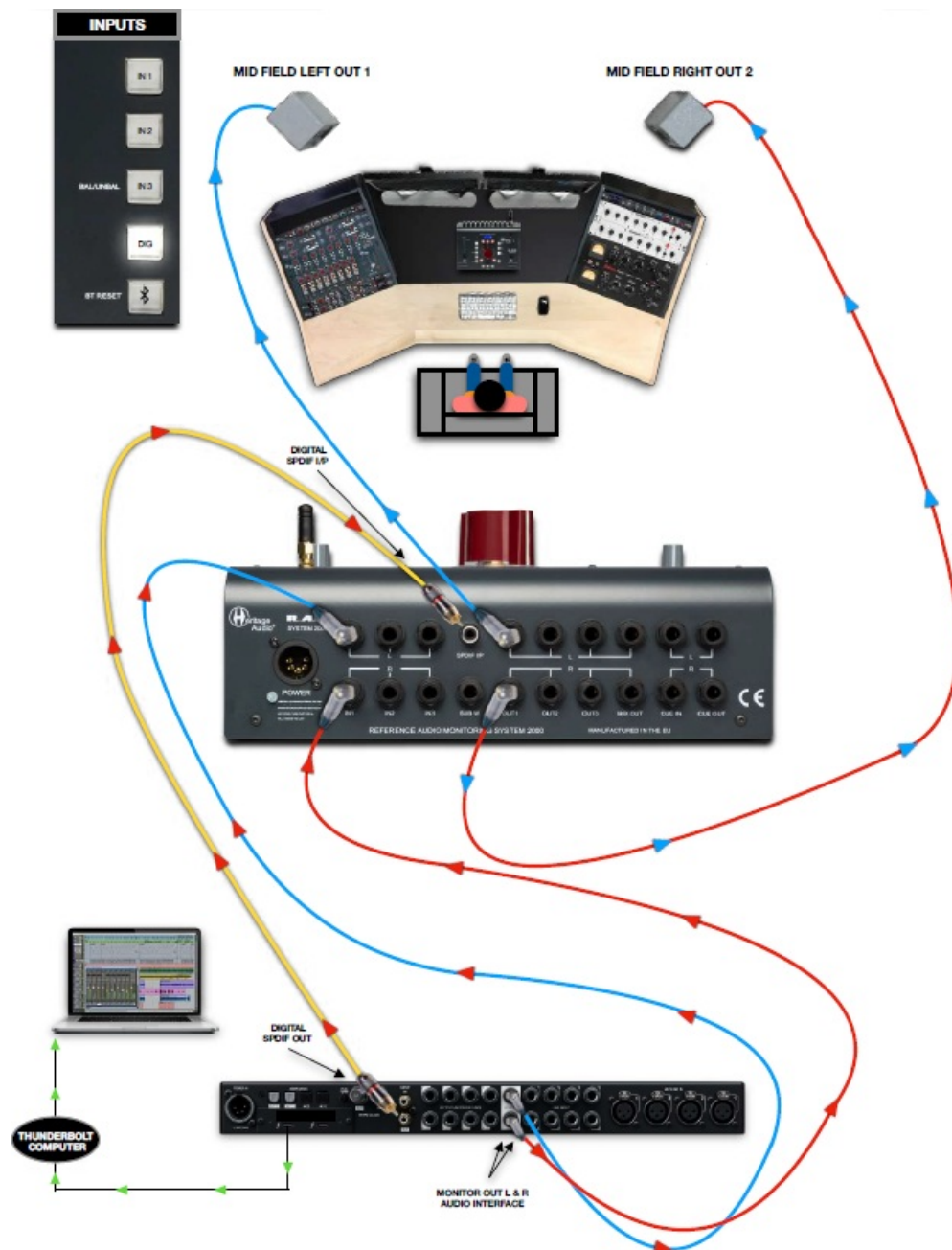
TWO INPUTS & HEADPHONES
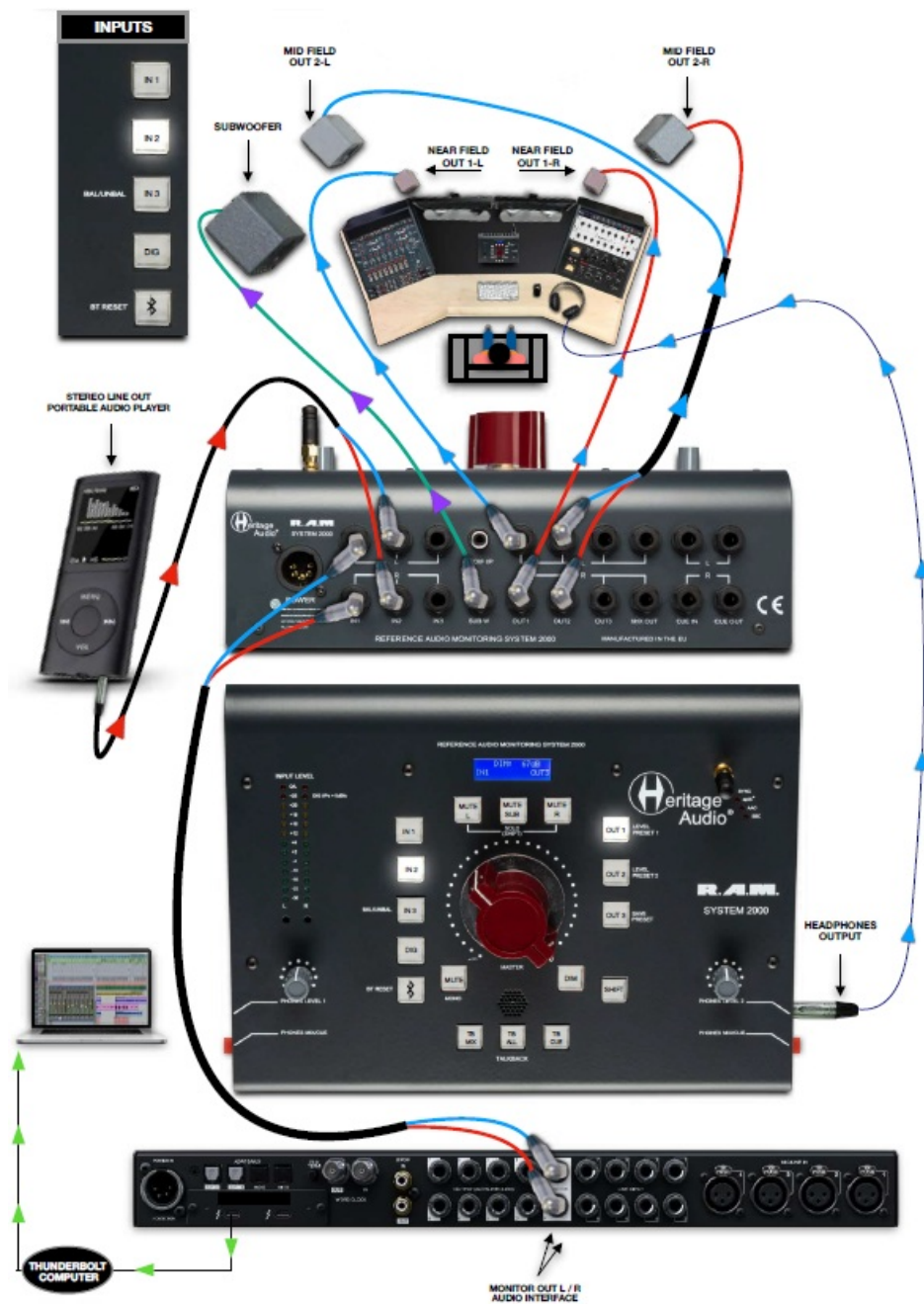
THREE OUT MONITORING WITH CUE
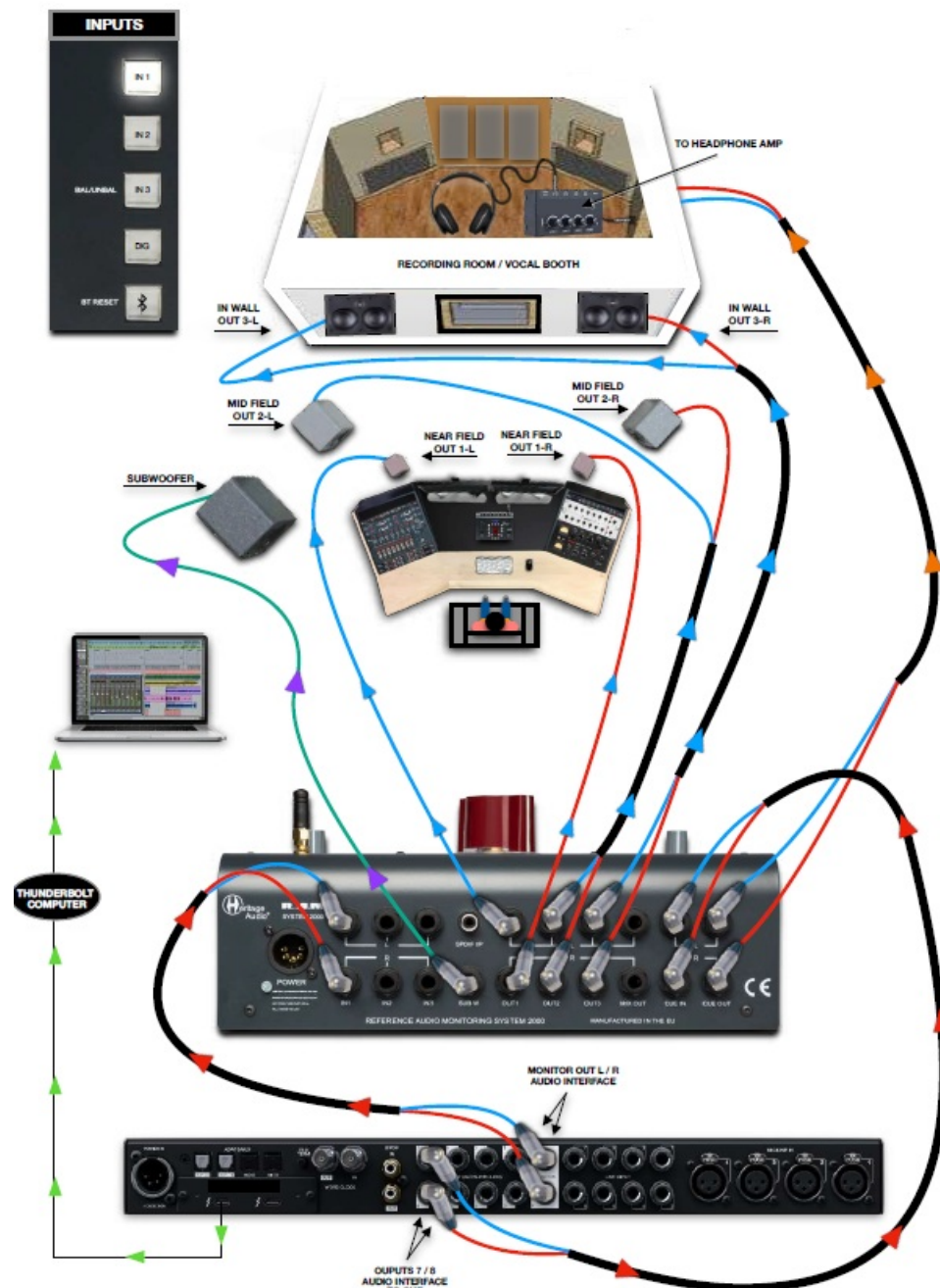
SPECIFICATIONS

- **Maximum analog input level:** Over +27,5 dBu.
- **Digital input:** Up to 24Bit/96 kHz. 0 dBfs= +22 dBu at the output, fader fully up.
- **Bluetooth input:** AAC, aptX or SBC, 0 dBfs= +22 dBu at the output, fader fully up.
- **DIM attenuation:** -20 db.
- **Maximum output level:** Over +27 dBu into 600 Ω.
- **Noise:** Better than -99 dBu.
- **THD:** Better than .001 % at 1 kHz, balanced input to balanced output, fader fully up.

Dimensions/Weight

- **Dimensions (W x H x L):** 213 mm x 85 mm (With antenna: 115 mm) x 266 mm.
- **Weight:** 2,435 Kg.

SIGNAL FLOW
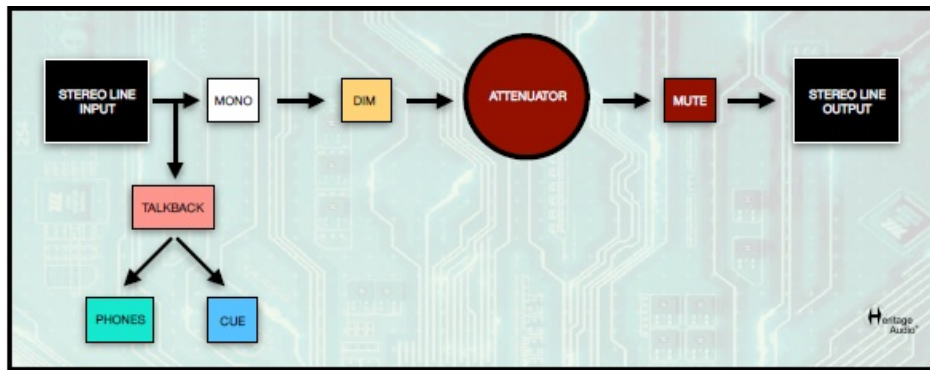
SYNCHRONIZING YOUR DEVICE WITH THE RAM SYSTEM 2000

- Synchronizing your mobile device with the RAM System 2000 is as simple as pairing any other Bluetooth device. It will appear as "HERITAGE RAM 2000" on your Bluetooth devices´ list.
- YouTube hosts nice tutorials about how to do so in both Android and iOS if you need help.
- The System 2000 automatically selects the best Codec supported by your mobile device, so no configuration is needed.

OPERATION

- Whenever a device is paired with the RAM System 2000, the "SYNC" LED will light. From then on, your mobile device takes over the transmission, including
- Transport control (PLAY, STOP, etc.) and Level (Volume).
- Active streaming is confirmed by the 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 SHIFT + BT buttons must be pressed down.

TROUBLESHOOTING

PROBLEMS	SOLUTIONS
There is no sound coming from my R.A.M. SYSTEM 2000.	Make sure the ´MUTE´ button is not pressed.
The audio from my R.A.M. SYSTEM 2000 seems less open than the audio directly from my DAW.	Double-check that you have not accidentally pressed the ´MONO´ button.
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 -20dB.
There is no signal present at the R.A.M. SYSTEM 2000´s Output.	Verify that you have correctly connected the Input and Output cables.
Upon turning on the R.A.M. SYSTEM 2000 there is no sound.	This is normal as it starts in MUTE. Just turn the volume knob to activate.
Is it possible to have both outputs or both inputs active at the same time?	No, you can only use one Input and one Output at any given time.
Can I use a stereo subwoofer?	No, there is only one subwoofer output. Subwoofer use is generally in MONO, not Stereo.
I want to use a new mobile device with the Bluetooth Input but it is not recognised.	Push the BT RESET button after connecting a new Bluetooth mobile device.

For any further doubts or questions please get in contact with us at: **support@heritageaudio.com**.

WARRANTY STATEMENT

LIMITED 2-YEAR WARRANTY

- Heritage Audio R.A.M. SYSTEM 2000 is warranted by Heritage Audio SL to be free from defects in materials and workmanship for 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 following the specifications.
- 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.
- Heritage Audio and the Heritage Audio "H" logos are registered Trademarks owned and/or licensed by Heritage Audio.
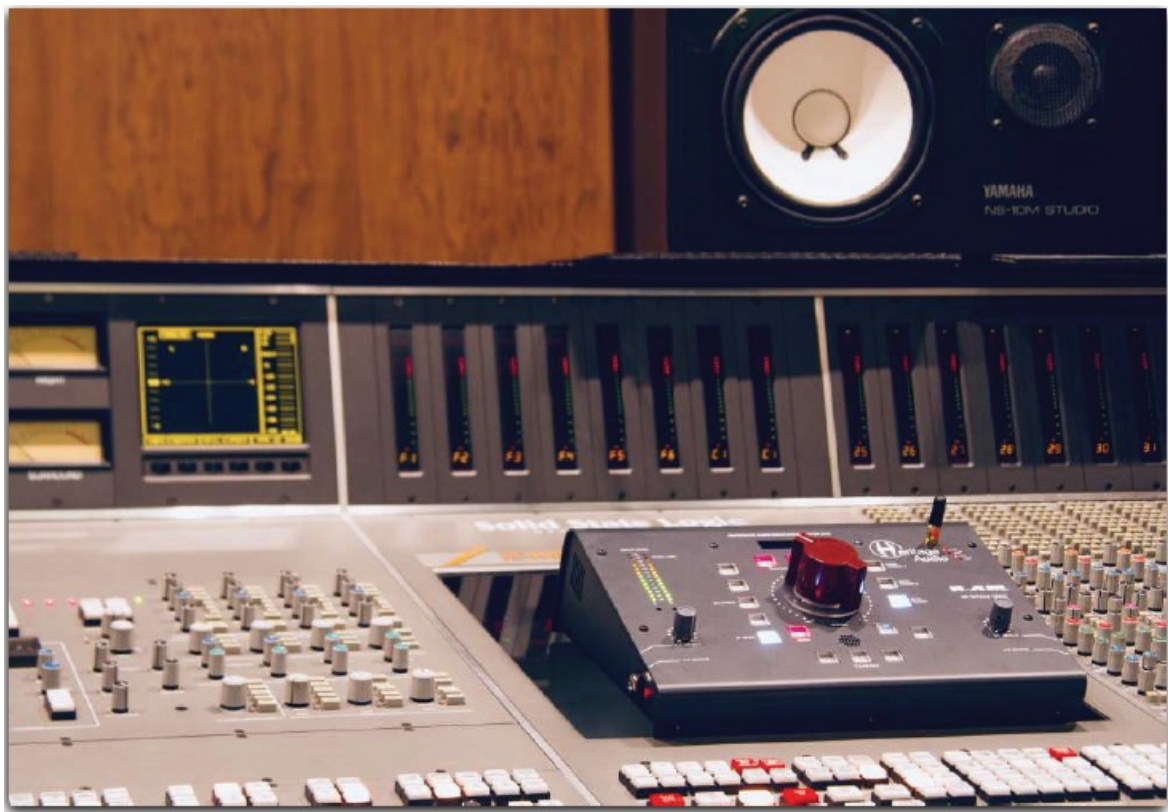
REGISTRATION

Please visit our website: https://heritageaudio.com/registration/.

RECALL SHEETS
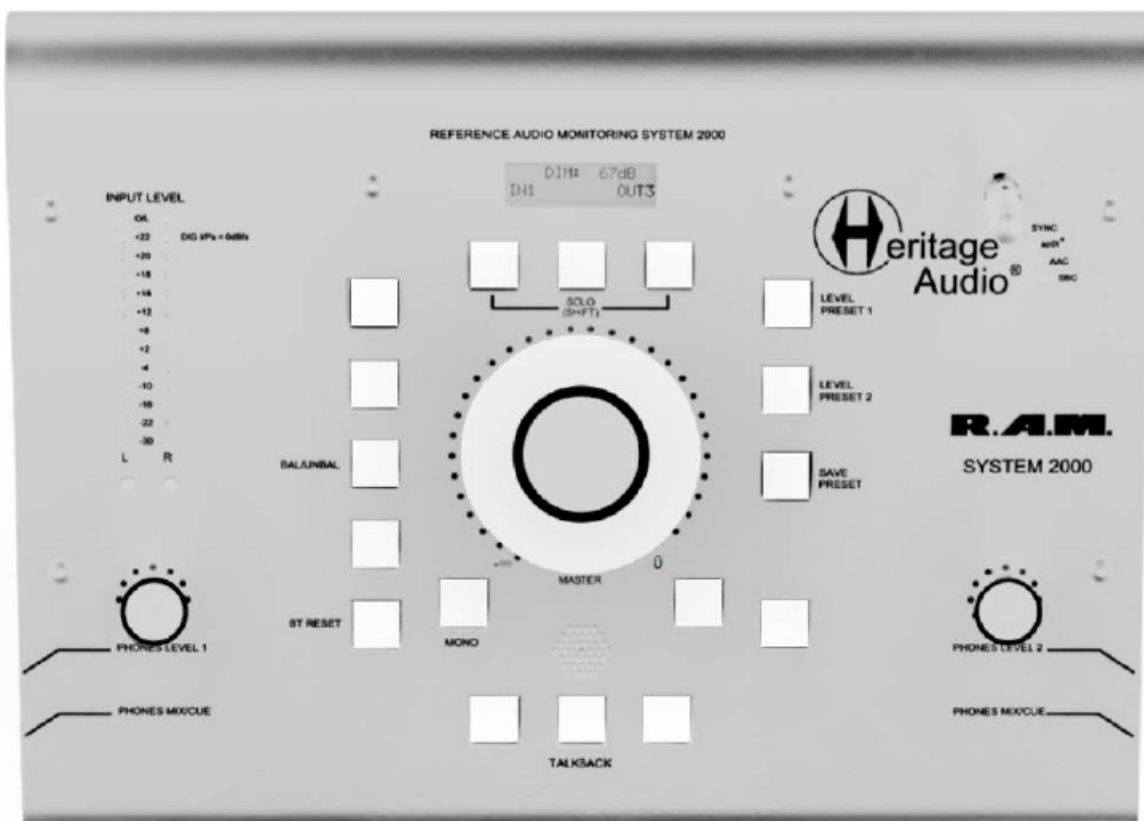
Session / Title:_____ Track:_____ CUE:_____ Codec:_____

Date:_____ Instrument: _____ Notes: _____

☑ Switch **ON** ⊏⊐
☐ Switch **OFF** ☐

CONTACT

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- **Tel:** +34 917 266 189
- [**info@heritageaudio.com**](mailto:info@heritageaudio.com).

Documents / Resources

	[**Heritage Audio R.A.M SYSTEM 2000 Desktop Monitoring System With Bluetooth**](#) [pdf] User Guide R.A.M SYSTEM 2000, R.A.M SYSTEM 2000 Desktop Monitoring System With Bluetooth, Desktop Monitoring System With Bluetooth, Monitoring System With Bluetooth, System With Bluetooth

References

- 🅗 [**Heritage Audio**](#)
- 🅗 [**Product Registration - Heritage Audio**](#)
- [**User Manual**](#)