

A2.1 USER MANUAL

390W 3-CHANNEL (1-SUB, 2-SATS) AMPLIFIER



A

Designed for the stand-alone system in a guest room or bedroom where you desire premium L/R & subwoofer sound. This may include a SoundBar with an in-wall subwoofer.

B

Ready your workstation for a high-end media experience requiring rich L/R & subwoofer sound.

C

Perfect for the close proximity landscape system using both L/R & subwoofer speakers.

From the family of quality James Loudspeaker amplifiers we bring you the A2.1.

Designed and engineered by James Loudspeaker, we leveraged our decades of sound engineering experience to build what might be the simplest, most smartly designed amp in the industry. Designed for the stand-alone system located in a guestroom; to complement a high-end multi-media desktop system; and or even for use with close-proximity outdoor systems, the A2.1 fits a number of applications.

Features

- Remote Control
- Digital Inputs
- Remote IR Receiver
- 12V Trigger
- Selectable Subsonic Filter
- Selectable Input Sensitivity



CAUTION

RISK OF ELECTRICAL SHOCK
DO NOT OPEN



CAUTION: To reduce the risk of electric shock, do not remove cover (or back).

No user-serviceable parts are inside. Refer servicing to qualified service personnel. The lightning flash with arrowhead symbol is intended to alert the user to the presence of Non-insulated "dangerous voltage" within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. The exclamation point with arrowhead symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the amplifier.

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.

 **Correct disposal of this product:** This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

All other servicing should be referred to qualified service personnel.

- 1. Read Instructions** – All safety and operating instructions should be read carefully before the amplifier is operated.
- 2. Retain Instructions** – The safety and operating instructions should be retained for future reference.
- 3. Heed Warnings** – All warnings on the amplifier and in the operating instructions should be adhered to.
- 4. Follow Instructions** – All operating and use instructions should be followed.
- 5. Warning** – To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that objects filled with liquids, such as vases, shall not be placed on apparatus.
- 6. Carts and Stands** – The amplifier should be used only with a cart or stand recommended by the manufacturer.
- 7. Rack or Shelf Mounting** – The amplifier should be mounted in a rack or on a shelf only as recommended by the manufacturer.
- 8. Ventilation** – The amplifier should be situated so that its location or position does not interfere with its proper ventilation. For example, the amplifier should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings, or placed in a built-in installation such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

9. Heat – The amplifier should be situated away from heat sources such as heating radiators, heat registers, stoves, or other amplifiers or components that produce heat.

10. Power Sources – The amplifier should be connected to a power supply only of the type described in the operating instructions or as marked on the amplifier itself.

11. Power Cord Protection – Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon them or against them, paying particular attention to cords at plugs, convenience receptacles, and the point at which they exit from the amplifier.

12. Caution – To prevent electrical shock, match wide blade of plug to wide slot, fully inserted.

13. Cleaning – The amplifier should be cleaned only as recommended by the manufacturer.

14. Non-Use Periods – The power cord of the amplifier should be unplugged from the outlet when it is left unused for extended periods of time.

15. Object and Liquid Entry – Care should be taken that objects will not fall and liquids will not be spilled on the enclosure.

16. Damage Requiring Service – The amplifier should be serviced by qualified personnel when:

- a. The power supply cord or plug has been damaged.
- b. Objects have fallen or liquid spilled into the amplifier.
- c. The amplifier has been exposed to rain.
- d. The amplifier does not appear to operate normally or exhibits a marked change in performance.
- e. The amplifier has been dropped or damaged.

17. Servicing – The user should not try to service the amplifier beyond what is described in the operating instructions.

18. Overloading – Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electrical shock.

19. Replacement Parts – When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

20. Safety Check – Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

21. Warning –The batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

22. Warning –Only use attachments/accessories specified or provided by the manufacturer (such as any separate power supply, battery, etc).

23. Warning –The mains plug is used as disconnect device, the disconnect device shall remain readily operable.

Features and Controls



1. **Rack Ears** - For standard 19" rack mounting of the amplifier - these can be removed if needed for shelf mounting
2. **IR Window for Receiving Remote Control Signals** - Do not block. Will be disabled if the rear IR input jack is used.
3. **Power LED** - Indicates the power state input source: no color - powered off, red - stand by mode, blue - RCA inputs, green - coax input, purple - digital input, yellow - signal muted. In every mode except standby (red), after 5 minutes of inactivity the LED will dim to be less obtrusive.
4. **Master Volume** - Controls the overall volume of the sats and subs together.
5. **Sub Volume** - Used to set the relative level of the subwoofer volume to the sat volumes. There is about a +/- 12dB range relative to the sat level. This allows the bass level to be matched with various sats and will vary based on the efficiency of the sats and subs used. There is no standard setting - what sounds best.
6. **Sub Crossover** - Set the crossover point for the subwoofer between 40Hz and 150Hz. 80Hz is marked as a reference.
7. **Sat Crossover** - Set the crossover point for the sats between 40Hz and 150Hz. 80Hz is marked as a reference.
8. **45Hz Boost Switch** - Allows the addition of +4dB of bass boost for the subwoofer
9. **Phase Switch** - Switches the polarity of the subwoofer to allow better matching to the sats in certain situations - the setting depends on the specific installation and James recommends you start in the 0 degree setting.
10. **Right Sat Speaker Connection** - Connect the red terminal to the positive on the right sat speaker.
11. **Left Sat Speaker Connection** - Connect the red terminal to the positive on the left sat speaker.
12. **Subwoofer Speaker Connection** - Connect the red terminal to the positive on the subwoofer. *Output bridged - No common ground.
13. **Optical Digital Audio Input (Purple LED)** - S/PDIF Connector
14. **Coaxial Digital Audio Input (Green LED)** - RCA Connector
15. **Left/Right RCA inputs (Blue LED)** - A 1/8 mini phone plug to RCA cable is included for cell phone and tablet sources.
16. **Source Selector Button** - Pressing this button cycles through the 3 inputs. The front LED color will indicate the source selected. Offers the same function as the remote control
17. **Input Sensitivity Switch** - Use the 0.2V setting for phones, tablets, music players and other low output sources. Use 0.775V for normal audio source such as DVD players, TVs and control systems.
18. **High Pass Filter Switch** - Selects a low frequency cut off for the subwoofer - used to prevent damage to smaller sub woofers. Normally, 30Hz is recommended unless the subwoofer specs indicate otherwise.
19. **IR Input for IR Cable** - A 10 ft (3 m) remote IR receiver is supplied. When installed, this disables the front IR sensor. This allows the amplifier to be hidden and the IR receiver placed discretely where it can receive remote control signals.

20. **12V Trigger Input** - Plugging in a 12V plug will automatically switch the amplifier to 12V on/off trigger mode.
21. **USB B Connector** - For factory use only.
22. **USB A Connector Provides 5V Power Only** - For future peripherals.
23. **Power Switch** - Turns the amplifier on and off. In the "On" position, the amplifier will can be put into standby via the 12V trigger, remote or through the auto sleep function. Auto sleep - if there is no input signal present for 15 minutes the amp will go into standby.
24. **120V/240V Selector** - Make sure this is correctly set for your AC line voltage.
25. **IEC Power Connection.**
26. **Fuse Holder/Spare Fuse Holder** - Fuse Ratings: 120V - T5.0 / 240V - T2.5
27. **Optional Self-Adhesive Feet on Bottom** These can be left off for rack mounting or attached for shelf use.

SUPPLIED ACCESSORIES:

28. Remote control.
29. Self adhesive rubber feet.
30. 6ft (2m) RCA to mini phone plug audio cable.
31. 10ft (3m) IR receiver with adhesive.
32. IEC power cable.



NOTES

Remote Control - be sure to pull and remove the clear plastic tab to allow the battery to turn on the remote.

A2.1 SPECIFICATIONS

Channels	3 (Left, Right & Sub)
Inputs	Left/right RCA - Analog (Blue LED) Coaxial RCA - Digital (Green LED) Optical S/PIDF - Digital (Purple LED) Switchable via remote or rear push button
Input Sensitivity	0.2V or 0.775V (Switchable on rear)
Sat Crossover Range	40Hz-150Hz (12dB/octave)
Sub Crossover Range	40Hz-150Hz (12d B/octave)
Sub Volume Level	+/-12dB ref to sat level
12V Trigger Input	Min 4VDC required
Subsonic Filter	30Hz/50Hz (Switchable on rear)
IR Input	On rear
USB A Connector	Supplies +5V to optional peripherals
USB B Connector	For factory use only
Bass Phase Switch	0 or 180 deg
Bass Boost	+4dB at 45Hz
Signal Auto Sense	20 minutes
Sub Power Output	170W @ 4 ohms 70W @ 8 ohms
Sat Power Output	110W @ 2 ohms 65W @ 4 ohms 40W @ 8 ohms
Frequency Response	20Hz-20kHz +/- 0.2dB
Distortion	0.1% max THD @ 1W
Size W x H x D (w/rack ears)	19" x 1.75" x 10" 483mm x 44.5mm x 254mm
Weight	7.5 lbs (3.4 kg)
Power Requirements	Switchable 120V/240V 50Hz/60Hz 530W max
Standby Power	<0.5W
Supplied Accessories	Remote control 10ft (3m) IR receiver (+adhesive) 6ft (2m) dual RCA to mini phone plug audio cable IEC power cable 4 self adhesive rubber feet

Notes:

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