

DAEMON

Operation Manual

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Important Safety Instructions

This integrated amplifier has been designed to operate at the highest level of efficiency and performance in any operating condition; however, there are a few important use and care principles that must be kept in mind when using the Daemon.

- Read these instructions.
- Keep these instructions.
- Follow all instructions.
- Do not expose amplifier to rain, moisture, or excessively damp conditions.
- Due to auto-ranging AC mains circuitry, the audio performance will not be affected by any voltage fluctuations within the operating voltage range. The Daemon can be operated at any AC mains voltage within the range of 85 to 240 volts AC without any adjustments necessary.
- The Daemon must not be modified in any way, except according to official service bulletins from JRDG (Jeff Rowland Design Group), otherwise the warranty will be voided.
- The Daemon should only be used with a properly grounded AC power cord. Potential shock hazard may result if the supplied 3–wire power cord ground terminal is defeated or lifted or if the unit is connected to a 2–wire ungrounded AC mains outlet.

Protective Systems

The Daemon is protected against excessive AC current draw or power output demands. However, since no protection circuitry or system can completely protect a product from every potential electrical hazard, certain precautions should be observed. In the event of severe voltage hazards such as lightning, or when the amplifier will not be used for extended periods of time, the amplifier should be powered off and unplugged from the AC mains to avoid potential damage to the internal circuitry. All other components within the audio or video system should be disconnected from the AC mains as hazardous voltages can easily travel throughout an interconnected system.



The crossed-out wheeled bin is the European Union symbol for indicating separate collection for electrical and electronic equipment. This product contains electrical and electronic equipment which should be reused, recycled or recovered and should not be disposed of with unsorted regular waste. Please return the unit or contact the authorized dealer from whom you purchased this product for more information.- Electromagnetic Compatibility (89/336/EEC) Directives when used and installed according to this instruction manual. For continued compliance servicing must be referred to a person qualified service technician.

Limited Warranty

Jeff Rowland Design Group, Inc., warrants the materials, workmanship, and proper functioning of this product for a period of five years from the date of purchase as long as the product was operated in accordance with the operating manual, and the product was not altered or improperly serviced or if the product failed to function from the date of purchase. In the event of a failure, the product will be repaired or replaced by Jeff Rowland Design Group, Inc. This warranty is extended to the original purchaser only and is not transferable to any secondary owner.

In order to have this product repaired or replaced, original purchaser must first obtain prior authorization of Jeff Rowland Design Group, Inc., or one of its dealers. Purchaser must return product, PACKAGED IN ITS ORIGINAL SHIPPING CONTAINER, FREIGHT PREPAID TO : Jeff Rowland Design Group, Inc., 2911 North Prospect St., Colorado Springs, COLORADO, 80907.

Jeff Rowland Design Group, Inc., reserves the right to inspect any product which is subject to any warranty claim prior to repairing or replacing. Final determination of warranty coverage lies solely with Jeff Rowland Design Group, Inc. Said determination shall be made as soon as possible following receipt of product. Jeff Rowland Design Group, Inc., may at its option require from the owner a valid proof of purchase (dated copy or photocopy of the original invoice). Non-warranty claims will be billed for labor, materials, return freight, and insurance as required. Any product for which a warranty claim is accepted will be returned to the purchaser and cost of shipping and insurance will be factory prepaid within the boundaries the USA. Units to be shipped outside of the USA will be shipped freight collect only. This warranty gives the customer specific legal rights. The purchaser also has implied warranty rights, and may also have other rights which may vary from state to state.

Jeff Rowland Design Group, Inc., strives to manufacture the highest quality audio equipment and therefore reserves the right to make changes in design or improvements.

THE ABOVE WARRANTY IS THE SOLE WARRANTY GIVEN BY Jeff Rowland Design Group, Inc., AND IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED. WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE SHALL BE STRICTLY LIMITED IN DURATION TO FIVE YEARS FROM THE ORIGINAL DATE OF PURCHASE AND UPON THE EXPIRATION OF THIS FIVE YEAR WARRANTY PERIOD, Jeff Rowland Design Group, Inc. SHALL HAVE NO FURTHER OBLIGATION OF ANY KIND WHETHER EXPRESSED OR IMPLIED.

Jeff Rowland Design Group, Inc., does not authorize any third party, including any dealer representative, to assume any liability on its behalf or to make any warranties on its behalf unless authorized to do so.

Warranty registration cards must be completed and mailed to Jeff Rowland Design Group, Inc., within thirty (30) days from the date of purchase. If this product is used in a commercial or industrial application, then special warranty exclusions may apply. Contact your dealer or Jeff Rowland Design Group, Inc., for information regarding our commercial warranty policies.

Guide Use

This guide is designed to make installing and using this product as easy as possible. The information in this document is read and carefully checked for accuracy at the time of printing; however, the Jeff Rowland Design Group, Inc., policy is one of continuous improvement and therefore design specifications are subject to change without prior notice. If you notice any errors please feel free to email us at: support@jeffrowlandgroup.com.

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Note From Jeff Rowland

Welcome to the Jeff Rowland Design Group 'family' and congratulations on your purchase of what is unquestionably one of the world's finest integrated amplifiers. With its combination of features such as precision electronic circuitry, exceptional efficiency, and accurately machine chassis components throughout, your Daemon will offer many years of musically satisfying enjoyment.

Please take a few moments to read the remainder of this owner's manual before proceeding with the installation of the amplifier. A thorough understanding of the operational features will allow you to gain the maximum performance and ease of use for which this amplifier was designed.

Please note that your Daemon serial number begins with the letters 'DA'. Please include this number with any correspondence regarding your Daemon. It has been my joy to create an audio component of enduring value that reflects the highest ideals of musical and artistic expression. It is my hope that these qualities will enrich your experience and pride of ownership.

If you have any additional questions regarding the installation operation of the Daemon, please contact your authorized Jeff Rowland Design Group Dealer or check the Jeff Rowland Design Group website at <http://jeffrowlandgroup.com>

Enjoy the music!

A handwritten signature in black ink that reads "Jeff Rowland". The signature is fluid and cursive, with the first letter of "Jeff" being a large, stylized capital "J".

Jeff Rowland President, Jeff Rowland Design Group

Special Design Features

MACHINED ALUMINUM CHASSIS: Precision-machined chassis with integrated heat-sinks milled from a solid block of aircraft grade aluminum, provides exceptional thermal heat transfer/dissipation. RFI/EMI shielding, resonance control, and minimizes micro-phonically induced micro-vibrations from any source.

BALANCED CIRCUIT TOPOLOGY: Inherent cancellation effects of balanced topology implemented throughout all power and input/output circuits ensures greatly reduced distortion and noise under dynamic signal conditions.

SURFACE-MOUNT COMPONENTS: Extensive use of lead-free, low temperature coefficient, active and passive surface-mount components results in significantly smaller loop areas, reduced circuit capacitance and inductance, and produce less noise than conventional leaded components.

THIN FILM RESISTORS: All resistors are low noise, 0.1% tolerance thin-film type for extremely low thermal noise which complement the low-noise characteristics of the active circuitry.

TEFLON COATED WIRES: Signal carrying input and output wires are teflon coated, for low dielectric energy storage, and ensures each audio note is reproduced naturally and decays into the deeper silence of the music.

TRANSFORMER-COUPLING AND ISOLATION: Transformer coupled input circuitry provides universal component compatibility and virtually eliminates ground loop noise and RFI/EMI. Transformer coupling ensures the same amplifier gain when using either balanced or unbalanced inputs.

HIGH-EFFICIENCY SWITCH MODE POWER SUPPLY: Highly efficient, compact, light weight, switch-mode power supply provides optimum voltage regulation for all circuits and operating conditions, and allows for quiet operation over a wide range of AC mains voltages.

EASY USE LOUDSPEAKER TERMINALS: CE approved speaker output terminals require no tools for secure, low resistance connections. Two pairs of terminals per channel in both vertical or horizontal orientation for easy cable installation.

REMOTE ON/OFF: (3.5mm) mini plug jack on rear panel permits amplifier power on/standby switching for remote or home theater applications.

HEADPHONE JACK: 1/4 inch (or 3.5mm with a supplied adapter) input jack for private listening. Main speaker terminals are muted when headphones are installed.

BLUETOOTH ENABLED HANDHELD REMOTE: The Daemon can be operated with a supplied Bluetooth enabled handset or with an iOS app iPhone, iPad, or iTouch.

Maintenance and Care

All Jeff Rowland Design Group products are designed to provide a lifetime of enjoyment and listening pleasure.

The chassis is sealed to prevent dust from entering the interior of the chassis and thus should never need interior cleaning during the lifetime of the product. All internal circuitry is maintenance-free; no adjustments of any kind are necessary over the lifetime of the product. If the amplifier is ever in need of service, or upgrading, it should only be returned to Jeff Rowland Design Group after a return authorization has been provided.

The front panel of the unit is precision-machined in a unique process that utilizes a diamond tipped cutting tool. This process was refined over many years to produce an attractive and unique appearance. Because the surface is not finished in the typical fashion of most audio and video equipment, there are a few rules that must be kept in mind when cleaning the equipment.

The front panel and touch display of the unit should never be cleaned with anything other than a very soft cotton microfiber cloth and plain water or fine oil-based furniture polish. Because of the fine finish of the front panel, use of any other cleaning agent may permanently scratch the finish.

The top and bottom covers and sides are protected by a durable black anodized finish and can be cleaned with a soft cotton cloth dampened with plain water. Water should be applied directly to the cloth and not the chassis surfaces.

A very mild plastic or glass cleaner that does not contain ammonia may also be used. If a mark has been left on the chassis, do not use any type of abrasives or chemical cleaner to remove the mark.

If you have any questions about the care or cleaning of your Daemon, please contact your dealer before attempting to clean the chassis. The use of a cleanser or abrasive to clean any chassis that has not been approved by the factory can damage the finish and will not be covered under warranty.

Unpacking and Placement

Inspect the shipping container for damage. If any portion of the shipping container, packing materials, amplifier, or accessories are damaged or missing, notify your dealer and the shipper (if a claim is to be made) immediately.

NOTE: MANY SHIPPERS REQUIRE NOTIFICATION AND INSPECTION WITHIN 24 HOURS OF DELIVERY TO DETERMINE THE NATURE OF DAMAGES INCURRED.

Your Daemon has undergone extensive performance evaluations, listening tests, quality control inspections, and a minimum 72 hour burn. After unpacking, and placement within your system, the Daemon should be in perfect operating condition. If your unit does not operate correctly, please notify your dealer immediately.

We strongly suggest that you save all of the packing materials. If the amplifier is returned to your dealer or Jeff Rowland Design Group, the original packing materials must be used for shipment to avoid potential damage during transit. Neither Jeff Rowland Design Group nor the shipper can be held responsible for damages incurred during transit if the original factory packing is not used. All factory returns require that Jeff Rowland Design Group, Inc. issue a return authorization (RA) number prior to return shipment.

UNPACKING

Carefully unpack amplifier chassis from original packing box.

Remove all accessory accessory items from the accessory box. Accessories include:

- Detachable IEC AC power cord
- Operational manual
- Warranty card
- Bluetooth remote
- 1/4 inch to 3.5mm headphone plug adaptor

PLACEMENT

There are four options for attaching equipment supports to the Delrin pedestal base of the Daemon. Three tapped holes of 8/32, 10/32, 1/4 X 20 thread pitch, located directly under each of the removable 2 inch diameter Delrin supports, allow attachment of a variety of threaded isolation devices.

Home Screen



1. Press Standby button to turn unit on after unit is plugged into AC mains.
2. Press Standby button to turn unit off.
3. Press 'Mute' button to mute all audio signal outputs. Mute is indicated on display. Press 'Mute' button again to resume normal operation.
4. Press 'Menu' button or gear icon on the top left corner of the display to access menu options.
5. Increase or decrease volume with Bezel wheel or use finger swipe on display volume arch.
6. Swipe the input icons left or right to select input. The centered underlined input icon indicates the active input.
7. Relative volume level is indicated in 'dB' units in center of screen with a range of 0 - 99.5.
8. Selected input name is indicated on display as chosen by user defined name in menu page.



MENU OPTIONS

- Default Menu Screen is 'Inputs'. Other tabs are, 'Brightness', 'Balance', and 'Phase'. By default each input is named by its generic description, i.e. 'RCA', 'XLR', 'SPDIF', 'AES/EBU', all in small print. These will remain in place always and cannot be removed. You can customize each input by brand name or anything other name you would like to use to identify a particular component.



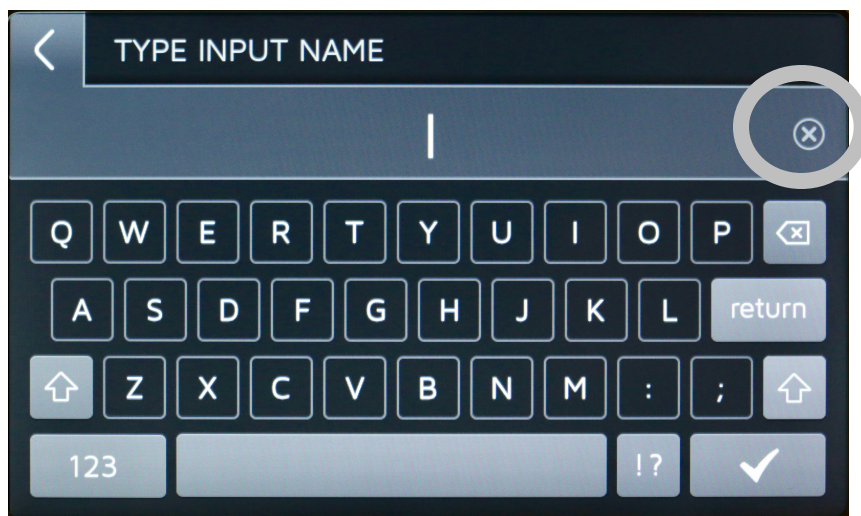
INPUT OPTION

- There are 21 input options, however, you may not want to see all the icons. From the Input Screen, you can select 'Hide' on the left or 'Show' on the right.
- Selecting 'Hide' will remove the input icon from the main home screen.

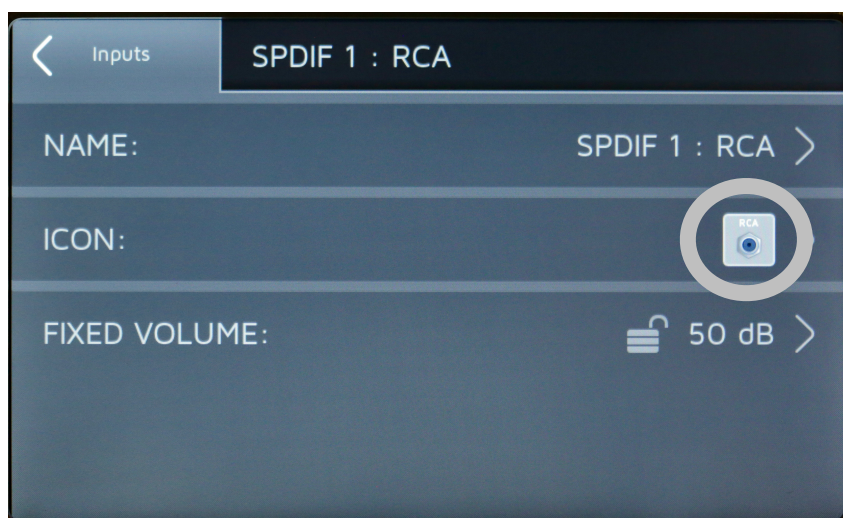


NAME AN INPUT

Press '>' to activate the input customization screen. Then press anywhere in the 'Name' field to reveal the keyboard.



- Clear any name within the field by pressing the 'X' button on the right within the name field. Mis-typed letters can be individually removed with the backspace key on the right side of the top row of keys.
- Once word is typed out select the 'check' icon lower right



SELECT INPUT ICON

- Daemon offers a wide variety of input icons to customize the look of the of your touchscreen.
Press the icon on the 'Icon' field of your screen.



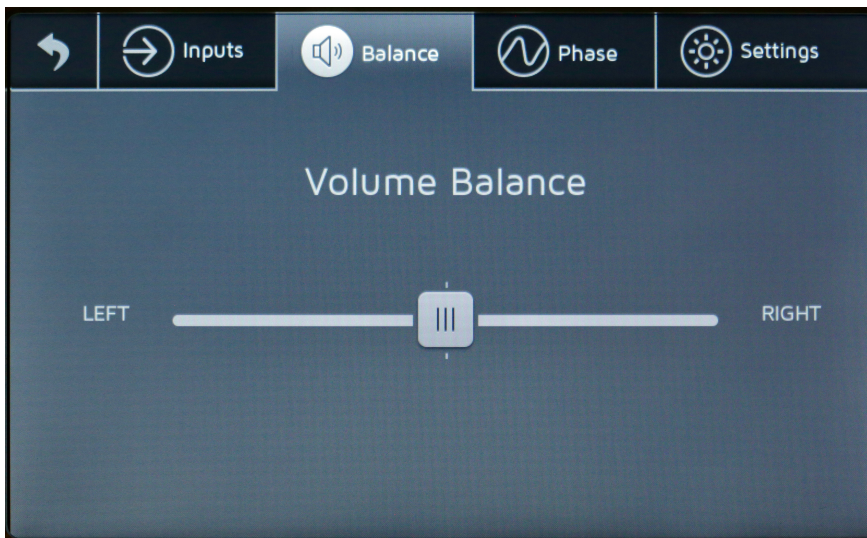
ICON LIBRARY

- Scroll through the library to select the most suitable icon for the input device you wish to identify.
- Once the icon is chosen press the return arrow upper left on the screen and see the new icon on the icon pane.



SCREEN BRIGHTNESS

- Screen brightness can be adjusted by use of the slider, left for less brightness, and right for more brightness. Screen can be set to turn off automatically at 1, 2 10, or 30 minutes by selecting corresponding buttons. Once familiar with the screen operation it is suggested that you select the one or two minute duration.
- TIP: Select less bright for a more vibrant display



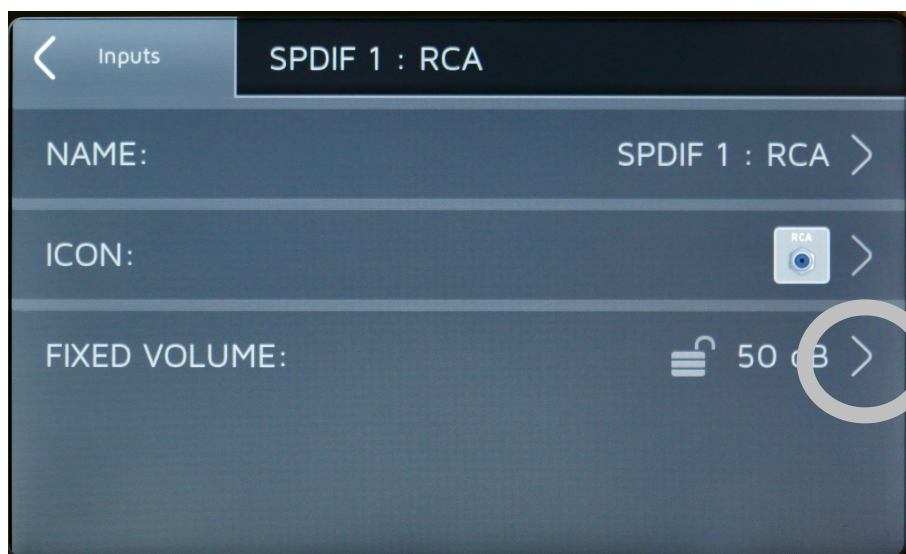
BALANCE

- Audio balance can be adjusted to the left channel by pushing slider to the left, and right channel by pushing slider to the right.



PHASE

- Inverting Absolute phase can be achieved by selecting the 180 degree button. Default positions is 0



SETTING FIXED VOLUME

- Daemon allows user to set and lock any input at a pre-set level.
- To access the 'Fixed Volume' screen, select the ">" in the fixed volume on your screen.



- Volume can be set at any level via the Volume Bezel wheel, or via the touch screen. Once desired volume is set, return to previous screen via arrow in upper left screen, then 'lock' the lock icon by touching it once.
- The volume is now locked at this level, and cannot be turned higher without unlocking the lock icon again.

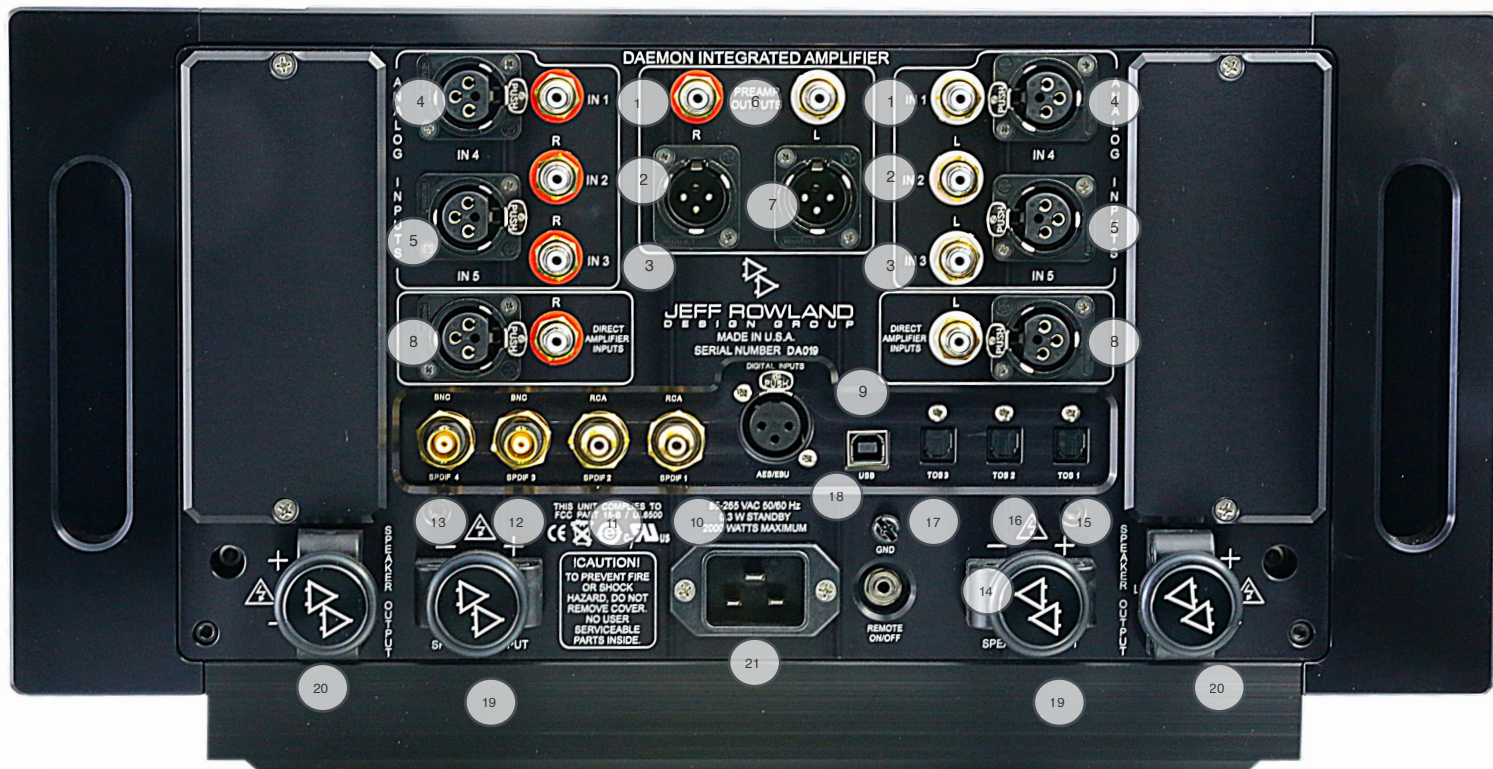
Firmware Update

From time to time, firmware updates can be made on your Daemon. Factory will supply updates to your dealer or distributor. This is a job for an authorized person. It will require access to the unit, and can take as little as 10 minutes to complete. These updates typically address minor issues with the modern architecture of the Daemon, most which will not be noticed by typical users but insure smooth continual operation of the Daemon.

Specifications

Max. Power Output	8 Ω load 1500 watts per channel
	4 Ω load 2000 watts per channel
Frequency Response	10 Hz - 70 kHz
THD+N	< 0.05% (20 Hz. to 20 kHz). typically 0.004% @ 1 kHz, 1 watt
CCIF	18 kHz +19 kHz, 10 W, 0.001%
Dynamic Range	120 dB, A weighted
Maximum Output Current	30A
Absolute Phase	Non-Inverting (pin 2 positive)
Analog Inputs	3 RCA/ 2 XLR
Digital Inputs	4 SPDIF/1 AES/EBU / 3 Toslink/1 USB
Volume Control Range	99.5 dB
Dims (h/w/d)	9.25" x 17.5" x 17.25" / 235x445x438
Weight	99 lbs / 44.9 kgs

Rear Panel Connections



- | | |
|-------------------------------|-------------------------------|
| 1. Input 2: RCA Analog Input | 12. SPDIF 3 BNC Digital Input |
| 2. Input 2: RCA Analog Input | 13. SPDIF 4 BNC Digital Input |
| 3. Input 3: RCA Analog Input | 14. Remote On/off Switch |
| 4. Input 4: XLR Analog Input | 15. Toslink 1 Digital Input |
| 5. Input 5: XLR Analog Input | 16. Toslink 2 Digital Input |
| 6. PreAmp Outputs RCA | 17. Toslink 3 Digital Input |
| 7. PreAmp Outputs XLR | 18. USB Digital Input |
| 8. Direct Amplifier Inputs | 19. Speaker Outputs A |
| 9. AES/EBU Digital Input | 20. Speaker Outputs B |
| 10. SPDIF 1 RCA Digital Input | 21. 20 Amp AC Inlet |
| 11. SPDIF 2 RCA Digital Input | |

Bluetooth Remote

Remote Operation

The Daemon remote is equipped with a wireless Bluetooth remote transmitter suitable for easy adjustment of most functions required while listening to the Daemon.

- 1) **Display Dim.** Press the DIM button to turn screen off, press again to turn the screen on again.
- 2) **VOL+** Pressing **VOL+** will increase the volume. **VOL -** pressing **VOL -** will decrease the volume.
- 3) **Mute** Pressing **Mute** will mute the volume.
- 4) **Input** Pressing left **Input** button will move icons from left to right, Pressing right **Input** button will move icons from right to left.
- 5) **BAL** Pressing left **BAL** button will adjust balance to the left channel- Pressing right **BAL** button will adjust balance to the right channel.
- 6) **PHASE** Pressing **PHASE** button will reverse phase on all inputs.
- 7) **STANDBY** Pressing **STANDBY** button will put DAEMON into standby mode.



The Daemon remote control device is based on the Bluetooth Low Energy standard, (BTLE). This standard is commonly used on consumer devices, such as phones, and tablets. Unlike IR remotes, BTLE devices can be used from the next room as far as the signal can be detected by the Daemon. There is a limit of 3 devices total to be used to control the Daemon, so the supplied handset, can be used with two other devices, such as an iPhone or iPad.

Handset

Handset will be sent without batteries installed. Upon battery installation, LED will blink once every second to indicate handset is not connected (Paired) to Daemon.

Pairing Handset

1. Press Mute button on Daemon for 5 seconds and release.
2. Press Mute button on Handset for 5 seconds and release.

The handset LED should now blink 4 times slowly to confirm pairing. If not, repeat above process.

LED indications

1. Unpaired: One blink two seconds apart.
2. Paired but out of range: Two blinks, two seconds apart.
3. Establishing pairing: 4 slow blinks.
4. Battery low: Illuminated constantly, indicating time to change batteries
5. Battery Dead: No light at all, change batteries.
6. After battery change: Blinks fast constantly until pairing is re-established.

NOTE: Remote will continue to blink if Daemon has no mains power.

When handset is paired with Daemon, the handset will blink once when briefly pressing any button.

When handset is paired with Daemon, the handset will blink rapidly when prolonged pressing of any function buttons of Balance, Volume or Input.

Troubleshooting handset

In the event of problems with handset a soft reset should rectify any remote issues you may have.

1. Put the Daemon in Standby by pressing 'Standby' button on the Daemon face.
2. Disconnect the Daemon power cord for about 20 seconds.
3. Reconnect power cord. After about 30 seconds, the connection to handset should be renewed,
4. If this does not work, you will need to remove pairing from Daemon and handset by pressing 'Mute' button on remote for 30 seconds and releasing and then pressing the 'Mute' button on the Daemon faceplate for 30 seconds and releasing. This removes the pairing list registered internally on the Daemon. Then initiate the original pairing process.

Quick Start

Important to note your Daemon can be remotely controlled by an iOS device, such as an iPhone, iPad, or iTouch. The free app is available at the Apple App store. Look for 'JRDG Remote'. Download app on your iPhone, iPad or iTouch device.

Set up your bluetooth.

- 1) Start Daemon
- 2) On iOS device, In Settings, turn on Bluetooth
- 3) Open Daemon App on your device
- 4) Hold MUTE button on the Daemon for 5-10 seconds
- 5) Bluetooth Request Dialogue pop-up will appear on your device.
- 6) Select 'Pair'

Subsequent start

iOS First start

1. Turn on Daemon
2. In Settings confirm Bluetooth is on, if not on, turn on Bluetooth
3. Look for Jeff Rowland Daemon Device. It should say 'Not connected'
4. Open Daemon Ap. Ap will 'see' Daemon in just a few seconds.

Changing Devices

Activate a different device

1. You must 'Forget' previous devices in Settings > Bluetooth by Pressing 'i' and when prompted 'Forget' device.
2. Then follow instructions above for 'First Start'.

