Cantata C50 Amplifier

Getting Started Guide

Safety Information

CAUTION

RISK OF ELECTRICAL SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK,
DO NOT REMOVE COVER.
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with an arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

- Check that the operating voltage of your unit is identical to that of your local power supply.

- Replace fuses only with identically rated fuses.

- To reduce risk of electrical shock, keep the unit dry and grounded. Do not operate the unit near water.

- If the unit causes RF interference with another product, move one unit or both until the interference is eliminated. If the interference cannot be sufficiently reduced, cease operation and consult Resolution Audio.

- Clean the chassis, faceplate, and controls with a soft cloth lightly moistened with mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent such as alcohol or benzine.

- Do not discard the original box and packing materials. When shipping the unit to another location or for repair work, repack in original material.

- Do not attempt to service this product. All servicing should be referred to qualified service personnel.

- Do not install the unit in a location near heat sources such as radiators or heat ducts, or in a place subject to mechanical vibration or shock.

Warranty Information

Resolution Audio warrants the Cantata C50 Amplifier against faulty workmanship or defective materials for a period of three (3) years from date of shipment, with the exception of transport mechanisms. Transport mechanisms are covered for one (1) year. If a defect occurs within this period, Resolution Audio will repair, replace, or issue a credit for the product at our discretion. Prior to return, authorization is required. All merchandise must be returned in the original packing material with all accessories. If a product is recalled and it is not returned within 90 days, the warranty is void. This warranty is not transferable. Resolution Audio assumes no responsibility for defects resulting from misuse, neglect, improper installation, unauthorized repair, alteration, inadequate packing, or accident. No other obligations expressed or implied shall be assumed by Resolution Audio.

Unpacking

After unpacking your Cantata C50 Amplifier, inspect it for any shipping damage and contact us immediately if any is found. Do not plug the unit into any outlet if you discover any shipping damage.
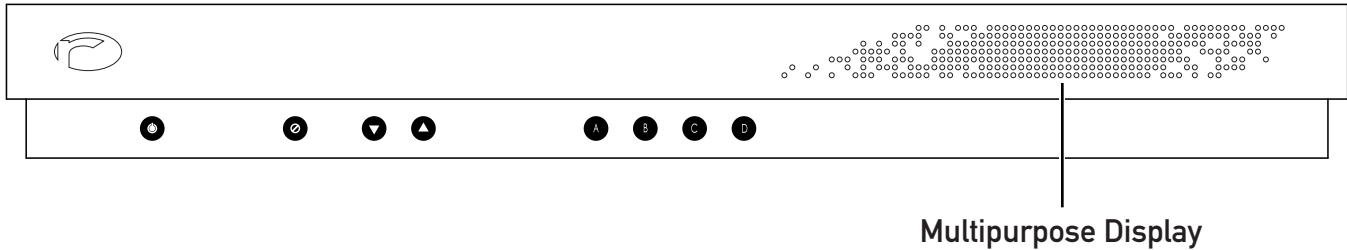
Please keep all packing materials for future transport of your amplifier, and please do not detach the foam from the inside of the shipping crate. The crate is designed for easy reuse should it be needed and is well-tested to ensure the safety of the device. Shipping the unit in anything other than its original crate may result in damage that is not covered by warranty. If you require a replacement crate or other packing materials, please contact Resolution Audio.

In addition to the unit itself, the following items are also included: mains power cord, Cantata Link cable, remote control, and (2) AAA batteries for the remote control. To install the batteries in the remote control, open the cover on the back of the remote, insert the batteries in the orientation shown inside the compartment, and replace the cover.

Installation

1. Turn off any associated components prior to connecting the Cantata C50 Amplifier. This minimizes the chance of momentary electrical surges disturbing your system.

2. Set the power switch on the rear of the unit to the OFF position, attach the power cord and connect it to your electrical outlet. (The OFF position is selected when the "O" symbol on the switch is depressed.)

3. Connect the analog outputs of your source device to your C50 amplifier via RCA or XLR interconnects.

4. Connect your speakers to the respective outputs on the rear of the amplifier.

5. If you are using the Cantata Music Center, we recommend linking the two devices with the supplied cable.

6. Turn on the rest of your system. It is a good habit to turn the amplifier on last, and off first, to prevent surges and transients from reaching your loudspeakers.

7. Turn on the main power switch on the rear panel of the Cantata C50 Amplifier. (The ON position is selected when the "I" symbol on the switch is depressed.) The unit will begin in low-power standby mode. Press the standby button on either the front panel or the remote control. The unit will take a few seconds to initialize. Volume level is factory-set to a low level (30), then restores to the previous volume level on exiting standby.

8. Change the input of the amplifier to match the desired source (A, B, C, D). If your source device is playing music and all connections are correct, you should hear music. If not, check connections, power, and input selections again.

Front Panel

Multipurpose Display

Standby – Toggles the player between normal operation and standby.
In standby, the unit enters a low-power mode while retaining volume and input settings.

Mute – Mutes playback, and blinks the current source and volume level. Pressing again will resume playback at the previous volume setting.

Volume Up / Down – Pressing these buttons increases or decreases the volume level by one step. Holding these buttons will rapidly increase or decrease the volume setting.

Inputs – Chooses from the 4 analog inputs labeled A, B, C, D.

Multi-purpose Display – Displays current input source label letter and volume level. Blinking indicates the unit is currently in "Mute" mode.

Remote Control

In addition to the controls found on the front of the Cantata C50 Amplifier, the remote control also contains the following functions:

⚙ **Display Brightness** – Cycles between bright, normal, dim, and off. In the "off" mode, any other key press will set the brightness to normal for several seconds, then return to off automatically.

∿ Analog **Analog** – Cycles between the 4 different input channels (A, B, C, D) For selection of analog inputs on Cantata Series amplifiers only.

The functions below apply only to the Cantata Music Center and have no function on the C50 Amplifier.

▲ **Eject** – Ejects a CD from the transport.

0,1,2…9 **Numbers 0-9** – Accesses tracks by number. (CD playback only)

◄◄ ►► **Scan Forward / Back** – Moves playback forward or backward. (CD Only)

■ **Stop** – Stops playback. (CD Only)

❚❚ **Pause** – Pauses playback. Pressing Pause or Play will resume playback. (CD Only)

► **Play** - Begins or resumes playback. (CD Only)

↻ **Repeat** - Cycles between Off ▸ Repeat Disc ▸ Repeat Track. (CD Only)

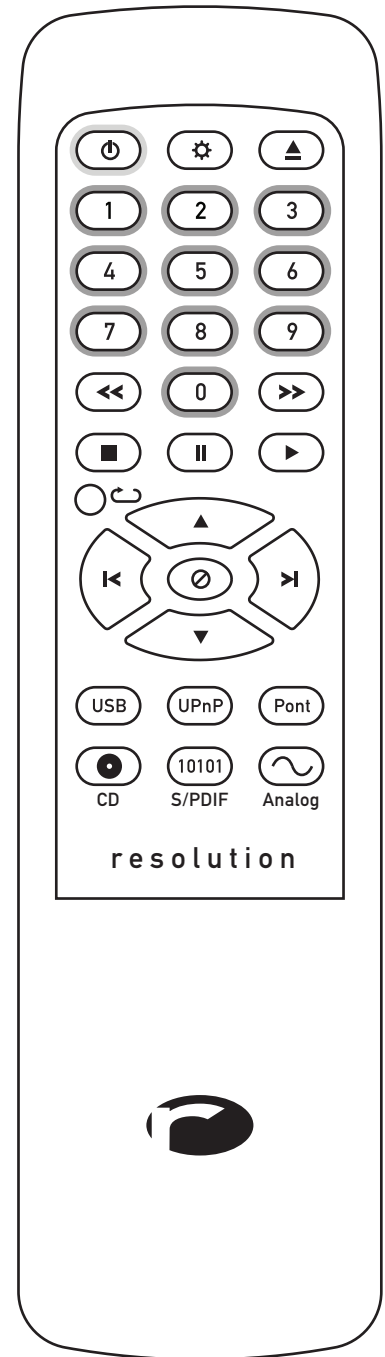USB Switches the unit to USB playback mode.

UPnP Switches the unit to UPnP (network storage) playback mode.

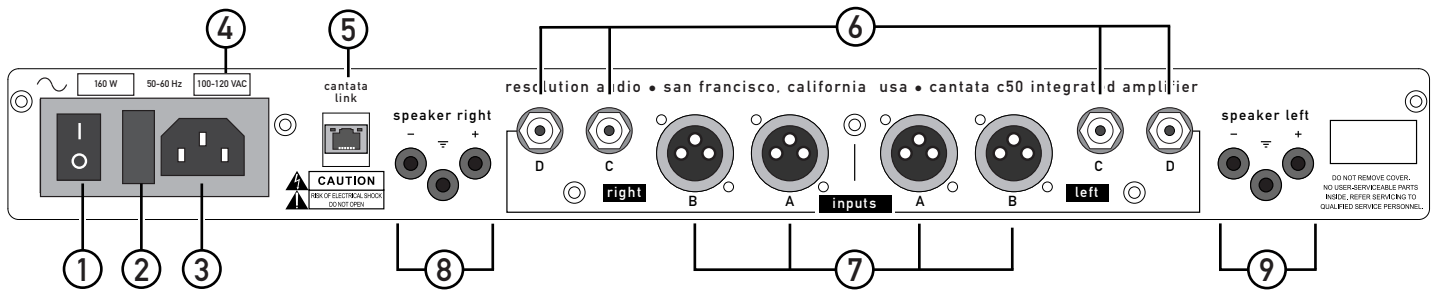Pont Switches to playback via the Resolution Audio "Pont Neuf".

◉ CD Switches the unit to CD playback.

10101 S/PDIF Switches from any other playback mode to S/PDIF inputs. Pressing repeatedly will cycle between AES ▸ Toslink ▸ Coax inputs.

Rear Panel

Power Connections and Controls

1 **Power Switch** – When off, power is completely disconnected from the player.

2 **Fuse** – Replace only with time-lag fuse, IEC 60127 Type 3
   Rating – 100-120 VAC use 1.6 A, for 200-240 VAC use 800 mA

3 **Mains power** – Connect to mains using IEC power cord.

4 **Voltage Indication** – Be certain the Cantata C50 Amplifier has been configured for your local mains voltage.

Communications

5 **Cantata Link** – Links Cantata series products allowing communications between the units. Use only the cable supplied with Cantata series products for this connection.

Analog Inputs

6 **RCA** – Connect to unbalanced source. 10 Vrms maximum, 10 kOhm input impedance.

7 **XLR** – XLR female connector, pin 2 non-inverting, pin 3 inverting
   Connect to balanced source. 20 Vrms maximum, 20 kOhm input impedance (10 kOhm per phase).

Analog Outputs

8 **Speaker Output, Right**, 4mm Banana

9 **Speaker Output, Left**, 4mm Banana

Observe polarity (red +, blue –). Connect the center (yellow) jack to loudspeaker ground if available.

Cantata Link

The Cantata Link is a cable which connects the Cantata Music Center and Cantata C50 Amplifier together activating several exclusive integration features between the two devices. When using the devices together, we strongly recommend that the Cantata Link cable be used.

Note: Use only the supplied cable to connect the devices together. If a replacement cable is required, or a different length is needed, please contact your dealer or Resolution Audio.

With the cable in place, the following features are activated:

1. Centralized remote control functions – The Music Center takes over the task of handling remote control commands, allowing the C50 to be placed out of sight if desired.

2. Mute – Mutes speaker-level outputs in the amplifier.

3. Display Brightness – Changes display brightness on both devices.

4. Music Center Input – If you have the Cantata Music Center attached to the C50, choosing a different music source on the Music Center can automatically switch the C50 to the input being used for the Music Center. (See Music Center Input below.)

5. The Cantata Music Center bypasses its internal volume control, setting its output to maximum. Volume control is handled exclusively by the C50 when the Cantata Link is detected. While changes in volume level are displayed on both devices, only the output level of the amplifier is changed. Note that if the Cantata Link cable is not present, the remote control will affect volume level in both units.

IMPORTANT NOTE: Use of the Cantata Link will set the Cantata Music Center output to full volume and shift speaker volume control to the C50 amplifier. If you have an additional amplifier connected to the Music Center, this will result in full-volume output being sent to the other amplifier.

Music Center Input

To make use of the automatic source-switching function, the amplifier must be configured for the input connected to the Music Center. When input sources on the Music Center are selected, the amplifier will switch to the dedicated input automatically.

To set the Music Center Input, press and hold the respective input button on the front of the amplifier for 5 seconds. The source letter on the display converts to upper case indicating that this is now the Music Center Input. This setting may be changed to a different input at any time.

This setting is saved when the unit is placed in standby mode.

Thermal Protection

If the amplifier temperature gets too high, the amplifier will activate thermal protection which consists of the following:

1. The output will be muted allowing the circuitry to begin cooling. Releasing mute is prohibited.
2. The display will blink "Hot" to indicate protection has been triggered.
3. Apart from placing the unit into standby mode and dimming the display, no other actions are permitted until the unit has cooled.

Once the amplifier has cooled sufficiently, it will automatically resume operation in a muted state at the previous volume level. Normal operation may be resumed by exiting mute.

If the unit consistently overheats, consider relocating the unit for better air circulation or to a cooler environment.

Specifications

Dimensions:	43 x 22 x 5 cm (net) / 54 x 33 x 22 cm (shipping)
Weight:	5.5 kg (net) / 12 kg (shipping)
Power Requirements:	Preconfigured at factory
	100-120 / 200-240 VAC, 50-60 Hz
Power Consumption:	160 Watts maximum active mode, < 1 Watt standby mode
Inputs:	
Balanced:	2 pairs, XLR
Single-Ended:	2 pairs, RCA
Outputs:	
Speaker:	1 pair, 4mm bananna
	Red – positive (+)
	Blue – negative (−)
	Yellow – ground (if available on loudspeaker)
Power Output:	50 Watts into 8 Ohms
Maximum Gain:	+26.5 dB at volume level 100
Analog Attenuation:	0.5 dB steps from -30 dB to maximum
	1.0 dB steps from -70 dB to -31 dB

resolution