peachtree

Carina GaN

IMPORTANT SAFETY INSTRUCTIONS

❶ Read these instructions – All the safety and operating instructions should be read before this product is operated.

❷ Keep these instructions – The safety and operating instructions should be retained for future reference.

❸ Heed all warnings – All warnings on the appliance and in the operating instructions should be adhered to.

❹ Follow all instructions.

❺ Do not use this apparatus near water – The appliance should not be used near water or moisture –for example, in a wet basement or near a swimming pool, and the like.

❻ Clean only with dry cloth.

❼ Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

❽ Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifers) that produce heat.

❾ Do not defeat the safety purpose of the polarized or grounding plug. A polarized plug has two blades with one wider than the other. A grounding plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

❿ Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.

⓫ Only use attachments/accessories specifed by the manufacturer.

⓬ Use only with the cart, stand, tripod, bracket, or table specifed by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

⓭ Unplug this apparatus during lightning storms or when unused for long periods of time.

⓮ Refer all servicing to qualifed personnel. Servicing is required when the apparatus has been damaged in any way such as the power cord or plug is damaged. Other damage may occur if liquid or objects have been dropped or spilled into the apparatus. Dropping the apparatus, exposure to rain, and excessive moisture may cause additional damage.

⓯ Please keep the unit in a good ventilation environment.

⓰ CAUTION: These servicing instructions are for use by qualifed service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualifed to do so.

⓱ 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 objects flled with liquids, such as vases, shall not be placed on apparatus.

⓲ WARNING: The mains plug/appliance coupler is used as disconnect device, the disconnect device shall remain readily operable.

⓳ The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to presence of on-insulated hazard voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

WARNING: To reduce the risk of electric shock, do not remove cover (or back), as there are no user-serviceable parts inside. Refer servicing to qualifed personnel.

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

⓴ No naked flame sources, such as lighted candles, should be placed on the apparatus.

㉑ Batteries are included for the remote control. Do not expose these batteries to direct sunlight or excessive heat such as a fire. Care should be taken in the act of battery disposal as they include toxic materials that may harm the environment. Please refer to your local recycling and hazardous waste center for advise with battery disposal.

㉒ WARNING: The terminals marked with symbol of "+/-" may be of sufficient magnitude to constitute a risk of electric shock. The external wiring connected to the terminals requires installation by an instructed person or the use of the ready-made insulated leads of cords.

㉓ 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 retailers where the product was purchased. The can take this product for environmentally safe recycling.

Unpacking and Warranty

❶ Please keep all packing materials for any potential shipping needs.

❷ Please keep a copy of the sales receipt and note the serial number on it for warranty and insurance purposes.

❸ Please register your product online at www.peachtreeaudio.com.

Marking by the “CE” symbol (shown left) indicates compliance of this device with the EMC (Electromagnetic Compatibility) and LVD (Low Voltage Directive) standards of the European Community.

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. The 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 the 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

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.

FCC Radiation Exposure Statement
This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure

Carina

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INTRODUCTION

Thank you for choosing Peachtree Audio!

Carina GaN is an integrated amplifier platform designed to please your ears and eyes. Housed in a beautiful chassis crafted of aluminum and wood, Carina is several audio components in one; a Digital-to-Analog Converter (DAC), preamplifier, power amplifier and headphone amplifier.

Carina GaN includes audio inputs for multiple sources; USB-C for a computer or mobile device, Bluetooth for wireless devices, two coaxial inputs and one optical input for wired digital audio devices such as streamers or CD transports. Carina GaN also includes a multi-functional analog input with a built-in phono preamplifier for turntables with Moving Magnet (MM) cartridges. This input can even be switched to bypass the internal phono preamp when using an external phono preamp (required for Moving Coil cartridges) or when using the input as a "Home Theater Bypass" for integration with an AVR or preamp/processor! A variable stereo analog output is provided for integration with one or two subwoofers or an external power amplifier. A 12V trigger input and output are provided to automatically power on/off Carina with another device.

Internally, Carina GaN features a 32-bit architecture that is capable of handling all of the major digital audio formats available today from compressed audio all the way up to 24-bit/768kHz PCM and DSD512 (22.6MHz aka octuple rate DSD)! Carina GaN utilize two separate ESS 9068 DAC chips in "mono mode" with one dedicated to the left channel and the other to the right channel to maximize the signal-to-noise ratio, dynamic range and channel separation of the system. The menu provides access to primary DAC settings for fine-tuning the sound even further. The internal analog architecture of Carina is fully balanced so audio signals are protected from external sources of noise and interference.

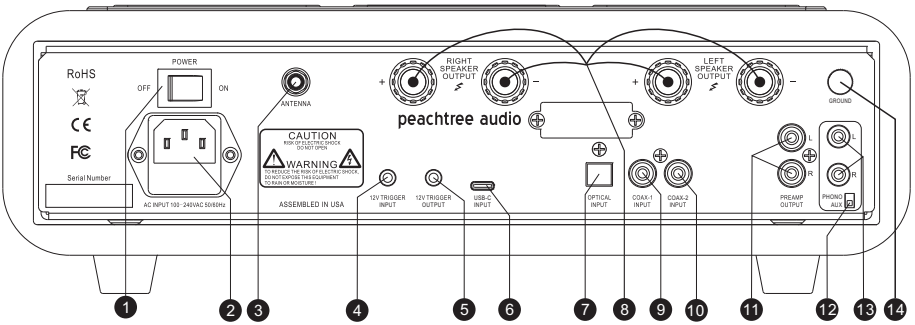
Carina GaN utilizes a Gallium-Nitride "power DAC" amplifier to achieve remarkable transparency and sound quality. It is driven directly by the digital output of the DSP and does NOT utilize a feedback loop which alters the audio signal driving the speakers. The audible improvement is immediately noticeable and significant, even to a casual listener. The DAC section in Carina GaN provides the analog signal for the headphone amplifier and the preamplifier output. This novel implementation of a GaN-FET power DAC in an integrated amplifier results in sound quality that was previously only attainable by much larger, heavier and more expensive solutions. Carina GaN is capable of driving speakers with a nominal impedance between 2.5Ω to 16Ω and have ample power to properly drive the vast majority of speakers available today to their full potential while delivering deep, tight bass and transparent, natural upper frequencies that do NOT induce listener fatigue.

Carina GaN also features a premium-quality, fully-balanced headphone (HP) amplifier that provides an exceptional listening experience through headphones. It has an extremely low noise floor so the music is reproduced clearly and cleanly. The HP amplifier includes a traditional 1/4" unbalanced output and a 4.4mm T/R/R/R/S "pentaconn" output for balanced headphones. The headphone amplifier is not just provided as a convenience, it is designed as a high-performance internal component that compares favorably with stand-alone devices.

Please continue reading this manual and visit www.peachtreeaudio.com to register your unit to extend your warranty at no charge! Your information will NOT be shared or sold. We sincerely hope that Carina GaN brings you many years of listening enjoyment. Thank you again for choosing Peachtree Audio!

- The Peachtree Audio Team

BACK PANEL



❶ POWER ON/OFF Switch

Connects and disconnects AC power to the unit when the power cord is connected between the **AC INPUT** and a 100-240VAC 50/60Hz AC outlet.

❷ AC INPUT & Fuse Holder

For connection to a 100-240 VAC 50/60 Hz AC outlet using the included power cord. The fuse should only be replaced after turning the **POWER** switch **OFF** and removing the power cord from the **AC INPUT.** See the **SPECIFICATIONS** section for the specific fuse values required. Caution: using an improper fuse value may cause damage to the unit. Peachtree Audio does **NOT** accept responsibility for any damage caused by the use of an improper fuse value.

❸ ANTENNA Connector

Provides an external antenna connection to maximize the reception range from Bluetooth enabled devices. Bluetooth will function without the antenna attached, but for maximum range we suggest using it and trying different angles to achieve the longest range.

❹ 12V TRIGGER INPUT

Enables power on/off control from another product with a 12V trigger output. Insert one end of a 3.5mm cable into this input and connect the other end to a 12V trigger output of the product that will control it. Once connected, The unit should power on and off along with the product controlling it. The input trigger can be configured in the **MENU** to power on the unit **AND** select specific input(s).

❺ 12V TRIGGER OUTPUT

Enables power on/off control to another product with a 12V trigger input. Insert one end of a 3.5mm cable into this output and connect the other end to a 12V trigger input of the product that will be controlled by it. Once connected, the unit can power on and off the product controlled by it.

❻ USB-C INPUT

Accepts digital audio input up to 32-bit/762KHz PCM & octuple DSD (aka DSD512). Windows users note: to enable ASIO, WASAPI, or DSD playback, along with “exclusive mode”, Please visit http://www.peachtreeaudio.com/usb-drivers-and-firmware and download the latest version.

❼ OPTICAL INPUT

Accepts S/PDIF digital audio input from an optical (Toslink style) output up to 24-bit/192kHz PCM.

❽ RIGHT & LEFT SPEAKER OUTPUTS

Speaker wire binding post outputs that accept banana connectors (insert into hole on back of the post), spade connectors (loosen, position spade around post, tighten), pin connectors (loosen, insert pin through hole on post, tighten) or bare wire connections (loosen, loop around post or insert through the hole on the post, tighten). See the diagram on the following page for more details.

❾ COAX-1 INPUT

Accepts S/PDIF digital audio input from a coaxial (RCA style) output up to 24-bit/192kHz PCM. For best results, please use a 75 Ohm cable with RCA style ends designed for carrying digital audio or video signals. A regular audio cable (typically 50 Ohm) will work but it is not ideal for this type of connection.

❿ COAX-2 INPUT

Accepts S/PDIF digital audio input from a coaxial (RCA style) output up to 24-bit/192kHz PCM. For best results, please use a 75 Ohm cable with RCA style ends designed for carrying digital audio or video signals. A regular audio cable (typically 50 Ohm) will work but it is not ideal for this type of connection.

⓫ PREAMP OUTPUT

Provides a variable analog audio output to connect to a powered subwoofer or an external power amplifier. Note: the **RIGHT & LEFT SPEAKER OUTPUTS** remain active when the **PREAMP OUTPUT** is used and both sets of outputs are automatically muted when the mute function is engaged or when headphones are connected via the front panel.

⓬ SELECTOR SWITCH

PHONO utilizes the internal Moving Magnet (MM) phono preamplifer. AUX bypasses the internal MM phono preamp for use with an external phono preamp (required for a Moving Coil cartridge) or to use the input for Home Theater Bypass or other "line-level" analog input types. See the Home Theater Bypass section for more details on how to setup and use this feature.

⓭ ANALOG AUDIO INPUT

Accepts analog audio input from a turntable equipped with a Moving Magnet (MM) cartridge or other "line-level" analog audio sources. See the Home Theater Bypass section for more details on how to setup and use this feature.

⓮ GROUND

Ground connection for a connected phonograph/turntable or REL brand subwoofer.

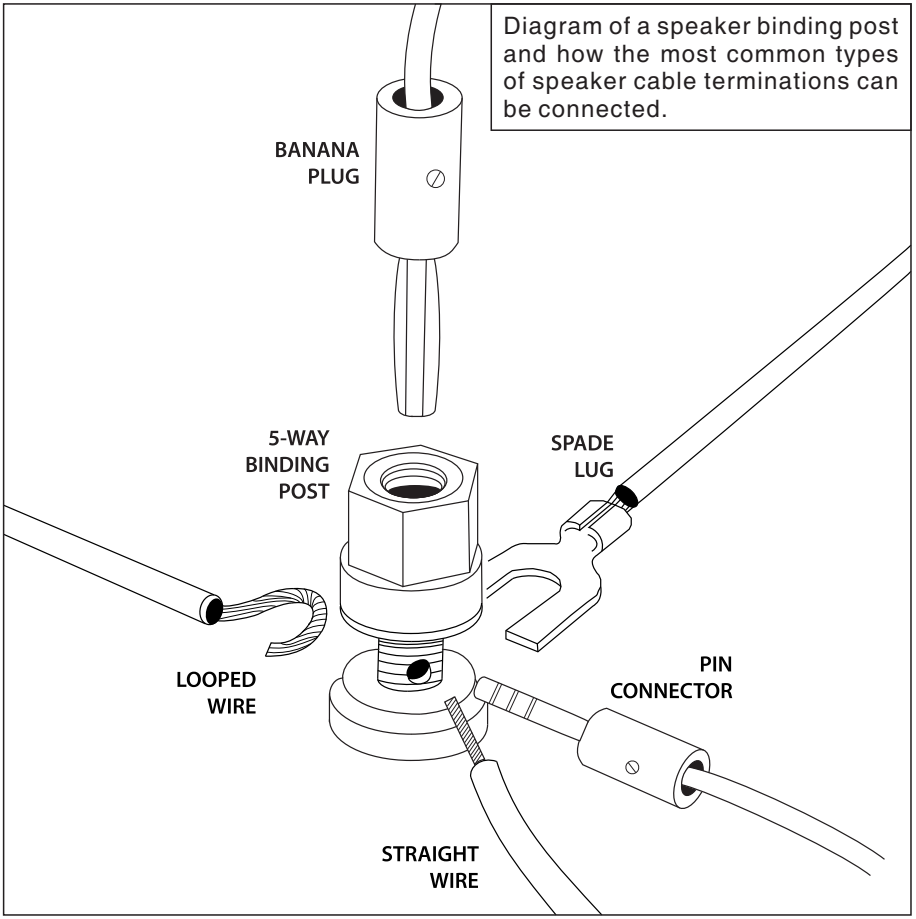
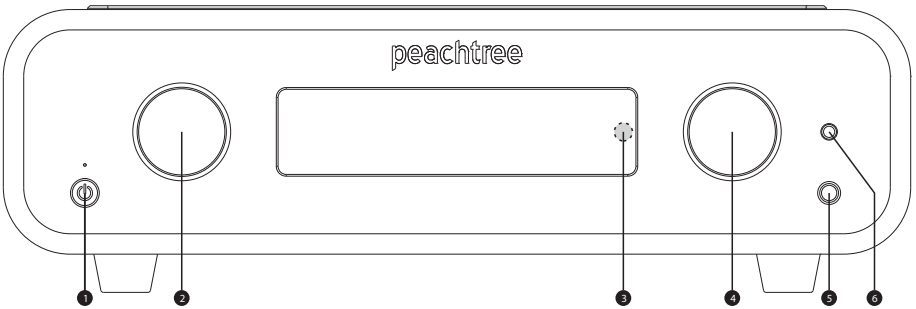


Diagram of a speaker binding post and how the most common types of speaker cable terminations can be connected.

FRONT PANEL



❶ **On/Standby Button**
Toggles the unit between on mode (green LED) and standby mode (red LED). Note: AC power cord must be connected and rear panel **POWER** switch set to **ON** for this button to function.

❷ **Left knob**
Rotate in either direction to select the desired input. Push and hold for ~3 seconds to enter the **MENU**. Rotate to move the option selection arrow up or down. Rotate the **Right knob** to change the setting of the currently selected option. To exit the **MENU**, press and hold this knob for ~3 seconds.

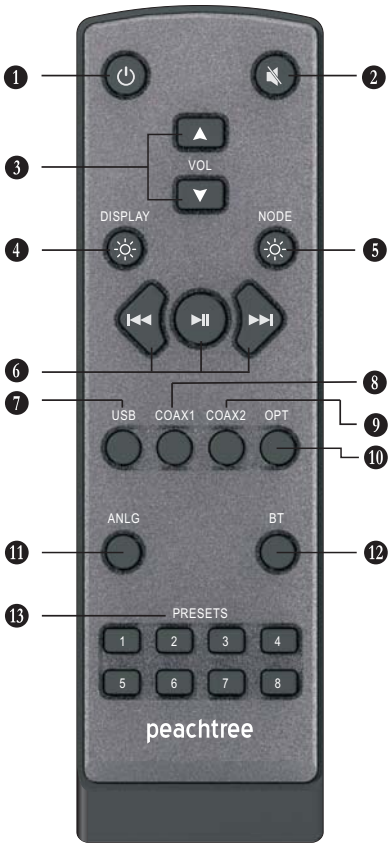
❸ **IR Receiver** (concealed behind the front panel display window)
For receiving Infra-Red (IR) commands from the included hand-held remote control or third-party remote control system by attaching an IR transmitter on the display in front of the IR Receiver.

❹ **Right knob**
Rotate clockwise or counter-clockwise to increase or decrease the volume/ output level. Push and release to mute and unmute the output. When in the **MENU**, rotate to change the setting of the currently selected option.

❺ **1/4" Unbalanced Headphone Output Connection**
Inserting a headphone connection automatically mutes the **RIGHT & LEFT SPEAKER** and **L & R PREAMP OUTPUTS**. Removing a headphone connection automatically un-mutes the **RIGHT & LEFT SPEAKER** and **L & R PREAMP OUTPUTS.** Caution**:** please lower the output level when inserting or removing headphone connections as headphone sensitivity varies widely and a comfortable speaker listening level may result in a significantly louder output level when switching to headphones.

❻ **4.4mm Balanced T/R/R/R/S (aka Pentaconn) Headphone Output Connection**
Inserting a headphone connection automatically mutes the **RIGHT & LEFT SPEAKERS** and **L & R PREAMP OUTPUTS**. Removing a headphone connection automatically un-mutes the **RIGHT & LEFT SPEAKERS** and **L & R PREAMP OUTPUTS.** Caution: please lower the volume / output level when inserting or removing headphone connections as headphone sensitivity varies widely and a comfortable speaker listening level may result in a significantly louder output level when switching to headphones.

REMOTE CONTROL



❶ **On/Standby Button**
Toggles the unit between on mode and standby mode.

❷ **Mute Button**
Toggles the mute function on and off.

❸ **Volume Up & Down Buttons**
Increase and decrease the volume / output level.

❹ **Display Brightness Button**
Steps the brightness of the front panel display through the available settings.

❺ **Bluesound NODE Display Brightness Button**
Steps the brightness of the lights on a Bluesound NODE/VAULT through the available settings.

❻ **Transport Control Buttons**
Controls compatible BluOS devices, such as the Bluesound Node, Vault etc.

❼ **USB Button**
Selects the **USB-C INPUT.**

❽ **COAX1 Button**
Selects the **COAX-1 INPUT.**

❾ **COAX2 Button**
Selects the **COAX-2 INPUT.**

❿ **OPT Button**
Selects the **OPTICAL INPUT.**

⓫ **ANLG Button**
Selects the **ANALOG INPUT.**

⓬ **BT Button**
Selects the **Bluetooth INPUT.**

⓭ **Presets 1-8**
Selects presets 1-8 in a Bluesound NODE. Search "How to Create a Preset in BluOS" online for detailed instructions on how to set these up. This feature is incredibly helpful for those that use a BluOS streamer!

MENU

❶ **PCM filter**

L-FAST is a **L**inear phase **FAST** roll-off filter. It is the most common type of digital filter and is the most accurate and neutral acoustically.

H-FAST is a Hybrid **FAST** roll-off filter. The length of the pre-ringing is shorter and more consistent than the length of the post-ringing which is more like musical instruments.

M-SLOW is a Minimum phase **SLOW** roll-off filter. It has smooth out-of-band attenuation characteristics, and because of its in-band attenuation characteristics, it has a smoother overall sound.

Each filter has an objective (measurable) and subjective (audible to most) affect on the sound. We encourage you to audition all three filters to determine the one that sounds the best to you. Most people will experience the differences in high-frequency reproduction where they are more readily heard. There is no "right" or "wrong" answer here, its all about personal preference, room acoustics and the characteristics of your speakers...

❷ **NOS MODE**

ON bypasses the oversampling feature in the DAC, sending the original digital signal straight to the modulator. This mode is useful if you want to experiment with any software-based oversampling features in products like Roon, etc. **OFF** engages the 8x oversampling feature in the DAC.

❸ **BT POWER**

BT INPUT powers up internal Bluetooth radio only when the unit is on and the Bluetooth input is selected. **ALWAYS** keeps the internal Bluetooth radio powered up regardless of input selection.

❹ **VOLUME**

DIGITAL uses a high-quality digital audio volume attenuator.

HYBRID uses a high-quality analog resistor ladder in conjunction with a digital audio attenuator to ensure optimal performance over the entire volume range. There will be some clicking sounds from inside the unit when the relays switch as well as some audible noise through the speakers or headphones at certain level changes. This is normal and expected behavior for this type of volume control and will not cause any harm.

❺ **DISPLAY**

ALWAYS keeps the display on whenever the unit is on.

AUTO OFF turns the display off after several seconds.

❻ **BRIGHTNESS**

Sets the brightness of the front panel display. **8** is the brightest, **1** is the dimmest.

❼ **TRIGGER SEL**
INPUT & LAST
The 12V INPUT TRIGGER can be set to select one of the specific INPUT(S) or to select the LAST input used when the unit was put into standby.

❽ **SET [INPUT] VOL**
Sets the starting point for the volume / output level for each input independently. Push the right knob to select the input to affect. Rotate the right knob to change the initial volume / output level setting for THAT input. **LAST** sets the volume to the **LAST** level used when the unit was put into standby. -20, -35, -50 sets the volume level to these specific values. **FIXED** sets the unit to 0dB FS (Full Scale-zero attenuation). Please use this setting with extreme caution!

❾ **[INPUT] NAME—ANALOG, COAX-1, COAX-2, OPT**
The **ANALOG** input can be renamed: **PHONO**, **AUX** or **HTB**, the other inputs can be renamed: **CD**, **SACD**, **TV**, **STREAM**. The **USB-C** and **Bluetooth** inputs can **NOT** be renamed.

FCC Statement
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.
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.
Caution
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
FCC Radiation Exposure Statement
This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure com

USING CARINA AS A POWER AMPLIFIER

Home Theater Bypass or Volume Control Bypass

Carina includes a “FIXED” volume input mode that is designed to send the incoming signal straight to the power amplifier. All of the inputs have this option but it is especially useful when integrating Carina with an Audio-Video Receiver (AVR) or Surround-Sound Processor (SSP) to create a “Home Theater Bypass.” This allows the AVR or multi-channel amplifier to power the center and surround speakers while Carina powers the front left and right speakers. This should provide a significant improvement to the overall sound quality when watching movies and TV as the amplifier workload is distributed across two different amplifier power supplies and the amplifier in Carina is likely to be of higher quality. This feature is also useful if you would like to use the volume control in an app of a connected device to control the overall system volume for that input on Carina.

To setup Home Theater Bypass (please follow these steps in order):

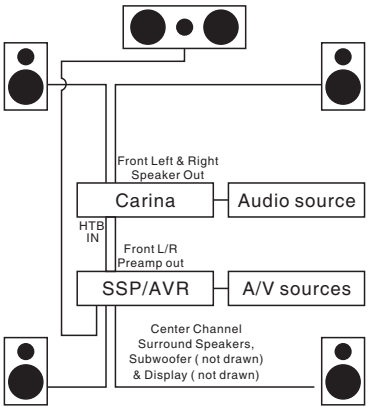
1. **Power off** the Surround-Sound Processor (SSP) or Audio-Video Receiver (AVR) and Carina
2. Connect the **front LEFT and RIGHT preamp outputs** from the SSP or AVR to the **ANALOG input** on Carina using a standard RCA style audio cable
3. On the rear panel of Carina, set the switch below the analog input to **AUX** (not PHONO)
4. If your AVR or SSP has a **12V trigger output**, connect it to the **TRIGGER INPUT** on Carina
5. Power on your AVR or SSP (and Carina if not using a trigger)
6. In the Carina menu set **TRIGGER SEL** to **ANALOG** (Skip this step if your AVR or SSP does NOT have a trigger output)
7. In the Carina menu set **ANALOG IN VOLUME** to **FIXED**
8. In the Carina menu set **ANLG NAME** to **HTB**
9. Exit the Carina menu and select the **ANALOG** input (Required if your AVR or SSP does NOT have a trigger output)
10. Power on the AVR or SSP and **re-calibrate the speakers** (this is necessary to establish the proper output levels, time delays and EQ for all of the speakers when watching movies or TV)

If you do NOT have a 12V trigger connected from the AVR or SSP to Carina, you will need to make sure Carina is powered an and set to the ANALOG input to use the Home Theater Bypass feature. If you have a 12V trigger connected, this will happen automatically whenever the AVR or SSP is powered on.

To setup Volume Control Bypass (please follow these steps in order):

1. Power on Carina
2. In the Carina menu set **[INPUT] IN VOLUME** to **FIXED** for the input you want to use the volume control bypass feature with

Caution: when any Carina input volume is set to “FIXED” in the menu, it is operating as a power amplifier (the volume control in Carina is bypassed) when that input is selected and the device connected to Carina determines the volume of the signal that is sent to the speakers. If this feature is NOT setup and used properly, significant damage to the system may occur. Peachtree Audio does NOT accept responsibility for any damage caused by the misuse of this feature.



Connect Line-level (RCA style) front left and right outputs from the AVR or SSP to the ANALOG input on the Carina.

WARRANTY AND REPAIR

International Warranty
Peachtree Audio warrants this product for two (2) years, parts and labor, from the original date of purchase from an authorized source. If you register your product online at http://www.peachtreeaudio.com/pages/product-registration the warranty is extended to three (3) years, parts and labor.

Peachtree Audio reserves the right to refuse any warranty claims if coverage cannot be verifed by a valid proof of sale or serial number.

Peachtree Audio assumes no responsibility for product failures caused by accident, neglect, misuse, modifcation or unauthorized repair.

Warranty does not cover shipping costs.

Visit www.peachtreeaudio.com for complete warranty details.

Repair Process
In the event of a product failure, please pack the unit in its original carton and contact Peachtree Audio directly (service@peachtreeaudio.com or +1-704-391-9337) to abtain a Return Authorization (RA) number before shipping the product!

Any products received without an RA number may be delayed, misdirected, or lost.

After a RA number is issued by Peachtree Audio, please ship the product using FedEx or UPS. Do NOT ship using a Postal Service! Also, do not ship the unit in a carton with insufficient or loose packing material as the cabinet will get damaged in transit and is NOT covered by Peachtree Audio.

Peachtree Audio assume no responsibility for products in transit. Please insure the shipment for the product's replacement value in the unlikely event it is lost, stolen or damaged in transit.

www.peachtreeaudio.com

SPECIFICATIONS

SPEAKER OUTPUTS

Compatible Speakers (Nominal Impedance)	
Power (8 Ω | 4 Ω, <1% THD + N, AES 17, 2 Chan Drive)	200 | 200 WPC *
Dynamic Range (AES 17)	110 dB
Frequency Response (20 - 20 kHz, 8 Ω)	
Inter-Modulation Distortion (SMPTE)	-70 dB
Total Harmonic Distortion (AES17, 1 kHz, 8 Ω)	
Channel Separation (1 kHz, 8 Ω)	>90 dB

* Carina GaN utilizes a regulated power supply which provides maximum power at 8 AND 4 Ohms.

To better understand why some Carina GaN specifications are lower than its Hypex NCore siblings, please visit:

www. peachtreeaudio. com/collections/integrated-amplifiers/products/Carina-gan

PREAMP OUTPUTS

Voltage (RMS)	2.5 V @ 0 dBFS input
Impedance	100 Ω
Signal-to-Noise Ratio (Digital | Analog, un-weighted)	114 dB | 110 dB
Channel Separation (1 kHz)	> 116 dB
Frequency Response (8 Hz - 20 kHz)	+/- 0.5 dB
Total Harmonic Distortion (2 V RMS, 1 kHz, un-weighted)	< 0.0004 %

HEADPHONE OUTPUTS

Power @ 30 Ω, (Balanced | Unbalanced)	750 mW | 220 mW
Power @ 300 Ω (Balanced | Unbalanced)	312 mW | 75 mW
Signal-to-Noise Ratio (un-weighted)	117 dB (Balanced) | 103 dB, 98 dB (Unbalanced @ 300 Ω, 30 Ω)
Dynamic Range (Balanced | Unbalanced, un-weighted)	107 dB | 100 dB
Channel Separation (1 kHz)	> 100 dB
Frequency Response (8 Hz - 20 kHz)	+/- 0.87 dB
Total Harmonic Distortion	0.005 %

PHONO/AUX SWITCHABLE ANALOG INPUT

PHONO THD + Noise	0.007 %
PHONO Impedance	47 kΩ (Suitable for MM Cartridge)
Phono Preamplifier Notes	Passive RIAA EQ, No rumble filter used
AUX THD + Noise	0.0005 %
AUX Impedance	100 kΩ

COAX & OPT (S/PDIF) INPUTS

Formats Supported	PCM 16-24 Bit, 44.1-192 kHz | DSD Over PCM (DOP) 64

USB-C INPUT

Formats Supported	PCM 16-24 Bit, 44.1-768 kHz | Native DSD 64-512, DOP 64-256

All specifcations subject to change without notice.

To be continued

SPECIFICATIONS

AC POWER

	Carina GaN
AC Input	AC 100-120V/AC200-240V 50/60Hz
Maximum Power Consumption	520 W
On Mode (Idle) Power Consumption	31 W
Standby Mode Power Consumption	
Fuse (100-120 VAC) Lower Voltage AC Outlets	6.3 A / 250 V Medium Acting
Fuse (220-240 VAC) Higher Voltage AC Outlets	3.15 A / 250 V Medium Acting

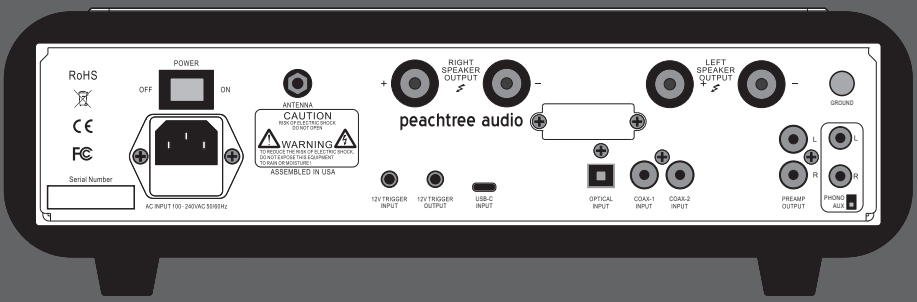
CAUTION: Using an improper fuse value may cause damage to the unit and is NOT covered by warranty.

PHYSICAL

Height (including feet)	111 mm | 4.37 inches		
Width	356 mm | 14.02 inches		
Depth (including knobs and speaker binding posts)	362 mm | 14.25 inches		
Weight (Shipping Weight) in pounds	12.3 lbs (16.3 lbs)	15.0 lbs (19.0 lbs)	14.0 lbs (18.0 lbs)
Weight (Shipping Weight) in kilograms	5.8 kg (7.4 kg)	6.8 kg (8.6 kg)	6.4 kg (8.2 kg)

All specifcations subject to change without notice.

peachtree



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