bel canto Pre5 Balanced Analog Control Preamplifier User Guide

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Contents

Important Safety Instructions

Explanation of symbols used in this manual or on the rear/underside of the apparatus:

 The Lightning Flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product enclosure that may be of sufficient magnitude to constitute a risk of 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.

TO COMPLETELY DISCONNECT THIS APPARATUS FROM THE AC MAINS, DISCONNECT THE POWER SUPPLY CORD PLUG FROM THE AC RECEPTACLE.
THE MAINS PLUG OF THE POWER SUPPLY CORD SHALL REMAIN READILY ACCESSIBLE.
Disconnect supply cord before changing fuse.
Refer servicing to qualified service personnel.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE AND OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD NOT BE PLACED ON THIS APPARATUS.

- Read, keep and follow these instructions.
- Heed all warnings.
- Do not use the apparatus near water, e.g. near a bathtub, kitchen sink, laundry tub, in a wet basement, near a swimming pool etc.
- Clean only with a dry cloth.
- Install in accordance with the Manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.

- Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type 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.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and at the point where they exit from the apparatus.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as powersupply cord or plug has been damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Mains plug: Use the mains plug to disconnect the apparatus from the mains supply. The mains plug must be accessible at all times. Use the mains switch (if applicable) when the apparatus is not in use.
- Do not expose the apparatus to liquids or moisture, dripping or splashing.
- Do not place a vessel containing liquid on top of the apparatus.
- No naked flame sources, such aslighted candles, should be placed on the apparatus.
- The apparatus has been designed for use in moderate and tropical climates

In the U.K.
Fuse replacement: This appliance is fitted with anon-rewireable 1 0 amp mains plug. The plug contains a 1 0 amp fuse. If the fuse has blown it can be replaced as follows: 1) Pull out the black fuse cover/carrier. 2) Remove and dispose of the blown fuse. 3) Fit a new 1 0 amp BSI 362 approved fuse into the carrier and push the carrier back into the plug. Always ensure the fuse cover is fitted. If the fuse cover is missing do not use the plug. Contact your Bel Canto retailer to obtain a replacement fuse cover. Fuses are for fire protection and do not protect against electric shock.

WARNING: THIS APPLIANCE MUST BE GROUNDED

FCC Notice

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.

Warranty Information

Bel Canto products are automatically covered by a 90 day factory warranty that overs all internal parts and labor. Register online (**http://www.belcantodesign.com/home/support/warranty-registration/eone/**) within 30 days of purchase from an authorized dealer to automatically extend your warranty for 2 years starting from the date of purchase. If you

do not have web access, please contact your dealer for assistance. Upon fully completing registration, within 5 business days you will receive an email that officially validates your warranty. Your information will be used for internal use only and will not be sold or released outside Bel Canto. Your comments and suggestions are appreciated and help us continually improve our products and services.

The warranty is only valid to the original owner and is non-transferable. Damage caused by unauthorized modification, abuse, or neglect of product will void your warranty. Any cost associated with return of product is the sole responsibility of the owner. All returns require a return authorization number issued after completing the RMA form in the support section of our website. If you have any questions, please feel free to contact us online at **info@belcantodesign.com**.

Unpacking the e.One Pre5

Carefully inspect each item for any visual damage. If there is any damage, or anything missing from the list below, please contact your dealer or distributor.

Packaging contains the following:

- 1 (one) — Pre5
- 1 (one) — Pre5 User's Guide
- 1 (one) — Power cord [6.6' — 1.8 meters long]
- 1 (one) — Remote Control

IMPORTANT: Save all packing materials as they are specially designed to protect the e.One Pre5 during transportation. If the packing materials are compromised, contact your dealer, distributor, or Bel Canto for proper packaging before attempting to ship.

Power Connection

⚠ **WARNING!**
DO NOT CONNECT
POWER TO THIS

Setup & Placement

The e.One Pre5 can be placed in many locations without compromise. We do not recommend placing weights or other objects directly on this product.
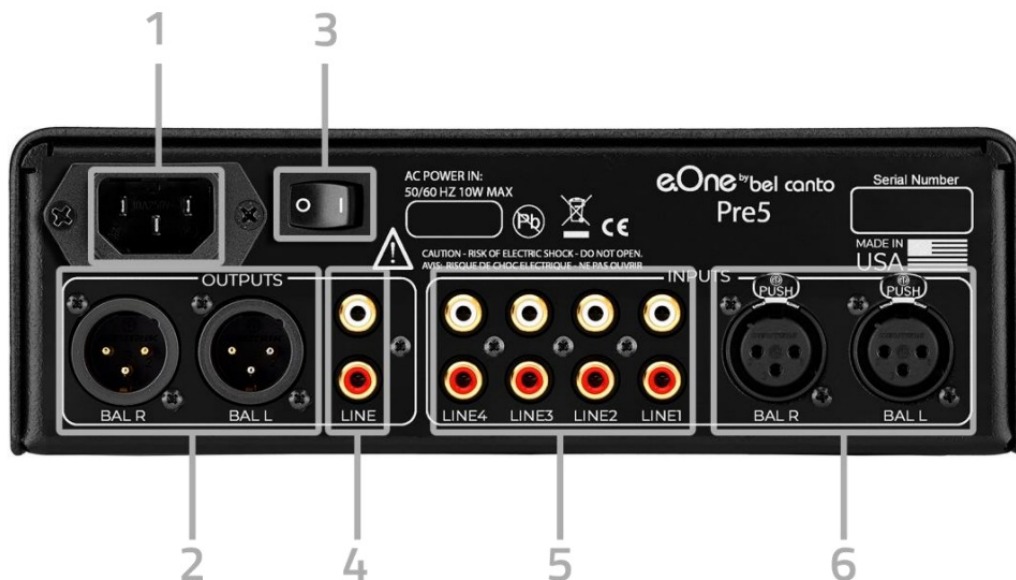
This may scratch or mar the chassis finish. Do not use harsh chemicals or abrasives when cleaning the outside. Use a clean microfiber cloth to remove fingerprints from the chassis.

Single Ended RCA and Balanced XLR connectors are available. XLR connectors follow the standard AES pin configuration:

- Pin 1 Ground
- Pin 2 Signal +
- Pin 3 Signal –

We recommend placing the e.One Pre5 in an easily accessible location near your source components.

Rear Panel Connections

IMPORTANT: Read the full manual before connecting to AC power

1. IEC Inlet. Region specific voltage is internally set.
2. Balanced Line Outputs: 5Vrms Maximum level
3. Mains Power Switch connects AC input to the power board when set to the I position.
4. RCA Line Outputs: 5Vrms Maximum Level
5. RCA Line Inputs 1-/i: RCA analog input signals up to 2.5Vrms
6. Balanced Inputs: XLR analog inputs up to 5Vrms

When all connections to and from the unit have been made then double check everything before plugging the Pre5 into the power source. After turning on, the Pre5 will go through its display check and show the software revision number.
The unit will be in Mute with the BAL input selected. The volume will be set to 50.0.

Single Knob Control Functions & Display

Front Panel Control Knob:
The control knob is a continuously rotating control with a push-switch function. Always push the button with your finger in the direct center of the knob. Pushing the knob will switch between selectable values on the display. Rotating the control left or right will adjust the selected value.

Upon Power Up:
When switched on, the Pre5 will perform its startup sequence followed by displaying the firmware revision. After 2 seconds, Input Selection Mode will become active. The Bal (Balanced XLR) input will be selected and Mute will be active. The volume will be set to 50.0.

Volume Control:
The Pre5 allows you to change volume level by rotating the knob. The volume down function (counterclockwise rotation) is very rapid and allows quick changes in the volume level.

Input Selection Mode:
Pressing the control knob in briefly will toggle into the input selection mode. The selected input will be displayed for 5 seconds. During this time you can rotate the control knob to scroll to the desired input. Pressing the knob

again will select the indicated input. The volume level will automatically ramp down and up during this selection process. If the control knob is not pressed for 3 seconds, the indicated input will automatically be selected and the Pre5 will return to the default volume control mode. Inputs are indicated as: Bal, Lint, Lin2, Lin3, Lin4.

Hard Mute Using Control Knob
To Hard Mute the Pre5 from the front panel, press and hold the Control Knob for 2 — 3 seconds. To un-mute, rotate the Control Knob clockwise or press either the Mute or Vol+ button on the remote control.

e.One Remote Control

PRE mode button sets the control for Pre mode for controlling the Pre5, DAC mode for controlling a DAC2.7 or older Bel Canto DAC.
Display: Toggles through several display options:

1. Normal mode

2. Firmware Revision Display

3. Product Name

4. Display Off: Turns off the display. Display comes on for several seconds whenever a status change is detected

Mute: This will switch the analog output mode from
Soft to Hard Mute to Un-muted.
V0L+ Ramp up symbol: Increases the volume setting.
Used in Program mode to navigate up.
VOL- Ramp down symbol: Decreases the volume setting. Used in Program mode to navigate down.

Right Arrow: This will toggle the input selection up in number and wrap around to the lowest number. Note that the first press of this control will show the active input selection. Used in Program mode to navigate right.

Left Arrow: This will toggle the input selection down in number and wrap around to the highest number. Note that the first press of this control will show the active input selection. Used in Program mode to navigate left.

Program: Press to enter programming mode. Hold for 2-3 seconds to exit programming mode and save the program settings.

If the Pre5 does not respond to the remote commands press the PRE button to toggle the mode.

Tips for Operation

Power Up
We recommend leaving the Pre5 powered on at all times as it benefits the overall sound qualitv and draws little power.
If your system will not be used for an extended period of time, such as two weeks, or if there is an imminent electrical storm, we recommend shutting off your system. NOTE: If the Pre5 does not receive any sort of user input for 2 hours, the display will go into a screen saver mode.

Home Theater Bypass
The inputs can be placed into Home Theater Bypass by programming a specific input for HTB mode. HTB will be shown on the display instead of the volume setting when an input is in this mode.

What to do if there is hum or ground noise
The design of the Pre5 greatly reduces the chance for ground loop induced hum and noise. Connect all power cables of the audio system to a common outlet box or power conditioner unit. Having the audio system components share a common ground will greatly reduce the possibility for ground current noise being introduced into the audio signal path.

Programming Modes

There are several programming options with the Pre5. You program the unit by either pressing and holding the knob for several seconds and using short presses and scrolling the knob to navigate and set the programming or by using the Program button on the remote and navigating and scrolling settings using the left/right/up/down buttons. Save the program settings by either pressing and holding the knob or pressing and holding the Program button for several seconds.

1. MAX Volume:100 -default is 1 00, this can be reduced to prevent excessive volume levels.
2. EDIT Input -this is used to change naming and settings on each input, an example is shown below:
    1. BAL ON BAL -the first field shows the input to program, the center field can be set to ON, HTB (Home Theater Bypass) or OFF. HTB sets the input to a unity gin setting of BE for use with an external surround processor where volume is controlled from the processor, OFF will prevent the input from being selected when scrolling inputs.
3. BALANCE -default is 0, this allows the right > or left < balance to be set up to 6dB in 1 2 0.5dB steps
    - Reset PGM: NO/YES — will reset the programming to factory defaults if YES is selected

Remember to press and hold either the Program button on the remote or the knob to save and set the programming when you have finished your settings.

Specifications

Analog Inputs:	
Balanced Input impedance:	100k Ohms
Single-ended Line Input impedance:	50k Ohms
Maximum Input level: Balanced: Single Ended:	SVrms 2.5Vrms
Maximum Output Level, RCA and XLR:	SVrms
Distortion at 1 Vrms output:	<0.002% 1 KHz
Dynamic Range:	125dB A-Weighted re: SVrms
Single-ended Line Out Impedance:	50 Ohms
Balanced Output Impedance:	100 Ohms
General:	
Output connections:	XLR and RCA Outputs
Power On usage:	4W
Power Off usage:	0.0W
Power Input:	100-120VAC, 230-240VAC 50/60 Hz
Fuse:	Littlefuse 215 Series, 3 ampere, time-lag, 250VAC, 5x 2Omm ceramic body fuse
Size:	8.5 x 3.5 x 12[inches], 216 x 88 x 305[mm] (WxHxD)
Weight:	13lbs, 6.5Kg

Features and specifications are subject fo improvements and changes without prior notice.

Declaration of Conformity

Application of Council Directive(s):
200a/108/EC and 2006/95/EC, as amended
Standard(s) to Which Conformity Is Declared:
EN SSOJ 3:2001 + AJ:2003 + A2:2006
EN 55020:2007
EN 61000-3-2:2006
EN 61000-3-3:1995 + A1:2001 + A2:2005
EN 62368-1:2014+A11:2017
Manufacturer:
Bel Canto Design, Ltd.
221 J" Street North
Minneapolis, MN 5540a USA
The equipment identified here conforms to the Directive(s) and
Standard(s) specified above.
Type of Equipment: Analog Control Preamplifier
Models: Pre5
Date: Januarv. 2020

Bel Canto Design, Ltd.
221 1 st Street North
Minneapolis, MN 55401 USA
Tel: 612-317-/i550
Fax: 612-359-9358

CUSTOMER SERVICE

221 First Street North, Suite 300
Minneapolis MN 55401 P: 612.317 4550
www.belcantodesign.com
info@belcantodesign.com
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e.OneTM° is a trademark of Bel Canto Design, LTD

Documents / Resources

e.One by bel canto IN3 S0 Pre 5 User's Guide	**bel canto Pre5 Balanced Analog Control Preamplifier** [pdf] User Guide Pre5 Balanced Analog Control Preamplifier, Pre5, Balanced Analog Control Preamplifier, Analog Control Preamplifier, Control Preamplifier, Preamplifier

References

- bc **eOne - Bel Canto Design**

Manuals+,