LEGACY WAVELAUNCH

Owner's Manual

Table of Contents

Quick Setup

The high definition Digital Wavelaunch Processor hosts a LEGACY custom algorithm which automatically loads when the processor is powered on. Factory settings are 'plug and play', and do not require a computer to utilize. Connections between the preamp, power amplifier, and speakers/subwoofer can be found with your speakers/subwoofer.

Powering on

Attach the included IEC power cable to the rear of the unit, and flip the rear power switch by pushing I. The front panel will load and display the name of the currently selected algorithm next to "Scene".

It is ok to leave the Wavelaunch processor on 24/7 as it draws minimal power.

Increasing/Decreasing the Volume of Legacy Audio Speakers/Subwoofers

The data wheel can be turned left/right to increase/decrease the value of the flashing parameter on the screen. Pressing the data wheel in will enter the value and move the cursor to the next parameter.

Let's use the Legacy Aeris XD for this example, and let's assume you would like to increase the volume (gain) of the Aeris bass section.

1. Press the "Gain" button located at the left of the front panel.
2. Please note the 8 output channels at the far right of the front panel, labeled 1-8. Output channel 1 corresponds to the left Aeris active bass channel, and output channel 5 corresponds to the right Aeris active bass channel. Output 2 corresponds to the left Aeris upper section and Output 6 corresponds to the right Aeris upper section powered by your stereo amplifier.
3. Press the output "1" button.
4. The screen will update and you will see a dB gain level- please rotate the rotary dial to the right to increase the volume level of the left bass section. Once the desired bass output on the left side is achieved, you can press the output "5" button and increase the volume level of the right bass section to the desired level.
5. Once you are done with adjustments, you can press the data wheel again to exit.

Making EQ Adjustments

Wavelaunch provides the user with parametric EQ options to further adjust your Legacy speakers/subwoofers.
Let's use the Legacy Aeris XD for this example. Here's how to adjust the EQ of the left Aeris XD speaker.

1. Press the "PEQ" button located at the left of the front panel.
2. Please note the 4 input channels at the right of the front panel, labeled A-D. Input channel A corresponds to the left signal, and channel B corresponds to the right signal from your preamplifier/surround processor.
3. Press the input "A" button.
4. The screen will update and you can rotate the rotary dial left/right to the desired setting. You can press the dial in to progress to the next setting.
5. Repeat these steps for input "B" if you would like to apply the same PEQ adjustments to the right Aeris XD speaker.
6. Once you are done with adjustments, you can press the data wheel again to exit.

Connections

A connections assignment printout is also included with your speaker/subwoofer to assist you in getting started.

Wavelaunch Processor Inputs

Labeled A, B, C, D
Typical speaker Assignments are A left signal, B right signal
Please consult your speakers/subwoofers diagram for specific connections.

Wavelaunch Processor Outputs

Labeled, 1, 2, 3, 4, 5, 6, 7, 8
Typical speaker assignments are outputs 1-4 left signal, and outputs 5-8 right signal.
For example, Aeris XD assignments Output channel 1 corresponds to the left Aeris active bass channel, and output channel 5 corresponds to the right Aeris active bass channel. Output 2 corresponds to the left Aeris upper section and Output 6 corresponds to the right Aeris upper sections, powered by your stereo amplifier.

Wavelaunch Accessories

Inside the Wavelaunch processor carton packaging you'll find the included IEC power cable.

Specifications

- Processor (DSP):32-Bit Floating Point
- Analog Converters: Super Performance 24-bit
- No. of Programs:64
- Parametric EQ:16 per channel
- Filters: Butterworth, Linkwitz-Riley & Bessel
- Connectors: 4 XLR In, 8 XLR Out, USB Type B
- Dynamic Range: 115 dB (unweighted)
- Distortion: ≤0.0025% @ 4dBu 20Hz-20KHz
- Frequency Response (Hz, +/- .1 dB): 20 to 20 kHz
- Dimensions (HxWxD, inches): 2.6 x 19 x 10.6
- Weight: 7 lbs
- Sampling Rate: 96 kHz

FAQ

What are the differences between the included Legacy Wavelaunch processor and the upgrade Legacy Wavelet 2 processor?

There are quite a few technical differences between the two. The Wavelet 2 processes at 64 bits, and has a more advanced correction algorithm. Most importantly, the Wavelet 2 also corrects in the *time domain*, while the Wavelaunch is largely correcting only in the frequency domain.

Additionally, Wavelet 2 can also be used as a preamplifier (the preamp can be bypassed), and includes its own microphone to automatically run room correction and adjust for the room. Wavelet 2 also features a high-end DAC, capable of up to 32 bit 384kHz audio, in addition to accommodating 4 other analog stereo sources and 4 digital inputs.

Finally, Wavelet 2 is also easier to control, wirelessly from any iPad/iPhone/Android or computer.
For full information, please see more, here.

Warranty

Legacy Audio supports its customers and products with pride. We cheerfully warrant our processors from defects in materials and workmanship for a period of three (3) years. Please register your product with Legacy Audio. Should you require service Legacy will require a proof of purchase in order to honor the warranty - so please keep your receipt.

The warranty applies to the original owner and is not transferable.
The warranty applies to products purchased from an "Authorized Legacy Dealer".
The warranty on active components such as digital processors or internal amplifiers is limited to three (3) years of coverage.
The warranty on dealer stock will extend for a maximum of two years from invoice.

The warranty does not cover transportation costs of product to or from the customer, distributor or dealer, or related shipping damage.

The following situations or conditions are not covered by the Legacy Audio warranty:
Accidental damage, electrical abuse or associated equipment failure
Use inconsistent with recommended operating instructions and specifications
Damage caused by modification or unauthorized service
Costs associated with the removal and reinstallation of defective products. Consequential damage to other products.
Normal wear such as fading of finishes due to sunlight.

Care

If you wish to clean your Wavelaunch, use a diluted ammonia based window cleaner. Do not use any abrasive cleaners or chemical solvents.

Do not block any ventilation openings. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat. The power cable should be unplugged from the outlet during severe electrical storms, or when unused for a long period of time. Grounding: Adequate precautions should be taken so that the grounding provisions built into an electrical product are never defeated.

All information contained in this manual is accurate to the best of our knowledge at the time of publication. In keeping with our policy of ongoing product improvement, we reserve the right to make changes to the design and features of our products without prior notice.

A listing of Legacy Audio Dealers and Distributors can be found on the Legacy Audio website www.legacyaudio.com or by contacting Legacy Audio at: 3023 E. Sangamon Ave., Springfield, IL 62702, USA—Phone: +1 217-544-3178.