Model 42LF

8” Subwoofer w/200W Amp & USB Interface

Owner’s Manual

www.chrispelonisspeakers.com

Model 42LF

The Model 42LF is a low frequency extender designed to work with the Model 42, giving the perception that the 4” speaker in the model 42 expanded to a 12” speaker.

Ported Cabinet

With a low frequency response down to 27Hz, the rock solid enclosure is made from premium MDF material providing excellent rigidity and dampening characteristics. The ported design allows for excellent low frequency extension that is produced by the 8” subwoofer.

Active External Electronics

Keeping sensitive electronics out of the vibrating, magnetic field of a speaker enclosure has become something of a lost art. Additionally, running audio cables parallel to power cables is undesirable and we go as far as possible to eliminate this potential problem.

The single rack space power unit delivers an ultra-flat frequency response, extremely low noise floor, and no listener fatigue. It houses a 200 watt class-D amplifier using true analog implementation operating more in the form of a Class-AB amplifier. The carefully designed low pass filter was specifically tailored to the natural low frequency roll off in the Model 42, paring them seamlessly.

Headroom and Gain

Hearing the full dynamic range of your material is crucial, with more than 20dB of headroom, clipping is virtually eliminated. There are no limiters in the signal chain. Consequently, Pelonis speakers may play at a lower volume than those from other manufacturers, but that can be easily changed. The CP Control DSP software controller allows for an additional boost of 6dB, making it possible to match the audio level with other sets of speakers.

Connecting the Power Unit

Before making or changing any connections, always turn the power switch to the down or off position. After all connection have been made, turn the switch back on. The blue LED indicates the system is ready to play.

The power unit is connected to the speakers using high quality speaker wire. Oxygen free 18 AWG wire is included to make sure you can use your new system right out of the box, but can be replaced with higher quality cables to improve the system's performance. Each speaker does require separate high and low frequency speaker wire runs.

Care should be taken when connecting speaker wire to terminals as to not allow stray wire to touch other wire or terminals.

The left and right source outputs are split with a Y-cable, one split going to the model 42LF input while the other goes to the Model 42. Use either XLR or 1/4" jacks. Both Model 42LF input jacks must be wired to ensure proper balance. Please note that the outputs need to be wired using the right Red "+" terminal and the left Black "-" terminal (when viewed from the rear), as indicated on the silk screen diagram on the back panel of the Model 42LF module.

Setting the Input Sensitivity

Set the input sensitivity button according to the source device. The general guideline is -10dbv for PCs, MP3 players, etc. and +4 for professional sources like mixing consoles. Both inputs are balanced and can be further used to maintain consistent levels between differing sets of speakers. The -10dbv input does allow for unbalanced connections.

DSP Control

The USB jack on the front of the power unit provides a direct interface to your computer, allowing you to control the DSP features. Custom settings are then saved in the power unit after changes have been made, no longer requiring the USB cable to remain connected for custom settings to be maintained.

SPECIFICATIONS

System Type
8" Woofer

Frequency Response
28Hz-96Hz (±3dB)

System Sensitivity
81dB (159mV input, 2.83V output @ 1m,
70Hz LF output, -10dBV input sensitivity)

Rated Maximum SPL
105dB (Peak SPL, 2.0V input @ 1m, -10dBV input sensitivity)

Dispersion
360° (-6dB across frequency range)

THD
1.88% (2.83V @ 1m, 70Hz output, 50Hz-100Hz)

Woofer
8" (200mm) high-excursion paper pulp cone

Woofer Nominal Impedance
8 Ohms

Model 42LF

Chris Pelonis
Signature Series

Pelonis Sound and Acoustics, Inc.
Santa Barbara, CA.
Phone: 805 242 1041
email: info@pelonissound.com

www.chrispelonisspeakers.com