



CRYSTAL-LINE™

Performance Series

CL0.2

Diplomat™ Line Level Translator

- Fully isolated & preserves current balanced Lines
- Independent output line level controls
- Plug programmable input level gain/attenuation
- Combines all inputs for optimum hiss reduction by correlation averaging

The CL0.2 is a high performance speaker level to low level adapter. Utilizing many of the innovative circuits found in the acclaimed Crystal-Line performance series current balanced preamplifiers, it delivers the cleanest, most accurate high fidelity possible. Designed for versatility, it is plug programmable to permit optimum connection irregardless of head unit characteristics: From GM-Delco to factory installed Bose systems, the Crystal-Line CL0.2 will translate high level signals to conventional signal levels in the best way possible. For Example, when properly connected to a typical 4 channel bridged output head unit it will provide signals with up to 6db better signal to noise ratio performance than typical line level converters. Better dynamic range and balance accuracy is also achieved as a result of the plug programming feature that sets the line level conversion ratio ahead of the differential line driving circuitry.

Although it does not fully implement the Crystal-Line current balancing technology, its ground circuitry is totally transparent to current balanced lines. In other words, as far as ground lead or possible ground loop currents are concerned, it virtually acts like a high quality signal cable. Like a high quality signal cable each channel is fully isolated from the other channel and from DC battery ground. Moreover, it drives the line with an output impedance of under 1Ω which shorts out any stray electric field interferences while it provides

an ideal source that enables the highest possible performance of the input circuitry of the piece of equipment it delivers its signals to.

Featuring 8 inputs and 2 RCA outputs with independent output level controls, the CL0.2 can mix 4 channel head unit front and rear signals to enhance hiss and noise performance of typical head units by statistical decorrelation. By this principle, the signal to noise ratio of a 4 channel bridged output head unit can be improved by up to 6db when only two output channels are needed. If all 4 channels are required, two CL0.2s can be used to provide up to 3db signal to noise ratio improvement.

In addition, the CL0.2 can also be programmed to implement the following functions:

- Mix left and right signals for center channel composition (the matrix M signal)
- Derive L-R (the matrix S signal) for ambience and image enhancement application such as rear fill composition or center channel augmentation.

Designed to achieve high levels of fidelity, the CL0.2 delivers a frequency response of 20 to 50,000 Hz +/- 0.1 db and a signal to noise ratio of better than 120db from noise free inputs.

The device is small, yet rugged, and easy to install.