

WISDOM AUDIO SPEAKERS

Crossover and Filters Implementation on ISP & I.ISP



STORM|AUDIO



INTRODUCTION

StormAudio processors and integrated processors (ISP and I.ISP) allow for the complete management of crossover and filters of multiway active speakers. They offer no less than 20 filters cells per channel that can freely be used to implement Shelving, Bell, Low Pass or High Pass filters types as well as the required individual and accurate delay adjustment. Any speaker can be defined as a multiway speaker using StormAudio user friendly Web User Interface.

STORMAUDIO BELL FILTER DEFINITION

In the audio processing world, the definition of the Bell filter with a center frequency, a quality factor and a gain is well established. Nevertheless, the interpretation of these parameters can lead to various response when integrated in a digital signal processor. Indeed, there are different standard used to interpret them and one must carefully check whether the parameters given match the processor implementation.

As a prerequisite, we invite you to consult the dedicated technical bulletin clarifying the StormAudio Bell Filter definition available in our website Client Portal (<https://www.stormaudio.com/en/private-access/login.html>) Documents area, as this will not be covered here.

Additionally, StormAudio post-processor works at a fixed 48 kHz Sampling Rate, any incoming signal being accurately resynchronized to a local high precision low jitter clock, thus providing outstanding clarity and precision in the rendering.

WISDOM AUDIO SPEAKER DATABASE

We have worked closely with Wisdom Audio to create a filter base that would provide the expected reproduction when implemented in a StormAudio processor. This database is illustrated below, attached to that file and accessible in a native excel format for easier reading in the Client Portal Documents area.

