

Conventional guitar speakers are, by their very nature, not neutral. To solve this, a full range flat response (FRFR) speaker is typically deployed. However, that all-important 'musical' character musicians get when playing through guitar speakers is lost when using an FRFR. *Headliner* interviews John Paice, marketing and artist relations at Celestion, who explains why the F12-X200 full range live response speaker provides an (almost) neutral characteristic across the entire frequency band, but also delivers the feeling of playing through a guitar speaker.

Words Alice Gustafson





"You can use the F12-X200 anywhere you are using a modelling amp with impulse responses: in a backline cab, a monitor wedge on stage, at home, or in the studio..."

with the FRFR. It's often described as stiff, sterile – dead almost. It reproduces the sound, but not the feeling of playing."

The current crop of FRFR speakers are essentially pro audio drivers, manufactured to offer as neutral and linear an output as possible. In this way, they are very different from guitar speakers, which are purposely designed to break up into harmonic resonances. Guitar speakers are designed to produce musical-sounding distortion and other desirable tonal colouration by using thinner cones, together with other sympathetic materials and design techniques.

This is where Celestion's F12-X200 comes in, which yes, is a speaker for guitarists, however, is quite different from the manufacturer's standard guitar speaker product range: it's an MI product that channels the speaker manufacturer's PA know-how.

What the F12-X200 speaker does is bring both key characteristics together in one loudspeaker. It truly is a full range driver, delivering a frequency response from 60Hz all the way up to 20kHz, with a sensitivity of 96dB.

The higher frequency part of the signal is reproduced using a Celestion compression driver which has been integrated using a high quality

crossover circuit. This enables the F12-X200 to reproduce the full spectrum of audible frequencies for the most accurate output possible – in whatever environment and set-up a musician might be emulating.

The F12-X200's response is remarkably neutral, with Celestion technology built in to ensure there are no unwanted colourations that could overpower the input signal. However, it has been built with the lighter moving mass and straighter-sided cone of the type commonly used with guitar speakers – giving the F12-X200 that traditional guitar speaker feel.

The whole response of the speaker is live, delivering all the physical response and tactile feedback musicians would expect from playing a traditional guitarist's set-up.

"It doesn't just sound like you're playing a guitar through a guitar speaker, it feels like it too," enthuses Paice. "You can use the F12-X200 anywhere you are using a modelling amp with impulse responses: in a backline cab, a monitor wedge on stage, at home, or in the studio!"

www.celestion.com

