System Two Cascade – 96k/192k Digital Audio

Our standard System Two® audio analyzer is available in analog versions (SYS-2022), in versions with powerful Digital Signal Processing for analog signal analysis (SYS-2222), and with Digital I/O (SYS-2300 and SYS-2322).

System Two Cascade versions below offer enhanced DSP power for handling higher industry standard sampling rates (96 kHz and 192 kHz) as well as for faster and more flexible audio measurement techniques. Cascaded digital signal processors provide roughly 6x the overall processing DSP power of standard System Two. More memory provides 10 times the FFT capacity of standard System Two. Internal and global memory brings features such as simultaneous acquire and transform of FFTs, and signal acquisitions as long as 5.4 seconds at 48 kHz. Cascade features continuous sample rate coverage from 8k to 200k, as well as support for 96k and 192k consumer and professional audio sampling rates. Cascade also includes new converters with increased bandwidth and performance for DSP-based measurements. Three basic System Two Cascade configurations are available. They are:

SYS-2422A

System Two + DSP® analog domain test set with all of the analog capability of the analog System Two SYS-2022A, plus DSP modules for generation and analysis of **multitone signals** (**FASTTEST**®), **FFT spectrum analysis**, **waveform display**, **MLS** (maximum length sequence) quasi-anechoic acoustic testing, objective testing of reduced bit-rate coders, and a sophisticated individual **Harmonic Distortion Analyzer**.

In addition to the analog generator and analyzer, DSP generated signals (including stereo sine, dual sine, variable phase sine, shaped burst and IMD) are available, as well as a dual channel **DSP Audio Analyzer** with two AC reading meters, two AC level meters and two phase meters.

SYS-2522A

System Two Dual Domain® test set: also DSP-equipped, includes all SYS-2422A capability plus **digital domain signal generation and analysis** capability via **digital input and output** in the AES/EBU (balanced and unbalanced) and consumer (coaxial and optical) formats, plus parallel, and general purpose serial I/O. The SYS-2522A includes the most complete AES/EBU and consumer digital interface stimulus and measurement capability in the industry (**INTERVU**™) and digital data testing (**BITTEST**™). With Dual Domain architecture, the analog hardware generator and analog hardware analyzer for analog domain devices are separate and independent from DSP modules which stimulate and analyze digital domain devices via both single and dual connector digital audio interface.

SYS-2500A

A digital domain test set with all the digital interface features of the SYS-2522A but with no analog domain capability. Like the SYS-2522A, it includes continuous digital sample rate coverage from 8k to 192k.

APWIN "A" versions include APWIN software, manuals, interface card & cable.

Internal Options

System Two's architecture is internally modular. This permits configuration to your exact needs at the time of purchase, and later upgrades as needs change. Three major internal analog domain options may be fitted to any of the first two basic configurations.

- The **BUR** option adds analog domain generation of burst sine waves with controllable burst duration, interval, and lower amplitude between bursts, plus squarewaves to 20 kHz, analog random and pseudorandom white and pink noise, and bandpass-filtered pink noise.
- The **IMD** option analyzes analog domain devices for intermodulation distortion to the SMPTE/DIN, CCIF/DFD (twin tone or difference tone) and DIM/TIM (dynamic/transient intermodulation distortion) standards.
- **W&F** option measures wow and flutter to the IEC/DIN, NAB, JIS, and scrape flutter standards, weighted or unweighted.