Test Equipment Solutions Ltd specialise in the second user sale, rental and distribution of quality test & measurement (T&M) equipment. We stock all major equipment types such as spectrum analyzers, signal generators, oscilloscopes, power meters, logic analysers etc from all the major suppliers such as Agilent, Tektronix, Anritsu and Rohde & Schwarz.

We are focused at the professional end of the marketplace, primarily working with customers for whom high performance, quality and service are key, whilst realising the cost savings that second user equipment offers. As such, we fully test & refurbish equipment in our in-house, traceable Lab. Items are supplied with manuals, accessories and typically a full no-quibble 1 year warranty. Our staff have extensive backgrounds in T&M, totalling over 150 years of combined experience, which enables us to deliver industry-leading service and support. We endeavour to be customer focused in every way right down to the detail, such as offering free delivery on sales, presenting flexible technical + commercial solutions and supplying a loan unit during warranty repair, if available.

As well as the headline benefit of cost saving, second user offers shorter lead times, higher reliability and multivendor solutions. Rental, of course, is ideal for shorter term needs and offers fast delivery, flexibility, try-before-you-buy, zero capital expenditure, lower risk and off balance sheet accounting. Both second user and rental improve the key business measure of Return On Capital Employed.

We are based at Aldermaston in the UK from where we supply test equipment worldwide. Our facility incorporates Sales, Support, Admin, Logistics and our own in-house Lab.

All products supplied by Test Equipment Solutions include:

- No-quibble parts & labour warranty (we provide transport for UK mainland addresses).
- Free loan equipment during warranty repair, if available.
- Full electrical, mechanical and safety refurbishment in our 40GHz in-house Lab.
- Certificate of Conformance (calibration available on request).
- Manuals and accessories required for normal operation.
- Free insured delivery to your UK mainland address (sales).
- Support from our team of seasoned Test & Measurement engineers.
- ISO9001 quality assurance.

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The 2700 Series is designed for audio engineers who need the highest performance, lowest distortion and greatest flexibility possible in their audio analyzer.

The 2722’s true dual domain architecture enables uncompromised measurement of both analog and digital signals: the analog generator and analyzer performance surpasses that of any digital converter-based design, while digital analysis techniques offer a wide array of precise, high-speed measurement techniques for either domain. Cross-domain work can be accomplished using the best of both worlds.

The typical residual THD+N of the 2700 Series is ≤115 dB at 2.0 Vrms. However, even with Audio Precision’s conservatively specified THD+N of –112 dB across the entire amplitude range, the 2700 Series is the industry’s undisputed performance leader.

No digital converter can beat the performance of Audio Precision’s analog circuitry. No other analyzer, even those with analog components, can match the low noise floor of the 2700 Series.

The analog generator has a bandwidth of 10 Hz to 204 kHz, flat within a few thousandths of a dB across the audio band. The analog analyzer has a bandwidth of 10 Hz to 500 kHz.

The 2700 Series surpasses other instruments with a maximum analog input of 160 Vrms and maximum generator output of 26.66 Vrms.
Digital Analysis with 2700

The 2700 Series offers AES3/IEC60958 serial digital interfaces, with fully configurable serial data and clock ports available via the optional Programmable Serial Interface Adapter.

All digital input and output capabilities are functional over the full range of sample rates from 8 kHz to beyond 200 kHz.

The Digital Input/Output panel provides complete control and display of serial interface parameters including connector and format selection, sample rate, resolution, pulse amplitude, active data bits, error flags and received jitter amplitude. A Status Bits panel enables you to set and read interface metadata in both professional and consumer formats. Metadata is displayed in both hex and English interpretations.

Test the performance of AES3/IEC60958 receivers with sub-standard signals by introducing impairments to the output serial interface signal. Impairments include variable sample rate, pulse amplitude and rise and fall times, the addition of noise, common-mode signals, controllable jitter and a long cable simulation.

Use the Digital Interface Analyzer tool to measure and display the interface signal of jitter waveform and spectrum, histograms for a number of interface measurements or to generate an eye pattern. Add jitter of various types and amplitudes to the generated bitstream and measure the effect on the receiver and the resulting audio signal.

Chip-level design with the PSIA

The Programmable Serial Interface Adapter (PSIA-2722) enables the connection of chip-level devices, such as analog-to-digital converters, digital-to-analog converters or sample rate converters to a 2700 Series analyzer. The PSIA offers more connectivity options than any other serial digital audio adapter, including a variety of interface protocols beyond I2S, different logic families and voltage levels, clock rates, word orientations, and formats.