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 2 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, covering the cost of warranty returns BOTH ways (plus supplying a loan unit, if available) and supplying a free business tool with every order.

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 near Heathrow Airport 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 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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2700 SERIES

Audio Test and Measurement System
Unmatched Performance
Audio Precision’s 2700 series is the newest generation of the company’s award-winning PC-controlled audio test and measurement instruments, long the recognized worldwide standard for the design and test of audio equipment. The 2700 series continues to provide the unmatched distortion and noise performance required to test the latest advances in converter technology, while raising the bar with new 192k digital input and output capabilities.

In the SYS-2722, a true dual-domain architecture provides uncompromised performance for both analog and digital signals: the hardware generator and analyzer specifications surpass those of any digital configuration, while digital analysis techniques offer a wide array of high-speed, precise measurements for either domain. Cross-domain work can be accomplished using the best of both worlds.

### Unparalleled Precision

**Low Distortion**

Analog system 1 kHz THD+N, 20 kHz BW ≤ –112 dB
(Typical worst case harmonic < –130 dB)

Digital generator distortion/spurious products ≤ –160 dB

**High Bandwidth**

Analog signal generation to 204 kHz
Analog measurements to 500 kHz
Analysis by FFTs and Multitone to 120 kHz

**Low Noise**

Analog analyzer 22 Hz–22 kHz BW ≤ –118 dBu
Analog analyzer A-weighted ≤ –124 dBu

**Flat Response**

Analog system 20 Hz–20 kHz typically ± 0.003 dB

**Low Crosstalk**

Analog inputs 20 Hz–20 kHz ≤ –140 dB
Analog output 20 Hz–20 kHz ≤ –120 dB

**Low Jitter**

700 Hz–100 kHz BW ≤ 600 ps
50 Hz–100 kHz BW ≤ 1.0 ns

**FFT Acquisitions**

Up to 4 M Samples (87 s @ 48 kHz Fs)
The 2700 series control software is a powerful and sophisticated real-time interface that runs on a PC controlling the instrument. Hardware and software system modules and functions are operated by settings on software panels, with measurements provided in panel reading displays. Settings and readings can be swept and plotted on X-Y graphs, modified by various algorithms, compared against limits or analyzed by DSP techniques. The control software is flexible and configurable, addressing a wide range of uses from benchtop engineering to production testing.

Test setups, measurement data, graphs and other test components are saved on the PC. These files can be emailed or exchanged between co-workers to quickly duplicate test setups, study test results or publish reports — regardless of location.

The 2700 series control software supports Microsoft Windows® 98, Windows 2000 and Windows XP. Graphs and data can be pasted into other Windows-compatible applications and can be exported in a number of different formats.

- GPIB versions of each 2700 series model are available, providing an IEEE-488 interface for compatibility with third-party automated testing instruments.
- The entire testing process can be automated for repeatability and speed by programmatically controlling the 2700 series instrument using AP Basic, the Audio Precision programming language included with the 2700 series. Every setting, reading and setup parameter in the 2700 series control software is available in the AP Basic command set. AP Basic supports complex, branched testing programs as well as simple step-by-step macros.
- You can create, edit and run AP Basic macros without ever leaving the control software. The Macro Editor provides complete editing, debugging and syntax help.
- AP Basic works with the control software using ActiveX Automation. The entire command structure is accessible to Microsoft Visual Basic®, enabling you to integrate your 2700 series instrument with a wide variety of applications and equipment.
- Learn Mode is a “macro recorder” that provides a fast and convenient way to generate automated test macros, even if you have little programming experience.
- A Dialog Editor provides an easy way to design a custom user interface “front-end” for your automation macros. Drag-and-drop in the Dialog Editor, and the underlying code is written into the Macro Editor script.
The 2700 series offers an array of powerful, time-saving analysis tools to speed your testing procedures.

**Multitone** Multitone testing techniques can provide response, distortion, noise, crosstalk and phase measurements — all from a single sub-second acquisition. You can address a wide variety of high-speed testing applications by choosing a standard stimulus waveform, or by making your own using the multitone creation utility. In addition to great speed, multitone analysis brings other advantages: a stimulus signal, for example, that is a rich mix of frequencies, levels and phase relationships that more closely resembles program material than conventional single stimulus tones; and the unique ability to measure noise or very low distortion products in the presence of signal.

**Fast data settling** A sophisticated data settling algorithm enables you to optimize the inherent trade-off between testing speed and measurement accuracy in sweep tests. Individual settling parameters are stored for every measurement available in the instrument.

**MLS analysis** Quasi-anechoic measurements of transducers and acoustic spaces can be performed using MLS (Maximum Length Sequence) signals and analysis to produce impulse, frequency and phase response graphs in less than one second.

**Hardware and software filters** Make noise measurements to virtually any international standard using our extensive collection of weighting and band-limiting filters. Use optional Audio Precision hardware filters (for the Analog Analyzer) or Audio Precision software filters (for the DSP Audio Analyzer); or make your own user-downloadable software filters using the Filter Creation Utility.
The 2700 series offers both AES3 and IEC60958 serial digital interfaces, with fully configurable serial data and clock ports available via the auxiliary PSIA-2722 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 or 60958 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 or 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.

- **Digital Interface Capabilities**

  - **Digital Inputs and Outputs**
    - Choose balanced XLR for the AES3 format, unbalanced BNC for the 60958 format, or a Toslink® connector for optical output or input to 192k. The second connectors can be used to switch between cables or in dual-connector mode. Rear-panel jacks provide reference, clock and trigger inputs and outputs.

  - **Digital Outputs**
    - Selectively inject various impairments into the digital signal to test device performance.

  - **Eye Pattern**
    - An Eye Pattern is a triggered oscilloscope view of the minimum pulse stream amplitude vs. time, computed over thousands of data cells. The eye opening provides a quick check of signal amplitude, signal-to-noise ratio, rise and fall times and jitter.

  - **Histograms**
    - Histograms display the probability distribution of pulse stream parameters like timing (jitter), amplitude, sample rate and bit width. The interface signal and the jitter waveform can be viewed either in the time domain (oscilloscope view) or the frequency domain (FFT spectrum).
## 2700 Series Specifications Summary

### ANALOG SIGNAL OUTPUTS (except SYS-2720)

**Low Distortion Sine Wave Generator**
- Frequency Range: 10 Hz–204 kHz
- Frequency Accuracy: ±0.01%
- Frequency Resolution: 0.001 Hz
- Output Power: Unbalanced: 10 mW (Rs = 600 Ω), 0.1 µVrms ±0.3 dB; Balanced: 20 mVrms ±0.1 dB
- Max Output Level: Unbalanced: 50 mW, 1.0 µVrms ±0.5 dB; Balanced: 100 mVrms ±0.3 dB
- THD+N: Balanced: 0.0003% + 1.0 µV [–110.5 dB], 22 kHz BW, –100 dB or 10 µV, whichever is greater. Unbalanced: 0.0004% + 5.0 µV [–88 dB], 500 kHz BW

**DIM (D/A) Signal Family**
- Shaped Burst Interval: . . . . . . 2 cycles–65536 cycles.
- Dual-Sine Ratio Range: 0 dB to –100 dB, usable to –138 dB.
- THD+N (20Hz–20kHz)

**SINE (D/A) Signal Family**
- D/A Resolution: 24-bit sigma-delta.
- Sample Rate: Pseudo-Random Interval: Typically 262 ms (synchronized to the analyzer 4/s)
- White Noise: Bandwidth limited 10 Hz–23 kHz.
- Frequency Range: 20 Hz–20 kHz.

**Square Wave**
- Special Purpose Signals

### Special Purpose Signals with option "BUR"

**Square Burst**
- Frequency Range: 20 Hz–100 kHz.

**Square Wave**
- Frequency Range: 20 Hz–20 kHz.

**White Noise**
- Bandlimited to 10 Hz–23 kHz.

**Pink Noise**
- Bandlimited to 20 Hz–20 kHz.

**Bandpass Noise**
- Approximately 10-cycles/s (probe) Band pass noise, continuously tunable from 20 Hz–100 kHz.

**Generator**
- Pseudo-Random tunes: Typically 282 ms (synchronized to the analyzer for reading rate).

### DIAGONAL ANALOG SIGNALS

**Common Specifications**
- Sample Rate: Sin. IMD: . . . . . . fixed at 65.536 kHz or 131.072 kHz.
- Other signals: 8-kHz–108 kHz variable, or fixed at 65.536 kHz or 131.072 kHz.
- Frequency Resolution: 0.0002% (+2 ppm) minimum reference, tickable to external references.

**DIAXA Association**
- 24-bit sigma-bits.

**SINE (D/A) Signal Family**
- Frequency Range: 10 Hz–204 kHz (55.536 kHz) or 10 Hz–40 kHz (131.072 kHz).
- Max Output Level: Unbalanced: 60 mW, 0.1 µVrms ±0.3 dB; Balanced: 100 mVrms ±0.3 dB
- THD+N: 0.0002% + 1.0 µV at 22 kHz BW, 0.0003% + 1.0 µV at 65 kHz BW
- Bandpass Limits: LF <–3 dB to +3 dB, HF <–3 dB to +3 dB
- THD+N: –105 dB for fs up to 65.536 kHz, –102 dB for fs up to 131.072 kHz

**Bandpass Amplitude/NRC Function**
- Maximum Level: . . . . . . . . . . 100 dB at 1 kHz.
- Maximum Amplitude: . . . . . . . . . . 100 mVrms ±0.1 dB at 1 kHz.
- THD+N: –105 dB for fs up to 65.536 kHz, –102 dB for fs up to 131.072 kHz

**Bandpass Amplitude Noise Function**
- Minimum Level: . . . . . . . . . . 10 dB below maximum.
- Noise Level: . . . . . . . . . . . . 0.05 µVrms ±0.1 dB at 1 kHz.
- THD+N: –105 dB for fs up to 65.536 kHz, –102 dB for fs up to 131.072 kHz

### HIGH RESOLUTION CONVERTER

**ADC Resolution**: 24-bit sigma-delta.

### HIGH BANDWIDTH CONVERTER

**ADC Resolution**: 16-bit sigma-delta.

### FFT SIGNAL ANALYZER WITH "FFT" DSP PROGRAM

**Sample Rate**: 800 samples/s and 48 samples/s as selectable steps.
**Transform Length**: 256–2048 samples in binary steps.
**Processing**: 48-bit
**Amplitude Accuracy**: ±0.05 dB (within 22 kHz BW) ±0.1 dB at 1 kHz
**Averaging**: 1 to 256 averages in binary steps.
**Windows**

### DSP AUDIO ANALYZER WITH "ANALOG" DSP PROGRAM

**Wideband Level/Amplitude Function**
- Frequency Range: ±10% to 40% of Sample Rate [10 Hz–21.2 kHz].
- High-pass Filters: ±10% to 40% of Sample Rate [10 Hz–21.2 kHz].
- Bandpass Limits: ±10% to 40% of Sample Rate [10 Hz–21.2 kHz].
- THD+N: –105 dB or 10 µV, whichever is greater.

**Weighting Filters**
- Weighting: A-weighting, Linkwitz-Riley, Barkworth, or 24-bit elliptic.
- THD+N: –105 dB or 10 µV, whichever is greater.

### NARROW BAND AMPLITUDE FUNCTION

**Frequency Range**: 0.1 Hz to 1 kHz
**Bandpass Limits**: ±10% to 40% of Sample Rate [10 Hz–21.2 kHz].
**THD+N**: –105 dB or 10 µV, whichever is greater.
**Frequency Measurements**

- **Range**: ±10 Hz to 47% of Sample Rate, [10 Hz–23.0 kHz at 48 kHz]
- **Accuracy**: ±0.005% of reading or 0.0001% of Sample Rate, whichever is greater.
- **Resolution**: 0.0003% of reading or 0.0001% of Sample Rate, whichever is greater.

**Quasi-Anechoic Acoustical Tester with "Air Test"**

- **Signals**: Four pink sequences, four white sequences.
- **Frequency Range**: 0 to Sample Rate = 2
- **Length**: 296 points × 16344 points per channel. Utility is to prepare waveform from user-specified frequency, amplitude, and phase data.
- **Frequency Resolution**: Sample Rate × Length / [1.93 Hz for length = 16384]
- **Maximum Number of Time Length**: ± 9119 for length = 16384.

**Multitone Audio Analyzer with "FASTTEST" DSP program**

- **Level vs Frequency** (Response), Total distortion vs frequency, Noise vs frequency, Phase vs frequency, Crosstalk vs frequency, Masking curve.
- **Resolution**: ±0.002% or ±0.003%.
- **Accuracy**: ±0.002% or ±0.003%.
- **Output Impedance**: Balanced (XLR) Normally 110 Ω.
- **Unbalanced (BNC) Normally 75 Ω.

**Embedded Audio, Multitone Audio Analyzer with "FASTTEST" DSP program (all bit processing)**

- **Input Formats**: 28 kHz–200 kHz AES/EBU, NTSC, PAL, or SECAM video, 60958), Dual Connector BNC, Optical (Toslink®) per IEC-60958, TTL, 5Vdc (max).
- **Output Formats**: AES/EBU (per AES3-r1997).

**Variable Phase Sine Wave**

- **Phase Range**: ±4°.
- **Amplitude**: ±100%.

**Sine Burst and Shaped Sine Burst**

- **Output**: 2 cycles-65536 cycles.
- **Output**: 1 to 100% (number of cycles initial 1).

**Square Wave**

- **Frequency Range**: ±1 Hz to 10 Hz Sample Rate. Frequencies are limited to ensure independent sub-multiples of the Sample Rate.

**SMpte/EBU/Oversampled Waveform**

- **Upper Tones Range**: ±2 Hz to 47% of Sample Rate [22.56 kHz at 48 kHz]
- **Lower Tones Range**: ±20 kHz–200 kHz.

**CCTV and UFS Oversampled Waveform**

- **Center Frequency Range**: ±10 Hz to 47% of Sample Rate × [20 kHz (48-bit processing)]
- **IM Frequency Range**: ±0.02–20.02 kHz.

**IMB Waveform**

- **Sine and Sine Frequencies**: Determined by Sample Rate
- **Distortion**: ±0.01% or ±0.01%.
- **Amplitude**: ±100% or ±100%.

**Noise**

- **Frequency Range**: ±1 Hz to 10 Hz Sample Rate. Frequencies are limited to ensure independent sub-multiples of the Sample Rate.

**Embedded Audio Measurements**

- **Reference Output to the input.**
- **Output**: 2 cycles-65536 cycles.
- **Impedance**: 200 Ω.

**DIGITAL ANALYZER (SY6-2723 and SY7-2722 only)**

- **Digital Interface Signal Measurements**
  - **Input Formats**: Balanced XLR (AES/EBU) per AES1-1997, Dual Connector XLR, Unbalanced BNC (GPOD/SMK) per IEC-60958, Dual Connector BNC, Optical (Toslink®) per IEC-60958. General purpose, parallel, or Serial interface to chips via optional PISA-2722.
  - **Sample Rate ("SR") Range**: 
    - **Electrical Formats**: 28 kHz–200 kHz for fully specified performance; typically 28 kHz–200 kHz.
    - **Unbalanced (BNC)**: 0 Vpp–2.5 Vpp, ±(5% + 6 mV).
    - **Balanced (XLR)**: 0 Vpp–10.00 Vpp, ±(5% + 25 mV).
    - **Optical**: Displays output voltage of Toslink® receiver (not linearly usable from 8 kHz–216 kHz.

**Reference Input ("REF IN") Characteristics**

- **Input Formats**: 28 kHz–200 kHz AES/EBU, NTSC, PAL, or SECAM video, 60958), Dual Connector BNC, Optical (Toslink®) per IEC-60958, TTL, 5Vdc (max).
- **Output Formats**: AES/EBU (per AES3-r1997).

**DIGITAL SIGNAL GENERATOR (SY6-2723 and SY7-2722 only)**

- **Interface Signal Characteristics**
  - **Output Formats**: Balanced XLR (AES/EBU) per AES1-1997, Dual Connector XLR, Unbalanced BNC (GPOD/SMK) per IEC-60958, Dual Connector BNC, Optical (Toslink®) per IEC-60958. General purpose, parallel, or Serial interface to chips via optional PISA-2722.
  - **Sample Rate ("SR") Range**: 
    - **Electrical Formats**: 28 kHz–200 kHz for fully specified performance; typically 28 kHz–200 kHz.
    - **Unbalanced (BNC)**: 0 Vpp–2.5 Vpp, ±(5% + 6 mV).
    - **Balanced (XLR)**: 0 Vpp–10.00 Vpp, ±(5% + 25 mV).
    - **Optical**: Displays output voltage of Toslink® receiver (not linearly usable from 8 kHz–216 kHz.

**Reference Output ("REF OUT") Characteristics**

- **Input Formats**: 28 kHz–200 kHz AES/EBU, NTSC, PAL, or SECAM video, 60958), Dual Connector BNC, Optical (Toslink®) per IEC-60958, TTL, 5Vdc (max).
- **Output Formats**: AES/EBU (per AES3-r1997).

**Generator Monitors**

- **Input Formats**: 28 kHz–200 kHz AES/EBU, NTSC, PAL, or SECAM video, 60958), Dual Connector BNC, Optical (Toslink®) per IEC-60958, TTL, 5Vdc (max).
- **Output Formats**: AES/EBU (per AES3-r1997).

**Source Reference**

- **Input Formats**: 28 kHz–200 kHz AES/EBU, NTSC, PAL, or SECAM video, 60958), Dual Connector BNC, Optical (Toslink®) per IEC-60958, TTL, 5Vdc (max).
- **Output Formats**: AES/EBU (per AES3-r1997).

**Front Panel Auxiliary Signals**

- **Generator Monitors**: (all bit processing SY6-2722)
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**REAR Panel Auxiliary Signals**

- **Reference Input ("REF IN") Characteristics**
  - **Input Formats**: 28 kHz–200 kHz AES/EBU, NTSC, PAL, or SECAM video, or 8 kHz–10 MHz square wave.
  - **Output Formats**: AES/EBU (per AES1-1997).

**Environment**

- **Dimensions**: Width: 41.9 cm [16.5 inches]. Height: 14.6 cm [5.75 inches]. Depth: 34.5 cm [13.6 inches].
- **Weight**: Approximately 15.4 kg [34 lbs].
The 2700 series is available in four models to test analog signals, digital signals or both (dual domain).

SYS-2722 offers analog and digital inputs and outputs, DSP analysis of both digital and internally-converted analog signals, DSP-generated digital and analog signals, and low-distortion, hardware-implemented generation and analysis for analog signals. It is a true dual domain instrument.

SYS-2720 offers digital input and output and DSP generation and analysis of digital signals. It has no analog I/O capabilities.

SYS-2712 offers analog inputs and outputs, DSP analysis of internally-converted analog signals, DSP-generated analog signals, and low-distortion hardware-implemented signal generation and analysis. It has no digital I/O capabilities.

SYS-2702 offers analog input and output, with low-distortion hardware-implemented signal generation and analysis. It has no digital I/O capabilities.

The GPIB option adds an IEEE-488 interface to the instrument.

Three major internal analog options may be fitted to all instruments except the digital-only SYS-2720. Note that some BUR- and IMD-type capabilities are already provided in DSP generation and analysis for SYS-2722 and SYS-2712.

The BUR option adds analog-domain generation of burst sine waves with controllable burst duration, interval and amplitude between bursts. It also includes analog-generated square waves to 20 kHz, analog random and pseudorandom white and pink noise, and bandpass-filtered pink noise.

The IMD option tests analog-domain devices for intermodulation distortion to the SMPTE/DIN, CCIF and DIM/TIM standards.

The W&F option measures analog wow & flutter to the IEC/DIN, NAB, JIS and scrape flutter standards, weighted or unweighted.

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<th>2700 SERIES ORDERING INFORMATION</th>
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<td>SYS-2722 . Analog and Digital Input and Output, with DSP. Dual domain, 192k.</td>
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<td>SYS-2720 . Digital Input and Output, with DSP.</td>
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<tr>
<td>SYS-2712 . Analog Input and Output.</td>
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<tr>
<td><strong>Options</strong></td>
</tr>
<tr>
<td>BUR . Analog burst sine waves, square waves to 20 kHz, random and pseudorandom white and pink noise signals.</td>
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<tr>
<td>IMD . Analog Intermodulation Distortion to SMPTE/DIN, CCIF and DIM/TIM standards.</td>
</tr>
<tr>
<td>W&amp;F . Wow &amp; Flutter to IEC/DIN, NAB, JIS and scrape flutter standards, weighted or unweighted.</td>
</tr>
<tr>
<td>OPT-2711 . Onboard Dolby* Digital (AC-3) signal generation for SYS-2722 and SYS-2712.</td>
</tr>
<tr>
<td>EWP-2700 . Three-Year Extended Warranty (adds three more years to the standard three-year warranty included with instrument).</td>
</tr>
<tr>
<td><strong>Interface Options (selected at time of order)</strong></td>
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<tr>
<td>S2-ISA . ISA Interface Card w/AP2700 software.</td>
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<td>S2-PCI . PCI Interface Card w/AP2700 software.</td>
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<td>S2-PCMCIA . PCMCIA Interface Card w/AP2700 software.</td>
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<tr>
<td><strong>Filters</strong></td>
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<td>S-AES17 . Lowpass filter for AES17 DAC measurements.</td>
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<tr>
<td>FL-xxx . Family of analog psophometric noise weighting filters.</td>
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<td>FLF-xxx . Family of analog sharp lowpass filters.</td>
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<td>FLP-xxx . Family of analog 1/3 octave bandpass filters.</td>
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<tr>
<td><strong>External Accessories</strong></td>
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<tr>
<td>AUX-0025 . Switching Amplifier Measurement Filter.</td>
</tr>
<tr>
<td>PSIA-2722 . Programmable Serial Interface Adapter.</td>
</tr>
<tr>
<td>SWR-2122 . Switching family expandable to 102 channels.</td>
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<tr>
<td>DCX-127 . Multifunction module including 4 channel DAC voltmeter/ohmmeter with miscellaneous digital control ports.</td>
</tr>
<tr>
<td>RAK-S2 . Rackmount kit.</td>
</tr>
<tr>
<td>HAN-S2 . Carrying handle.</td>
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