Audio Control
SA3051/SA3052
1/3 Octave Analyzers

The SA3051 is a self contained professional grade 1/3 octave real-time audio analyzer. Features include 30 bands (25-20kHz) plus broadband SPL analyzing, 6-non-volatile memory locations plus averaging, digital SPL display with 0.1dB resolution, digital pink noise generator and includes a calibrated microphone. The SA3052 adds an internal battery pack w/intelligent charger, parallel printer port for hard copy documentation, and a soft carrying case. Both units use fourth order ANSI class II filters.

CMC500 SPL Meter Calibrator

Over time, all SPL meters lose their calibration. The CMC-500 meets IEC 942 Class 2, ANSI S1.40-1984 standards. The CMC-500 can calibrate 1/4", 1/2" & 1/4" microphone capsules at 94dB and 114dB. 9V operation, includes calibration screwdriver, carrying case, 1/2" & 1/4" microphone adapter.

Checkmate CM-150 SPL Meter

Extended range of measurement from 50-150dB w/ +/-1.5dB accuracy. Perfect for industrial measurements, factory worker safety, or any other loud environment. Freq. range 31.5-8KHz, & can be software controlled and tripod mounted w/optional accessories (see below).

Checkmate Polarity/Continuity Test Set

The battery-powered Cricket can test the absolute polarity of wireless microphones, mixers, effects devices, amps, cables, and speakers. Cricket makes it easy to determine whether every component in an audio system from patch bay to console to speakers is in or out of polarity. It tests balanced and unbalanced cables of up to 2,000 feet in length. It will drive a "snake" (even one with transformers), and indicate which of a speaker's, effects devices, amps, cables, and speakers.

CRICKET Polarity

APT2 Absolute Phase/Polarity Check

The APT2 can determine the absolute polarity of speakers and signal processing devices. It comes in 2 packages. First, the pulse generator which can drive line level or the speaker directly. Second, the detector w/ built-in condenser microphone.

GOLD LINE DSP30 Portable Digital 1/3 Octave Real Time Analyzer

The DSP-30 uses digital filters (ANSI class 0–sharpest) or ANSI class 1-triple tuned style) maintaining accuracy during measurement over an 85dB range. Filters are user-selectable with a single keystroke. Comes with Windows interface and a 30-location non-volatile memory.

GOLD LINE gh1k Microphone input tester

A microphone input tester with tone generator & phantom power detector built into a standard 3 pin XLR male connector. When inserted into a microphone input connector, the LED indicator lights showing that there’s a phantom power voltage present. If a voltage is present, a 1kHz tone will be sent into the microphone input.

GOLD LINE 30MB 1/3 Octave Portable Analyzer

The Gold Line 30MB is a 1/3 octave battery operated Audio Spectrum Analyzer, complete with remote mic and 8 memories. The 30MB is also an accurate dB meter and will read Sound Pressure Levels in either “A” or “C” weighting.
**GOLD LINE**

**Loft Model TS-1B**
Use the TS-1B to locate feedback frequencies and troubleshoot & measure speaker systems & frequency response check power amps, align tape machines, and measure S/N ratios. It features a low distortion oscillator, frequency counter and dB meter. Inputs are TRS 1/4", and the unit has 7-segment LEDs. **LIST**

TS1-B .......................... 520.00

**CALL FOR PRICE**

**GOLD LINE**

**Pink Noise Generators PN-3A**
Pink noise generators supply a flat noise source as a test signal for sound systems. PN-2 provides professional quality pink noise for equalization/analysis, 1/4" output in a durable 9V powered case.

PN-2 .................. 125.00

PN-3A .................. 167.00

**CALL FOR PRICE**

**GOLD LINE**

**Spl120 Spl Meter**
This hand-held sound pressure level meter registers accurately to 123dB SPL. It features a built-in omnidirectional electret condenser, an unbalanced 3.5mm jack 10kohm impedance, SPL for normal response; HI SPL to capture between bursts. 1/4" output in a durable 9V powered case.

SPL120 .................. 336.00

**CALL FOR PRICE**

**GOLD LINE**

**ZM1 Impedance Meter**
The Model ZM1 is a unique product that is useful to every sound contractor or installer. The ZM1 measures the impedance of loudspeakers and entire distributed loudspeaker systems as well as individual components (resistors, capacitors, inductors). It will also calculate the wattage that will be produced on an installed loudspeaker system.

ZM1-GOLDLINE .................. 384.95

**CALL FOR PRICE**

**IDEAL**

**Lantek Expansion Accessories**
TRACETEK transforms a cable certify into a fiber optic testing tool at a fraction of the cost of an OTDR. When used with either the single mode or multi-mode FIBERTEK modules, the TRACETEK graphical display shows events such as connectors or bad splices as spikes. The amplitude and duration of those spikes gives the user or contractor an indication of potential trouble spots. To improve productivity, talkset capability is available for FIBERTEK. Simply plug the talkset into the display and remote units and installers can communicate over fiber in the same fashion as over copper. FIBERTEK supports network specific certification tests including 1000Base-LX and 1000Base-SX for Gigabit Ethernet. This allows the installer to easily certify fiber for the most common network types. All fiber tests are stored in the same way as copper tests and can be uploaded to a PC.

TRACETEKMMM ....... Tester for multi-mode ........... 2995.00
TRACETEKSM ....... Tester for single mode........... 2995.00
FIBERTEKMM28 ....... Hardcase, two 850 nm MM Adapters with ST Connectors, ST Launch Cables and ST Sleeves & Manual ......................................... 1995.00
FIBERTEKMM2P ...... All of the above plus a 1300 nm MM TRACETEK Adapter ............ 4695.00
FIBERTEKMMB ...... Hardcase, 850 nm & 1300 nm MM adapters with ST connectors, ST Launch Cables & ST Sleeves & Manual ............................. 1995.00
FIBERTEKMMPP ...... All of the above and a 1300 nm MM TRACETEK Adapter ............ 4695.00
FIBERTEKSM28 ....... Hardcase, 1310 nm & 1550 nm SM Adapters with FC connectors, FC launch Cables, FC Sleeves & Manual .................................. 6495.00
FIBERTEKSMPP ...... All of the above and a 1310 nm SM TRACETEK Adapter ............ 7195.00
FIBERTEKALLB ...... Hardcase, 850 nm MM, 1300 nm MM, 1310 nm SM, & 1550 nm SM Adapters, with ST/FC connectors, Launch Cables, and Sleeves & Manual ........................................ 6390.00
FIBERTEKALLPP ....... All of the above and 1300 nm MM and 1310 nm SM TRACETEK Adapters ........................................ 11790.00

**CALL FOR PRICE**

**IDEAL**

**Lantek Testers**
These testers are purpose-built for network installation and troubleshooting in copper and fiber environments. The LANTEK 7 is the world’s first cable tester able to measure up to 750 MHz and capable of certifying to the full 600 MHz range specified in the Category 7/ISO F standards. The LANTEK 6 is a fully compliant Category 6/ISO E cable tester with a frequency range up to 350 MHz. Supports testing requirements for CAT 6a/7/ISO-F and beyond. The PREMIUM Package includes 4 batteries, PCMCIA Adapter, 64 MB Flash Card, USB Port Flash Card Reader for PC, Dual Bay Battery Charger, and Deluxe Hard Carry Case.

LANTEK6P .......... 350 MHz tester ........... 6995.00
LANTEK7P .......... 750 MHz tester .......... 7995.00

**CALL FOR PRICE**

**Lantek Testers PRO**
The LinkMaster™ PRO is a hand-held, LCD LAN and voice cable tester that performs wire mapping, identification of room outlets, continuity and configuration testing, sends tone, plus measures cable length. Made for simple, one-person operation, this handheld tester is suitable for use with all shielded or unshielded twisted pair and Coax cables types. IDEAL offers three LinkMaster PRO kits - two large ones with all available accessories (8 coax remotes, 8-1TP remotes, adapters) and the other one with only a UTP remote and a Coax remote.

33-880 ........ LinkMaster™ PRO XL Kit ...... 350.00
33-825 ........ LinkMaster™ PRO Large kit for unshielded cables ...... 289.00
33-826 ........ LinkMaster™ PRO Large kit for shielded cables .......... 289.00

**CALL FOR PRICE**

**IDEAL**

**VDV MultiMedia Cable Tester Kit**
Comprehensive testing for Voice, Data and Video applications. Designed for testing in residential and commercial environments. Supports RJ11/12, RJ45, and coax F-Connector cabling and interfaces. Easy-to-read LCD display with PASS/Miswire indicators, wrapmap display and troubleshooting modes. Multi-tone support for cable tracing and fault isolation. Convenient internal storage for remote and capacity to support additional remotes. **LIST**

33-856 .................. 99.95

**CALL FOR PRICE**
**LEADER**  
**LF983**  
CATV, Broadcast, and Satellite Signal Level  
**Meter**

Measures analog signal levels for VHF/UHF/FM/ CATV, as well as digital (BSV, OFDM, QAM 16- 256) & satellite analog & digital (QPSK, BPSK, BPSK, MSK) modes. Sub-band frequency coverage from 5 to 55 MHz is standard. Storage of 200 sets of data & 200 setups facilitates data collection and cloning. Data logger stores readings direct to a standard flash memory card and then easily transferred to a PC. Resume on power-up returns to the last screen viewed. Audio monitoring is via a built-in speaker & line output. A simple spectrum display for VHF/UHF/FM analog & digital broadcasts now has selectable cursors useful for cable modem testing. A video-out jack sends, in the clear, composite video to a color picture monitor. Analog and digital reception is verified with a basic spectrum display. For satellite, satellite, C/N and LNB drive is provided. Programmable power-off extends operating time. The meter is supplied with a charger/adapter, battery pack, spare battery, carry case and a carrying case.

**CALL FOR PRICE**

**LEADER**  
**LV5152DA**  
HDTV Digital and Analog Waveform Monitor  
Designed to handle 720p, 1080i & 1080i signals, the LV5152D has 2 serial inputs and one 3-wire analog input, with capability to monitor all digital data at all lines & addresses. Vertical amperes display 30MHz bandwidth. Other features: EDH error reporting/alarms, waveform, vector, picture & stereo monitoring, overlay, parade & timing waveforms, precision cursor level & 10-setup memory. LIST LV5152DA ..............................................16995.00

**CALL FOR PRICE**

**LEADER**  
**LV5700A**  
HD/SD SDI Video Monitor  
A compact waveform monitor for HD/SD-SDI signals with XGA TFT color LCD in an adjustable tilt front panel & Y/pb/pr or y/br/gr pixel output. Fourteen HD-SDI & SD-SDI formats are automatically detected. Extensive monitoring functions include waveform (VCOC, VSYNC, waveform, vector, picture, & stereo monitoring), freeze mode allows comparisons of different SDI input signals. Digital audio from HD/SD groups (1 & 2) or (3 & 4) are dis-embedded & output as 4 pairs of AES/EBU. Digital audio is also displayed as 3:1, 3:2, or 3:2:2 surrounds images, multi-issoups & B-Ch bar graphs. Digital audio allows dynamic compression, precision digital cursors, menu control of storage of 100 front-panel setups, flash card, USB and Ethernet round out the operating features. User-adjustable alarm error thresholds are provided for digital component level ranges. Ethernet allows full remote control operation and monitoring of operating conditions including alarms. Cabinet sold separately.

**LIST LV5700A-007** HD/SD SDI Video Monitor ..........................16945.00
**LV5700A-007-P70...** Eye pattern display option ..6395.00
**LV5700A-007-P71...** DC operation option ......................1045.00
**LV5700A-007-P72...** Additional SDI input module. 8495.00
**LV5700A-007-P73A...** NTSC/PAL analog input.

**CALL FOR PRICE**

**LEADER**  
**LV5750**  
Portable Multi-SDI Monitor  
This compact multi-format HD/SD SDI monitor with color XGA LCD displays waveform, vectorscope, picture, status, timecode, and audio monitoring for SDI sources w/ auto detection of 20 standard formats. Displays can be viewed in various combinations side by side or as a four in one multi-display. A composite signal conversion converts SDI component signals into pseudo-composite waveform or vector for NTSC or PAL. Complete protocol test and analysis functions are provided. Variable vector gain includes onscreen readout for optimizing digital camera CCU set up with Chroma Du Monde chip charts. 5.5 lbs. LIST LV5750 ......................................................2500.00

**CALL FOR PRICE**

**LEADER**  
**LV5100D/DE**  
Analog & Component/Composite Waveform Monitor  
Monitors 3 channels for component operations & adds a 4th for simultaneous composite monitoring. Capable of handling 525/60, 625/50 & 1125/60 systems & vertical bandwidth to 30MHz allows for monitoring in conventional environments. Waveforms may be monitored in overlaid & parade forms & the component vector display shows chroma signal accuracy. Compatible with Betacam, MII, SMPTE, Y, Pb, Pr and RGB. Presets may be stored for 12 settings.

**LIST LV5100D** ..............................................6495.00
**LV5100D-045...** Eye pattern version ..........................7795.00

**CALL FOR PRICE**

**FAX: 608-831-1890 | WWW.FULLDISCOUNT.COM 8AM-8PM M-F CST | 10AM-4PM SAT CST**

**LEADER**  
**LF943D**  
**TV Signal Strength Meters**

The model LF 943D TV Signal Level Meter enables speedy and accurate measurement of CATV, FM and VHF/UHF TV signals. This RF level meter measures levels of digital broadcast signals for MSK, BPSK, QPSK, 16 to 256 QAM, OFDM and BS/8 modes as well as conventional analog broadcast signals. Programmable presets are provided for storage and recall of ten arbitrary frequencies which could be set for frequently used, cable, TVFM broadcast or pilot signal channels. The large digital display for level readout and bar graph level indicator for antenna installation enhances fast and accurate level measurements. This compact & lightweight meter is ideal for VHF/UHF antenna and CATV installations. The LF943D adds the ability to work down to 5MHz for both upstream and downstream CATV testing.

**LIST LF941D...** 46 MHz – 870 MHz operation ...........895.00
**LF943D...** 45 MHz – 870 MHz operation ...........998.00

**CALL FOR PRICE**
**LEADER**

**LV5836C Surround Sound Monitor**
Model LV 5836C is capable of displaying a precise surround-sound image. Both L-Ctr-R-L (3-1) and L-Ctr-R-LS-LS-R (3-2) are accommodated as well as the 5.1 Dolby system in the form of 6-channel AES/EBU digital audio. Dedicated bargraph level indicators are provided including a dedicated display for subwoofer. Six multi-Lissajous displays are available to show phase and polarity between pairs in the five channel group. Accepts six channels of AES/EBU digital audio as well as 5 channels of analog audio in both balanced and unbalanced form. A spot killer protects the CRT from extended no-signal operation.

**Minirator**
Minirator has a Sine/Square precision instruments. The Battery powered handheld Minilyzer & Minstruments 5870 Combo Waveform Monitor and Vectorscope Features include SCH measuring capability w/digital readout, full line selection, simultaneousoverlaid display capability, DC power standard and is half rack mounted. Ideal for the studio, service bench, or EFP/ENG van.

**NTI-Amercia**

**Mininstruments Miniator & Minilyzer**
Battery powered handheld precision instruments. The Miniator has a Sine/Square signal generator, White/Pink noise generator, polarity test signal, sweep, 1/3rd octave step, RCA and XLR connectors. The Minilyzer has a built-in mic for polarity test, XLR mic/line input & RCA line input, SPEAKER amp, test microphone cables with any combination of THD+N distortion, VU/PWM, frequency, balance error, spectrum analyzer, response graph, scope.

**PHONIC Handheld Audio Analyzers**
Highly accurate handheld audio analyzers that give professional sound engineers a rich array of tools, including 31-band real time spectrum analysis, SPL and Line meter, internal noise generator, EQ setting program, microphone calibation and the ability to check speaker phase. All functions and menus can be accessed through a central jog dial, meaning you only need one hand to operate it. This audio assistant comes loaded with handy features like a real-time spectrum analyzer, phase test, cable test, a noise generator, a jog dial, and visible backlight to help you see your progress in dark environments. The PAA2 has a USB port to connect instantly to any desktop or laptop computer for easy upload and download of information and settings.

**RANE RA30 Realtime Analyzer**
The Rane RA 30 Realtime Analyzer is a single rack space unit providing 30 bands of realtime frequency/amplitude information in a 5-LED per band format. The RA 30 has three functions: a realtime analyzer with pink noise generator, 1/3 octave increments at 1,3, or 6dB; an SPL meter with 1dB resolution and A or C weighted filters; and a stereo VU meter with 2 second peak hold and 1.5 dB resolution. Unit includes an electret condenser mic, MIC2. I/O includes a pink noise output jack, XLR aux mic input, & 1/4" TRS stereo line inputs.

**SAMSON D-1500 Digital Real Time Analyzer**
31 band RTA with large LED display, internal signal generator (sine, white, pink), test mic. input, and phase correlation & VU Meters. Linkable via MIDI or DoNet System Interface. Companion device to Samson D2500 graphic EQ. Companion device to Qbox. D-Net interface module.

**WE’VE GOT YOUR PARTS**
We have parts for every manufacturer’s product that we sell. Give us a call & let us know what you are looking for.
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**Tone & Noise Plugs**
No longer a standard XLR microphone connector, the Tone and Noise Plugs offer a handy test device for sound system troubleshooting, calibration and analysis. Functions are switched by the touch a button and no batteries are required. Tone Plug: 5-sine wave tones at 100, 250, 400,1K and 10KHz, 5-special function test signals including: 40/240 Hz signal for testing sub-woofers, crossovers & amplifiers; unique, short duration, multi-freq. pulse for speaker and effect time delays; amplitude sweep for adjusting compressors and tape levels; automatic frequency stepping for tracing wiring; LED indicator for testing phantom power and microphone cables.

**DMX35T Cable Tester**
This cable tester checks 3 and 5 pin XLR, DMX lighting cables and also indicates the presence of the DMX DATA signal when connected to a functioning control line. 3 pin XLR jacks also test microphone cables for opens, shorts or reverse connections.

**Q-Box**
The Q-Box is the all-in-one audio line tester perfectly suited for live sound and installation work. In one battery powered box you have a microphone connector, the Tone and Nois Plug: Precise pink noise generator, full-bandwidth, LED indicator for testing phantom power and microphone cables.