

**AudioControl**®

**SA-3055**

Competition Autosound Analyzer



## Spectrum Analyzer / SPL Meter

Autosound Competition, One-Third Octave, Memories, Pink Noise, and More

### Serious Tool

*- Exclusively Car Stereo*

Designed exclusively for auto sound tuning and competitions, the new SA-3055 is a microprocessor based, digitally controlled, precision real time spectrum analyzer and SPL meter. Based on the world famous SA-3050, the new SA-3055 contains all of AudioControl's knowledge and experience accumulated from innovating real time spectrum analyzers since our first in 1977. This is a serious professional tool.

### Better Sound

*- Making Good Great*

See what you can hear and hear what you are seeing. The real time frequency display of the SA-3055 shows sound in 30 one-third octave bands for precise sound system tuning. Adjust individual systems to each car's unique acoustics -- with a printout to document the results.

### Easier Contests

*- Automatic Scoring*

With built in software for major contest groups, the SA-3055 gives an on-screen score while printing more detailed information. A few quick button pushes, and you can see your score during a contest or while preparing for the big event.

### Sound Pressure Level (SPL)

*- Higher and Higher*

Whether it is running SPL drag racing contests or tuning for the highest SPL, the SA-3055 makes both easy. For contests or just practicing, the SA-3055 counts down 30 seconds, continuously measures SPL and displays the peak value. No watching the unit to catch the highest number.

### Self-contained

*- No pluggy, just play*

With it's built in pink noise generator and functioning on it's own operating system, the SA-3055 is a quick setup, stand

alone analyzer that does not depend on an expensive PC or other gear. No updating of operating systems or hassles of a computer. Just flip the power switch and you are in business.

### Portable

*- Over Your Shoulder*

All in one, the SA-3055 comes with a rugged soft carrying case and is easy to carry from the install bay to the parking lot. The battery pack, with it's charger built inside the unit, operates the analyzer for nearly five hours.

### Rugged and Reliable

*- Built to last*

In its metal case and with its pro sound construction, the reliability of the SA-3055 is legendary. Over the years, various units have still functioned after studio fires, rolling down stairs, and being run over by a truck.

### Easy to Use

*- Point and Shoot*

No menus, no mouse, and no training programs to run the SA-3055. From the first seconds, you are making measurements - not setting parameters or trying to remember commands. One minute you can be using it in the install bay and the next on the sales floor.

### Many Other Uses

*- Level Setting and Testing*

Top performance comes from careful level setting, something not easy to do by ear. The new RCA input makes setting these levels as simple as plugging in each component and adjusting the voltage. If you want to test a component, use the new RCA input to insure everything is working correctly. Troubleshooting and performance improvement made easy. Serious tool.

**AudioControl**®  
*making good stereo sound better*®



## High SPL Upgrade

The SPL-175 is a high SPL upgrade for measuring sound pressure levels between 110 and 175 dB. The upgrade includes a special, sierra white microphone in addition to the standard mike (maximum 135 dB SPL) supplied with the SA-3055. Special software is also part of the upgrade.

Based on the world famous SPL-170, the SPL-175 is very rugged and reliable as proven by thousands of contest in over thirty countries around the world. Due to the nature and use of this upgrade, it is only factory installed.

## VGA Monitor Output Upgrade

Designed for SPL drag racing, the VGA-100 upgrade outputs to a VGA monitor, or TV with VGA adapter, SPL and scoring information from the SA-3055. The output is in big bold graphics easily readable by the contest crowd. The upgrade, including a separate microprocessor for dependable operation, is completely internal to the analyzer.

The VGA-100 is factory installed and tested. Units of the SA-3050A, starting in "D" serial number, may also be upgraded at the factory. Planned availability is Summer 1997.

## Specifications

**Instrument type:** Professional car stereo, digitally controlled, acoustic analyzer, measures one-third octave frequency response and sound pressure level, automatic contest scoring and printouts, completely self-contained and portable.

**Inputs:** (all inputs are unweighted)  
 one balanced, low impedance, +12V phantom powered, 3 pin XLR (Neutrik D), microphone type, suitable for 44dB to 175 dB SPL (optional, 135 dB maximum standard)  
 one high impedance (one megaohm), unbalanced RCA type, suitable for -54 to +36 dBu, zero dBu=100 dB SPL  
 one high impedance (10K ohm), balanced 1/4" tip, ring, sleeve type, suitable for -54 to +36 dBu, zero dBu=100 dB SPL

**Outputs:** Pink noise, unbalanced 1/4" type, with 150 mW and level control  
 Printer, centronics parallel, DB-25 standard connector, multiple output formats automatically generated based on program selected.

*Due to continuing product improvement, specifications are subject to change without notice, like the Pacific Northwest weather. This fact sheet written on a really grey and gloomy day brightened by a great product.*

**Display:** Screen; high brightness and contrast, large viewing angle, 2.5" high by 7.8" long, 9 X 31 LED matrix  
 Resolution; frequency response, 1,2,3, or 4 dB per LED, settable from front panel; SPL, in centibels (one-tenth decibels), both display types have peak hold options  
 Decay Time; fast, medium, one second averaged slow, 20 second averaged slow  
 Frequency centers; 30 one-third octave bands from 25 to 20 kHz on ISO preferred 1/3 octave center frequencies.

**Microphones:** For both microphones; electret, flat response, omnidirectional, condenser type with 3 pin XLR connector. 15 foot cable supplied, maximum cable length recommended is 250 feet.  
 Standard, 4 inch, short nose, nickel plate, tube. Suitable range is from 44 dB to 135 dB SPL.  
 High SPL (optional upgrade), 6 inch long nose, sierra white tube. Suitable range is from 110 dB to 175 dB SPL.

**Contest Scoring:** Frequency response, USAC (North America only) and IASCA, on screen score as well as detailed printout by frequency

**SPL:** Thirty second countdown, peak hold on highest SPL, fast capture timing via micro processor

**Batteries:** Memories, internal lithium battery backed CMOS RAM, for memories and contest scoring settings  
 Operating; internal gel cells with integral charging circuit, charging status via two color power LED on front of unit. No separate charger required. Continuous operation capacity is about four hours, intermittent use, five hours. 50% re-charge in three hours.

**Physical:** Dimensions, smaller than a breadbox, 4.1" tall, 10" wide, 13.5" deep. 2" high flip out front feet for easy viewing.  
 Weight, complete package, carrying weight, 11.5 pounds  
 Soft carrying case, large front pocket for microphones, cables and power cord. Shoulder and hand carrying straps with quick release connectors. Bottom power cord access flap for effortless battery re-charging.

**Country of Origin:** Designed and manufactured in the United States of America

# AudioControl®

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