

# SURROUNDTRAXX™

## Product Data Sheet



## SurroundTraxx Multi-Train Sound System for DCC

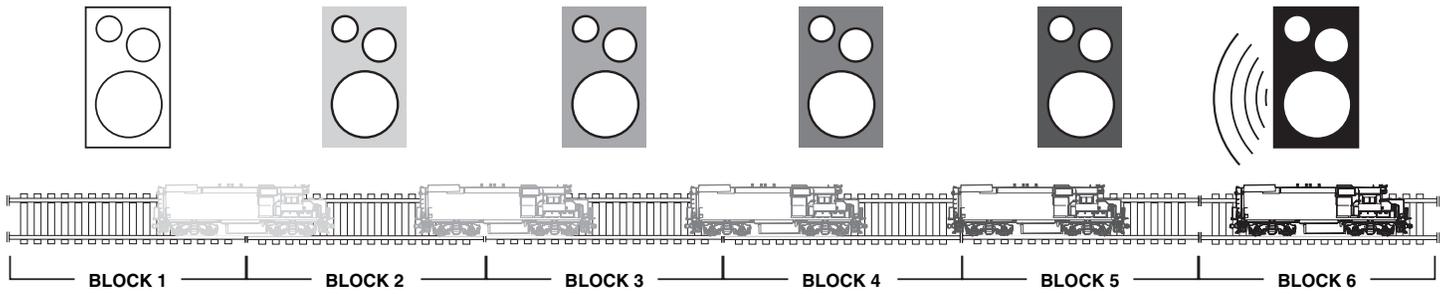
SurroundTraxx is a major breakthrough in sound systems for model trains! For the first time, a sound system has been designed with multiple trains in mind. SurroundTraxx gives you the realism of high-fidelity sound moving with your train as it travels about the layout without installing speakers onboard the engine!

- **Sounds for a wide variety of both Steam and Diesel locomotives**
- **No onboard speakers are necessary! Perfect for N-Scale and small Narrow Gauge layouts**
- **Six independent sound channels reproduce the sounds of up to six different locomotives simultaneously.**



SurroundTraxx begins with a multiplicity of audio speakers that are strategically placed in hidden locations around the layout. Using the latest Digital Signal Processing (DSP) technology and advanced block detection techniques, SurroundTraxx faithfully reproduces the sounds made by each train on the layout and directs the sound to the speaker closest to the trains' location. As a train moves along its route, SurroundTraxx makes continuous adjustments to the sound level of each speaker so that the sound appears to follow the train around the layout.

SurroundTraxx does not simply switch the sound from speaker to speaker but uses an intelligent cross fade algorithm that factors in train speed, direction and distance between speakers. The sound makes a smooth transition as your train travels from one sound zone to the next without abrupt pops or thumps.



## So Advanced It's Wired to the Future!

SurroundTraxx is so advanced, it's the only sound system designed specifically to work within the DCC environment, the future of model train control. SurroundTraxx is the only sound system that uses this technology to reproduce multiple locomotive sounds for multiple trains simultaneously *regardless of your trains' location*. Likewise, it is the only sound system with the capability to mix and match prime movers in a multi-engine lashup.

SurroundTraxx is designed for use with Digitrax® command control systems and accessories; other command stations will be supported in the future. SurroundTraxx has six independent sound channels and a dynamic mixer to reproduce the sounds of up to six different locomotives simultaneously. The Command Station provides basic information about the train, such as speed and function setting in the DCC signal.

Special transponding block detectors provide the identity and location of each train. Each train has at least one transponding decoder, which allows it to talk back to the system. SurroundTraxx uses this information to correlate where to send the sound for that train. If a situation occurs where two or more locomotives are in the same location such as on a passing siding, the sounds for each locomotive will be gradually mixed together as they approach each other and then separated as they leave.

## SurroundTraxx DSP-80

**\$595.00\*!** \* Manufacturer's Suggested List Price

Scheduled Delivery Spring 2009; Order P.N. 840001

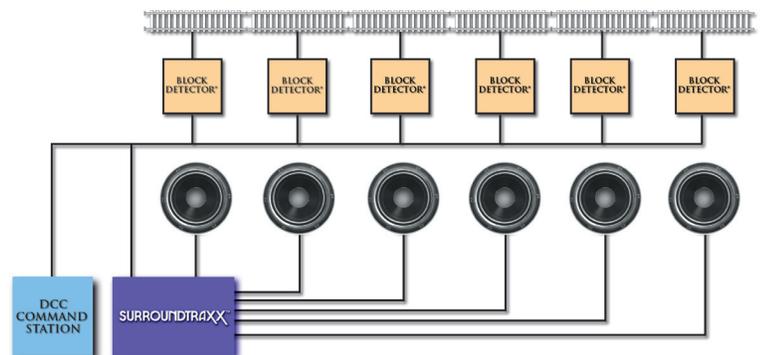
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Specifications effective June 25, 2008 and are subject to change without notice.

## Getting Started is Simple

Simple layouts can use SurroundTraxx with one speaker as an undertable sound system and enjoy multiple locomotive sounds. This requires no additional hardware other than a speaker and will get you up and running in no time!

To take full advantage of SurroundTraxx' unique capabilities, and all available sound zones, each system requires at least one BDL-168 and two RX-4's, available from Digitrax, to be installed into the layout. Each train must also be equipped with at least one transponder or transponding decoder for the full roaming speaker effect. Each SurroundTraxx system supports up to six blocks and six speakers, but multiple SurroundTraxx systems can be linked together for larger layouts.



\* Each block detector requires 1/4 BDL-168 and 1/4 RX-4.

COMPATIBLE WITH  
NMRA DCC STANDARDS AND  
RECOMMENDED PRACTICES



**SOUNDTRAXX®**  
New Dimensions in Digital Sound Technology

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