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Smart v.7 Di TRAINING CLASS



In support of Smart v.7 Di, Rational Acoustics has developed an intensive, single day class specific to the two-channel Smart v.7 Di platform.

At the completion of a single day Smart v.7 Di seminar, attendees will have been guided through configuring and running RTA, Spectrograph, and Transfer Function measurements using Smart v.7 Di. Many of the fundamental concepts used in Smart will be addressed throughout the class including Averaging, Banding, Smoothing and Coherence. Specific topics covered include configuring v.7 Di for data acquisition and handling, understanding the FFT and cases for Single Channel vs. Dual Channel Measurements. Application examples will demonstrate the techniques and processes used for essential system engineering tasks.

Live measurements will be featured throughout the class to demonstrate how and why Smart v.7 Di features function as they do, as well as how to interpret the data obtained to achieve reliable measurements. More advanced topics such as Phase and Live Impulse Response will be covered only if the topics are appropriate for the experience/skill level of a particular class group.

Class Schedule:

All Smart training classes are posted on our web site as soon as the class is confirmed and open for registration. For the most up-to-date listing of confirmed classes, please see the Training Section of www.rationalacoustics.com

Announcements for each class are also e-mailed to our newsletter mailing list. To register for the Rational Acoustics mailing list go to the www.rationalacoustics.com homepage and click on the 'sign up for newsletter' button.

Registration:

Class registration is available either via the online class registration form in the Training Section of our web site or by contacting Rational Acoustics directly at +1-860-928-7828

Class Pricing

Smart v.7 Di: \$300 USD
One-Day, 9AM - 5PM

Class fees include all class materials as well as breakfast and lunch on all class days.

A \$50 non-refundable deposit is due at the time of registration, with balance due one week prior to the class start date. Class fees may be paid via credit card or check, or can be paid on-location via check or cash with prior arrangement.

Discounts for groups of 5+ people registering from the same company are available. Please see the training section of rationalacoustics.com for more information.

Class Software Discounts:

Attendees of Smart Training Classes are eligible to receive discounts on Smart software (both new licenses and upgrades) either via a prepaid class/license combo purchase or via a 90-day post class license special. Please contact us directly for more information.



Thank you for building such a great tool for the tech kit and for developing a very helpful and educational class to teach it



-Eric Matland, NYC Smart Class Attendee

Smaart v.7 Di Class Curriculum

Format: Classroom Lecture and Presentation

Length: 1 Days (8 hours)

Overview

The **Smaart v.7 Di Training Class** covers the fundamentals of using Smaart v.7 Di to make basic RTA, Spectrograph and Transfer Function measurements. Special attention is paid throughout the course to the subject of how to make valid and useful measurements, as opposed to simply making cool squiggly lines appear on the screen. This course focuses on providing the attendee with a functional knowledge of how Smaart v.7 Di operates as a tool and demonstrates techniques and processes for utilizing Smaart v.7 Di in essential system engineering tasks. Both classroom lecture and lab formats are utilized as well as in-class measurements via a signal distribution system to distribute the instructor's stereo measurement signals to the entire class. Please note the "Attendee Equipment" section below.

Topics Covered Include (but not limited to):

Context: Why & How we use Smaart:

What is sound and how do we analyze it ? / Waveform, Transforms & FFT / Time Domain vs. Frequency Domain / Dual-Channel vs. Single-Channel Measurements / Spectrum & Transfer Function Measurements / Dual-Channel Measurement Issues

Smaart v.7 Di:

Software install, update & upgrade / Interface Tour / Input Device Configuration / RTA Measurements / Averaging / Banding / Spectrograph / Transfer Function Measurements / Measuring Frequency Response / Capturing and Naming Traces

Measurement Exercises :

Determining Relative Level / Multi-position measurements / Averaging / Loudspeaker Equalization / Polarity vs. Phase / Delay Systems / Subwoofer Alignment

Prerequisites:

The Smaart v.7 Di course is open to all interested persons. Prior system alignment experience is not required, but is definitely helpful. This course assumes a working knowledge of professional sound system engineering practices and basic audio fundamentals. If you have any questions concerning course prerequisites, please do not hesitate to contact Rational Acoustics prior to registration.

Attendee Equipment:

While not required, Smaart v.7 Di class attendees are *strongly encouraged* to bring their laptop computers with Smaart v.7 Di measurement software installed (fully featured demo versions are available online) and a stereo line level input (either via a built-in sound card or an external preamp unit) The measurement signals used in the instruction of the Smaart v.7 Di class will be made available to the attendees via a stereo distribution system (normally via 35mm TRS and stereo RCA). Bringing complete measurement rigs (including mixers, mics, etc.) is not necessary.

If you have any questions concerning equipment requirements, please contact Rational Acoustics prior to registration.