



win|RTA Standard
QuickStart Guide

Version 2.2

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Installation

Unzip the distribution to a folder on your Desktop. Double-click on Setup and follow the directions. Start the program and open the Config menu.

Select Interfaces, then click on Select. After you have chosen the audio interface, and entered any other information you wish to save, click Save Configuration, and your settings will be saved for your next session.

Note on the software:

When you see a button with a bar on the right side, this indicates that when you click on it, a drop-down menu will appear.



NOTICE

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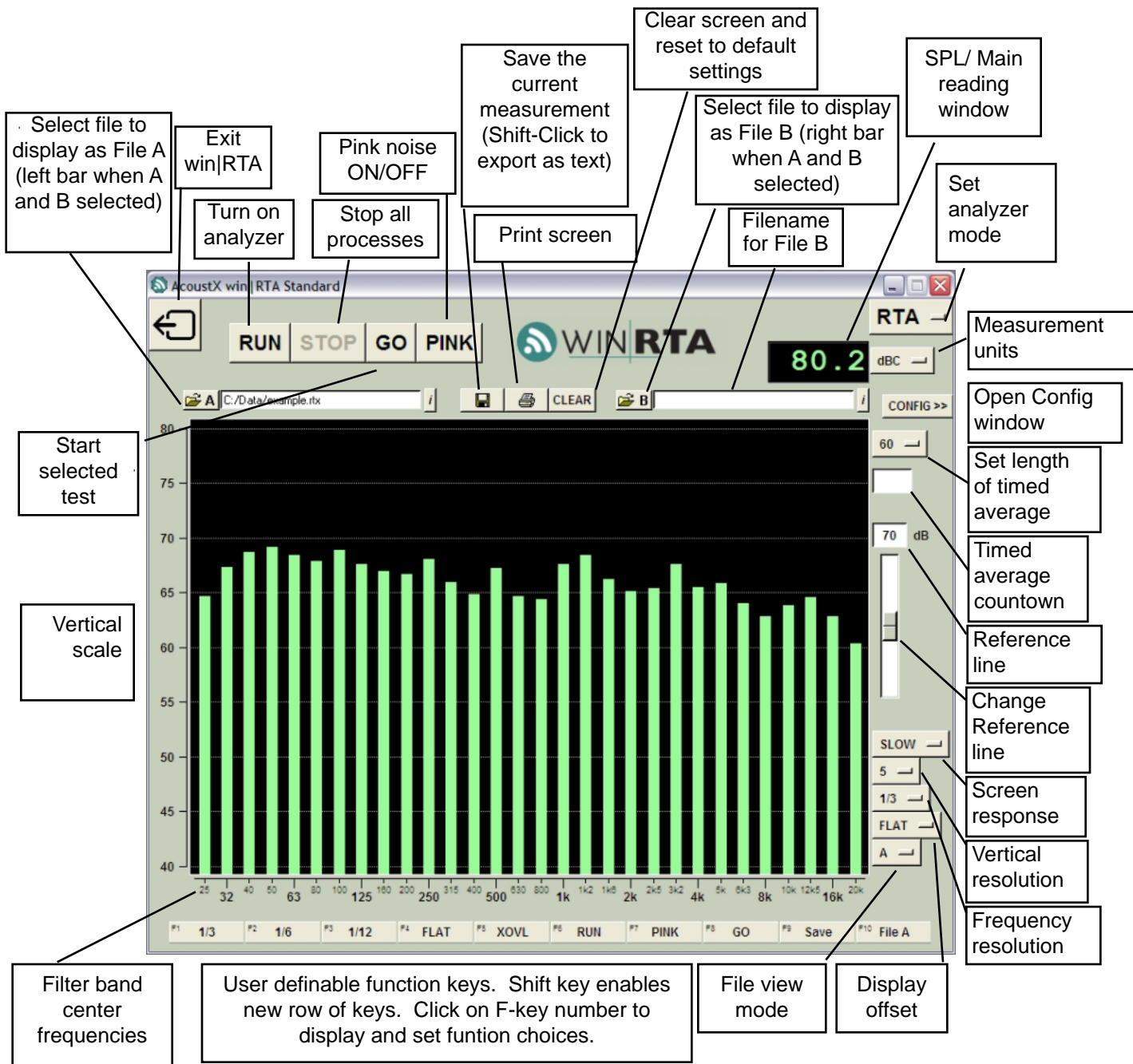
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Main Screen



SPECIAL KEYS AND FUNCTIONS

- ESC key kills all processes
- PgUp/PgDn or mouse wheel moves reference line
- Shift shows new row of function keys
- Shift-click on Save button to export as text (.TXT)
- Shift-click and drag mouse on display to zoom view in RTA mode (click to un-zoom)
- Right-click displays edit menu when in comment
- Hold cursor over filename field to see full pathname
- Shift-click-drag moves both channel gains together in X-Y

Configuration: Profile

Configuration Options

Profile Display Mic

Interfaces Input Output

Save Configuration

Operator

Company

Room ID

Data Dir

Length Units

Feet Meters

Window Size

Normal Netbook

Write configuration data to disk

Technician name

Name of theatre or facility

Organization

Selected data directory Defaults to "My Documents"

Set default units for measurements

Normal is for displays 1024x768 or larger. Netbook is for the smaller netbook screens, typically 1024x600. Save Configuration and restart win|RTA to take effect.

Configuration: Display

Configuration Options

Profile
Display
Mic

Interfaces
Input
Output

Save Configuration

Octave Grid

Show Values

Balloon Help

Cell Uniformity

User Avg Time

X-Curve Position

Variable X-Curve

ST202 # Seats

Sliding Knee Room Length

Data Averaging

File #1		Clear
File #2		Clear
File #3		Clear
File #4		Clear

Gain Leveling

Calculate

Show bar values when cursor is moved over a bar

Set display for Cat. No. 566 test film (film projectors)

Enable Variable X-curve

Average data from previous measurements. This is useful if you wish to use one microphone and get results similar to using the multiplexer. Make measurements at four different positions, load the four files, and click Calculate. For best results, load the data taken at reference position into File #1 and enable Gain Leveling.

Display octave markers

Enable balloon help

Set length of User Average

Change the vertical position of the X-curve

The Variable X-Curve can either change the slope of the curve (according to SMPTE ST202) or the frequency at which the slope begins (the knee).

Configuration: Microphones and Interfaces

Configuration Options

Profile | Display | **Mic**

Interfaces | Input | Output

Save Configuration

Apply Mic Calibration

Mic S/N | 1001 | Clear

Mic Bump Adjustment (dB)

Gain | 0.0

Enable and load microphone calibration file.

Adjust the microphone gain.

Configuration Options

Profile | Display | Mic

Interfaces | Input | Output

Save Configuration

Audio Interface

Select | USBPre

Select audio interface

Configuration: Input and Output

Configuration Options

Profile Display Mic

Interfaces **Input** Output

Save Configuration

Input

Line S/PDIF

Channel

1 2

High Pass Filter

0 dBFS Reference

Full scale square wave

Full scale sine wave

Select Input

Select input channel

Enable 22 Hz high pass filter for FLAT, Line In, S/PDIF

Select 0 dBFS reference. There is a 3 dB difference between settings

Configuration Options

Profile Display Mic

Interfaces Input **Output**

Save Configuration

Pink Sine

Norm 500-2k

Analog S/PDIF

Level mV **dBV** dBu

Ch 1

Ch 2

Configure PINK Button behavior

Select test signal output port

Set units of measure and level for outputs

Enable outputs. In Analog mode, the channels can be named.

NOTE: The functionality shown on these screens will vary depending on the audio interface. This image shows the configuration for the USBPre. Output voltage is only correct when using an approved interface.

X-Y Oscilloscope

The screenshot displays the AcoustX win | RTA software interface. At the top, there are control buttons: RUN, STOP, GO, and PINK. The main window title is "AcoustX win | RTA". The interface is divided into several sections:

- Mode Select:** Located at the top right, it includes a dropdown menu currently set to "X-Y" and buttons for "X-Y", "XY+RTA", and "Dual".
- Channel Selection:** Two input channels, A and B, are visible at the top. Channel A is selected.
- RTA Plot:** A large bar graph on the right side shows the frequency response. The y-axis ranges from -60 to -20 dBV, and the x-axis shows frequency components from 25 to 20 kHz. The plot shows a relatively flat response with some variations.
- X-Y Oscilloscope:** A smaller plot on the left side shows a green diagonal line, representing the X-Y relationship between the two channels.
- Control Panels:** Below the plots, there are control panels for both X and Y channels. Each panel includes a "to RTA" button, a numerical display (114 for X, 213 for Y), and three unit selection buttons (mV, dBV, dBu). Below these are "Gain" and "Position" sliders for each channel.

Callouts with arrows point to specific controls:

- "Mode Select" points to the "X-Y" dropdown menu.
- "Set channel to display on RTA" points to the "to RTA" button for channel X.
- "Set measurement units" points to the unit selection buttons (mV, dBV, dBu) for channel X.
- "Adjust X gain" points to the "Gain" slider for channel X.
- "Move X-Y display horizontally" points to the "Position" slider for channel X.
- "Adjust Y gain" points to the "Gain" slider for channel Y.
- "Move X-Y display vertically" points to the "Position" slider for channel Y.

Dual Trace Oscilloscope

The screenshot displays the AcoustX win | RTA software interface. At the top, there are control buttons: RUN, STOP, GO, and PINK. The main display area shows two channels of audio data (Ch 1 and Ch 2) plotted on a grid. Channel 1 has a measurement of 188 and Channel 2 has a measurement of 173. The interface includes several callout boxes pointing to specific controls:

- Mode select:** Points to the X-Y, XY+RTA, and Dual mode selection buttons.
- Adjust Channel 1 vertical position:** Points to the vertical slider for Channel 1.
- Adjust Channel 2 vertical position:** Points to the vertical slider for Channel 2.
- Set measurement units:** Points to the mV, dBV, and dBu unit selection buttons for both channels.
- Set vertical gain:** Points to the gain selection buttons (10, 20, 50, 100, 200, 500, 1000, 2000, 5000) for both channels.
- Adjust refresh rate:** Points to the 20.0 Traces/Sec control.
- Adjust time base:** Points to the 6 mSec/Div control.
- Select channel for triggering:** Points to the Trig 1 and 2 selection buttons.
- Adjust trigger level:** Points to the trigger level slider.