IE-33 Version History _ Update Log

5.13.02, 12 Feb 2007
* Minor enhancements and bug fixes.

5.12.02, 7 Dec 2006
Filename maintenance version.

5.13, 09 Nov 2006
* Added warning screen if Calibration Constant is zero. If calibration is for some reason lost, the user now will be able to see this via a warning screen at software startup.
* Thumb button on left "edge" of iPAQ starts/stop chart recorder, as does leftmost face plate button.
* Corrected Strip Chart anomaly. Defined recording time now properly fills X axis of screen.
* Added stability when exiting software and re-entering when in Strip Chart mode.
* Corrected the cursor location readout in the Small SPL Window when a chart is loaded fro memory in the Strip Chart mode so that the time/location of the cursor and the amplitude are correct.

5.12.12, 11 Oct 2006
* Corrected SPL number in .ivi file header so that it reads a four digit number.
* Corrected "Average SPL" slot in .ivi file header so that it reads blank when an average SPL has not been recorded.

5.12.08, 8 September 2006
* Added a functionality where SPL in small SPL window now shows Average when the IE-33 is in Continuous Averaging mode and Average display selected in Options menu.
* Added a new feature to read from WAV file directly into IE-35 (treated as input) . . . the new option is in "Input Select".
* Corrected "Average-A" button label inconsistency when starting software in Average-P mode.
* Corrected a small calculation error in Power SPL Average; was inadvertently showing the arithmetic average.
* Made a modification to correctly reset the SPL meter display when changing decay integration times.
* Corrected an RT-60 pulse mode false triggering error that had crept into the code in the previous release version.

5.12, 7 July 2006
* Added SPL Averaging feature when in RTA Averaging mode.
In RTA, when Averaging, new Options Menu option "Show Average SPL" is shown (it becomes the default when RTA Averaging is activated). When selected, the small SPL window shows the average SPL, and the text in that window turns blue (to match the blue average curve on the RTA display). When a spectrum file is stored, during averaging, then the average SPL is

written to the file. (Previously, "0.0" was written as the SPL when averaging.) The version of the ".ivi" spectrum file has thus changed from 3.0 to 4.0, but the new files are backwards-compatible with previous IE-33 versions.
* Added new Screen Capture feature.
Tapping with the stylus in the "ScrnCap" button area will save a file called "IvieScreenX.bmp" in the "My Documents" folder of the PDA, where X is an integer. This is an image of the screen at the time the button was tapped.
* Corrected SD card file storage bug.
* Corrected RTA Weighting/Frequency Detect issue. When Frequency Detect is now used in conjunction with RTA weighting, the Frequency Detect employs the selected weighting filter.

5.6.0, 5 June 2006

* Improved RT-60 pink noise mode accuracy and stability.
* Changed default so that Peak Hold and RTA Weighting are off.
* Fixed bug in Continuous Averaging mode that affected high frequency RTA response.
* Fixed various GUI inconsistencies and "gotcha's"

5.9.5, 20 October 2005
* Corrected storage bug where Peak curve was not being stored correctly.
* Updated button/function labeling in RT-60 function module.
* Updated and cleaned up button labeling and fonts in several functions.

5.9.3
* Corrected memory storage bug where SPL value in a renamed, stored file was corrupted.

5.9, 31 January 2005
* Moved the Config file (IE33v5) to non volatile storage area. Now, even if battery charge is completely lost, the program can be reinstalled from resident CAB file (see 5.8.2 below) and the Config information, including Calibration Constant remains available and secure.
* Install shield for IE-33 version 5.9 now installs a small second program called "IvieEnable" which is necessary for entering authorization codes for various Ivie software Function Modules, including RT-60.
* Added feature to play wave file directly from IE-33 application software. "Play Test Wave" allow selection and playing of single wave file. "Play Test Loop" allows selection and continuous or "loop" playback of wave file.
* With this version, software provisions have been made facilitate compatibility with present (RT-60) and future optional software function modules.

5.8.2, 15 October 2004
* Added a CAB file for program install storage in the iPAQ file store area (see installation instruction note in the IE-33 instructions and on the Ivie web site (www.ivie.com). The full IE-33 application can be installed from the CAB file in the field without a PC.
* Removed the .exe file formerly stored in iPAQ file store from the install shield.

* Changed the numeric safety limits in the calibration screen to accommodate several other microphones with varying sensitivity.
* Improved the signal quality of the pink and white noise signal generator outputs.
* Changed the "STC" label to "NIC", to more accurately reflect the measurement.
* Default scope persistence now set to "none."
*Changed the "Clear All" memory function to also clear all file names in the Scratch memory locations.
* Fixed a bug in the display when moving from from the RTA/NC screen to the Volt meter.

5.7.3, 29 July 2004
* Enabled Frequency Detect function now availalbe in all RTA resolutions.
* Added feature to automatically turn off the Polarity pulse when exiting the Polarity function.
* Added functionality to LF Zoom and Standard Mode memory storage. Scratch memories buttons are now different colors to show whether the memory stored is Standard or LF Zoom.
* Added stored memory feature so that spectra stored as LF Zoom will only display in LF Zoom mode and spectra stored as Standard will only display in Standard mode.
* Added feature: When switching from Volt meter back to RTA, IE-33 "forces" units of measurement back to dB SPL.
* Added choice for a second IE-33M to the Input Select screen.
* Added a "beta version" of an "audio pass-through" feature.
* Addressed some memory labeling issues.
* Corrected some calibration storage functions.
* Added software correction to dual trace scope phase alignment (firmware programming also required).
* Fixed a bug when storing A or C weighted display spectrum and then displaying the stored memory.
* Fixed a bug in the white noise signal generator output when listening while in RTA mode.
* Cleaned up several small signal generator bugs.

5.7.1, 3 June 2004
* Made a major improvement in FFT binning as it resolves into Maximum Resolution.

5.6.1, 4 May 2004
* Added maximum voltage limit in Volt meter scale (20 VAC).
* Added a new Memory Details item in the Display menu which pops up a memory details window.
* Added a clarification text line in the Input Select screen for dual input selection.
* Fixed an LF Zoom memory mode bug so memories saved in zoom mode can be loaded and displayed in zoom mode.
* Fixed a bug where negative numbers could appear on the RTA amplitude scale.
* Added a warning screen when clearing individual memories in the memory manager screen.
* Added the ability to remember the Seat-to-Seat set/reset point within a session.

* Exchanged memory line colors 1 & 6, so that the first memory location displays a white spectrum curve.
* Weighted RTA display now carries over into displayed memories as well.
* Small SPL window "button" for changing measurement units has been graphically enhanced.
* Several bugs identified by beta testers and customers were identified and fixed.
* Added changes that allows PDA's with non-English OS (Korean, Japanese, Chinese, etc.) to function properly.

5.5, 18 Mar 2004
* Added Volt meter (0 to +20 dBu) function with VAC, V PP, dBu, and dBV. Uses both digital readout and analong "meter".
* (F)STC/NIC function now added for sound isolation - transmission loss measurements.
* Added dual trace function to Oscilloscope.
* Preferred Curve storage and renaming improved.
* IE-33 now uses 4096 bin FFT (with 2048 "real" data points) for double the previous FFT resolution.
* Added additional functionality in Signal Generator. RTA will now operate while pink noise is being generated.
* Increased LF Zoom resolution to 1 Hz.
* Added Left / Right cursor control to LF Zoom, NIC, Subtract modes.
* Subtract now works in LF Zoom mode.
* Added ability to vertically adjust placement of traces of Oscilloscope.
* Line level inputs now calibrated for 1 volt input.
* Sub-octave labels now use standard ISO center frequency labels
* D1, D2, D3 decay "ballistics" have been adjusted.
* "Gain Inheritance" feature implemented for switching between IE-33 functions.
* Storage spectrum file header enhanced for more information.
* Push function (on/off) in joystick has been disabled for more reliable joystick operation.
* Input selection and calibration has a new screen and labeling. Easier to get to and to use.
* Levels in .ivi stored file have been rounded to two decimal places.
* Several bugs identified by beta testers have been squashed.

5.0.01, 5 Nov 2003
* SPL meter large number now rounded to nearest integer.
* Fixes bug where different inputs in Input select were not having their CC values propagated to the Calibrate screen.
* Added NC and NR functions.

5.0, 3 Nov 2003
*FFT frame time reduced, more than doubling the speed of the RTA processing and display.
*Noise floor improved with Gain/Range switching.
*LF Zoom function added
*Frequency Detect in LF Zoom
*Input Select screen re-done and enhanced
*Calibration screen changed
*Config file renamed to: IE33v5.cfg

*Backup copy of config file now stored in non-volatile memory and automatically restored if main copy is lost.
*"Power Saver" function is removed due to inconsistancies in microphone supply voltage associated with this funciton.
* "Jacket Not Found" and other reinitialization errors and messages are now handled automatically and do not appear to the user.
* iPAQ may now be shut down while running IE-33 and will resume where it left off when the iPAQ is started again.
* iPAQ removal from jacket and reinsertion to jacket will not cause software lockup.

4.00, 5 Aug 2003
Initial Release Version