

IE-35 Version History Log

1.83, 4 January 2008

- * Spectrum file version (.ivi file) updated to 1.41 (it is backwards compatible). The spectrum file now contains information of if the spectrum file stores averaged information.
- * The memory buttons on the main software screen now show whether the stored information for that memory position is averaged, etc.
 - Arithmetic Average: memory button shows "<n>"
 - Power Average: memory button shows "[n]"
 - No average: memory button shows "n"
- * Some basic code clean-up, modification, and streamlining of dialogs associated with spectrum file storage.

1.82, December 2008

- * Unreleased interim update.

1.81, 19 Sep 2007

- * Added correction to Microsoft memory call bug to the Strip Chart memory functions as well.

1.80, 17 Sep 2007

- * Corrected a Microsoft memory call bug that in rare instances could create problems when renaming and storing spectrum files. The correction assures against file loss during renaming and storing.

1.76, 1.77, 1.78, 1.79

- * Interim releases with small bug fixes.

1.75, 14 Feb 2007

- * Added spectrograph display option in RTA.
- * Minor enhancements and bug fixes.

1.74, 14 Feb 2007

- * Added Spectrograph RTA display (octave and max res) in Options.
- * Changed memory manager: Current Directory now defaulted into filename chooser when saving memory to file
- * New progress indicator when playing a .wav file as the selected input. Wav file loops, but you know where you are in the file by viewing the progress indicator.

1.71, 6 Feb 2007

- * Removed 24 second choice in RT-60
- * Preferred Curve memory is now not cleared when "Clear All" is selected in the memory manager screen.
- * When exiting in Subtract mode, dB screen levels written in config file are saved levels.
- * IE35 Polarity sense invert ... due to inverting amp in IE35 PAL jacket.

1.70, 31 Jan 2007

- * Input Select now includes a choice for the IE-5P preamplifier.
- * Reordered the RT-60 array allocations.
- * A new "wait message" appears when the unit is measuring or processing RT-60 data.

1.68, 26 Jan 2007

- * Added an under-range indicator, visible only in the Volt meter function. It indicates when the digital input is under-ranging and reliable measurements are questionable. If the under-range indicator occurs you can increase the input gain by using the up/down hardware paddle on the Axim. Indicator appears as a small flashing red down-pointing arrow in the upper right corner of the screen. Visible in all functions. When the overload is removed, the arrow stops flashing, but remains visible. Tap on the arrow to remove it from the display.

1.67, 23 Jan 2007

- * Added a Current Gain Setting indicator. Gain of the input stage is displayed as a small number in the upper right of the main screen. Gain steps are 0, 10, 20, and 28. If an overload occurs (see over range indicator below) you can reduce gain by using the up/down hardware paddle on the Axim.

- * Added an Over-range Indicator in the upper right corner of the screen. Visible in all functions. A small red upward-pointing arrow flashes when the digital input overloads. When the overload is removed, the arrow stops flashing, but remains visible. Tap on the arrow to remove it from the display.

- * The RTA Weighting indicator (small yellow circle) in the upper right of the display has been moved to the left of the new over-range indicator position.

1.64, 20 Nov 2006

- * Corrected a start-up issue where IE-35 program would not start properly without PAL jacket attached to Axim.
- * Adjusted IE-35's internal .wav file player for greater compatibility with Wave file standards.

1.62, 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.
- * Corrected Strip Chart anomaly. Defined recording time now properly fills X axis of screen.
- * Added hardware button control to Strip Chart. As of this version, EITHER the "Calendar" hardware button (leftmost on face of Axim) OR the lower of the two thumb or "edge buttons" will start/stop the chart recorder.
- * 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 from memory in the Strip Chart mode so that the time/location of the cursor and the amplitude are correct.
- * Corrections made to Voltage calibration in the Volt meter function.

* Corrected a bug when loading memories in Max Res mode which caused the curve to be loaded to be other than the desired/correct curve.

1.57, 11 October 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.

1.55, 30 September 2006

* Made changes to the main Ivie driver (Ivie35.dll) to improve scope function accuracy in scope X/Y mode. The version, when installed, over-writes the older driver version. To install, remove the Axim from the Ivie PAL jacket, do a soft reset on the Axim, then connect to your PC via ActiveSync and execute the install/setup file from your PC.

1.53, 8 September 2006

* Added a functionality where SPL in small SPL window now shows Average when the IE-35 is in Continuous Averaging mode and Average display selected in Options menu.
* Added new feature to read from WAV file ... new option 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 ... wasn't being calculated quite accurately.
* Corrected RTA bar display in Power Average; was inadvertently showing the arithmetic average.
* Made a modification to correctly reset the SPL meter display when changing decay integration times.

1.45, 07 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-35 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.

* Corrected typo RT-60 pre-registration screen when selecting RT-60 function.

1.40, 5 June 2006

- * Added over-range indicator in the upper right corner of each screen. If A/D overloads, indicator comes on.
- * Improved RT-60 pink noise mode accuracy and stability.
- * Improved gain-ranging with hardware "paddle" on Axim.
- * Changed default so that Peak Hold and RTA Weighting are off.
- * Upgraded Info screen to add further diagnostic information.
- * "Hardened" jacket driver performance w/ regard to "no jacket found" error.
- * Corrected memory inconsistency in moving from Portrait to Landscape view and back again.
- * Corrected instability problem when pushing hardware buttons when RTA display in stopped mode.
- * Fixed bug in Continuous Averaging mode that affected high frequency RTA response.
- * Fixed Landscape mode layout issue to expose control buttons in memory management screen.
- * Touched up a number of GUI screens to improve graphics and layout.

1.31, 21 March 2006

- * Corrected GUI bug in Memory Manager while in Landscape view mode
- * Corrected gain ranging bug
- * Added text screen in IvieEnable to explain IvieEnable's purpose

1.28, 10 March 2006

- * Add RT-60 capability to IE-35 software (still an optional software module)
- * Added IvieEnable to install shield (for RT-60 enabling code)
- * Added some driver and FPGA version numbers to the Info screen
- * Fixed some memory issues (instrument state) between portrait and landscape views
- * Fixed erroneous "no jacket" issue
- * General default setup now leaves Peak Hold and RTA Weighting options off.

1.22, Original Release