

DBA Revision History

Version r1.0.7b

- Bugfix: Error when loading TIQ files with very big headers.

Version r1.0.7a

- Bugfix: Corrected Zoom function in 3D graph windows (IRgram and MERgram).
- New feature: Added support for real-time operation with device Anritsu MS2690A.
- New feature: Added function Pause, to pause the current processing.
- New feature: Added function Triggered Analysis, to analyze one symbol and pause.
- New feature: Added new sub-window "IRgram", representing the impulse response in a coloured graph.
- New feature: Output files (including TS) can be configured from a new generic grid-based dialog.
- New feature: Added support for DGZ+XML files from ANRITSU MS2692A.
- New feature: Implemented absolute (one count for each capture) BER measurement for both BER before viterbi and before RS.
- New feature: Added support for calculating channel power, as long as the source signal is given in Volts over 50 Ohm (tested with DGZ signals).
- New feature: Added a new option to Config Dialog to configure just a capture from external equipment, without analysis. This option will capture a signal with the specified parameters, and then copy the resulting file(s) to the specified location. This option is only available for Anritsu MS2690A.
- Main window can be resized at will. Initial size is 800x600, and minimum size permitted is 400x300.
- File export is activated in both in MERgram and IRgram.
- Viterbi synchronization algorithm is now more robust.
- Made visualization options persistent (stored in appconfig.ini) and independent for each graph.

Version r1.0.6a

- New feature: Signal files bigger than 2 GB can be analyzed.
- New feature: New sub-window with time response from non-interpolated channel estimation.
- New feature: A window (Hamming or Blackman) can be applied to time response sub-windows.
- New feature: Support of IQT files from Tektronix WCA330, WCA380 and H600.
- New feature: "With Memory" channel estimation. It uses information from the current and the three previous symbols for channel estimation. To be used only in case of analyzing noisy signals.

Version r1.0.5

- New feature: Supported HP VSA as a source device.
- New feature: Supported RSA 6114A as a source device, including new option 'Use pre-amp'.
- Fixed bug: Input TIQ files of arbitrary size supported (tested up to 20s).

Version r1.0.3

- Fixed bug: DBA crashed with IQT signals captured at a frequency over 1 GHz. This bug appeared in release r1.0.2.
- New feature: Option "Apply window" on impulse response subwindow, via context menu.
- Center Frequency is now passed to the RSA equipment with a precision of 6 decimal places in MHz, i.e. 1 Hz.

Version r1.0.2

- Fixed bug: Clock errors below -1.0 were not represented in 'Highlights' sub window.
- New feature: 'Ignore TPS info' in main configuration dialog, to prevent the application from showing a message when incorrect TPS info is detected.
- New feature: 'Move marker N here', in the context menu of a graph.
- New feature: Center Frequency is now retrieved from file info (only for IQT files) when analyzing a file.
- Improved color scale in MERgram, similar to that in the Tektronix RSA.
- Removed subwindow 'Signal Phase'.
- 'Save and & continue' is the default button in configuration dialog.
- The grid can be deactivated in all graphs.
- MER values are not averaged in 'Modulation Measurements' subwindow.
- When data is not being analyzed, a message appears in 'Ber measurements' sub-window.

Version r1.0.1

- Fixed bug: Disk file is now closed after checking file modification time.
- Fixed bug (critical): Chain reset is now correctly performed after a signal sync loss.
- New feature: For RSA operation, a longer capture time is allowed (limited to 500ms), using a temporary IQT file.
- New feature: TPS detection can be activated also in RSA operation.
- New feature: A single capture is allowed in RSA operation.
- New feature: Implemented option 'Get TPS first', to get a long first capture and then continue with shorter captures.
- New feature: Automatic mode, guard interval and bandwidth detection is allowed in RSA operation.
- External equipment must return an IDN of "TEKTRONIX,RSA3*" or "TEKTRONIX,WCA2*". Otherwise, a warning message appears on screen.
- Mode detection results are now stored in settings dialog for subsequent analyses.