RMS INSTRUMENTS
For Geophysical Exploration

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(D)AARC5XX Release Package 2026 – Summary – PRELIMINARY

Host FW:		DAARC500 **11030-05-A**	AARC510 **11031-04-A**	AARC52 **11122-04-A**	DAS52 **11164-02-A**
1	Real-time monitoring of *custom devices* (typically radar/laser altimeters) now observes user-selectable high and low thresholds. Color-coding identifies 'within thresholds' (green background), 'outside thresholds' (yellow), and 'no valid data' (red) conditions. [DAARC500: Appx. O; others: Appx. N]	●	●	●	●
2	User-selectable threshold parameters, for the improvement ratio and the norm of a calibration's solution/model, are now used to qualify the performance of operation in adaptive mode. The qualifying measure is also encoded in the background color of the ADAPT button. [Sec. 3.5.2.1]	●	●	●	
3	Full statistics are now provided for any retrieved RLSQ solution. [DAARC500: Appx. G] [Others: Appx. E]	●	●	●	
4	Introduced enhanced safety measures to protect the System Partition in embedded Flash. [Sec. 5.2.1]	●	●	●	●
5	Post-flight compensated output files now include GPS and FE-analog data, if present in the original data file. This ensures the format of the (binary) output file is always identical to that of the original file. [DAARC500: Sec.3.10.1; others: Sec. 3.9.1]	●	●	●	
6	Real-time output of high-passed compensated TF signals while adaptive mode is engaged.	●	●	●	
7	In addition to showing the *current* accumulation matrix (AM) indicator on the main dialog, the firmware now displays also the *next* AM. This is particularly relevant after 'loading' one or more AMs through the matrix management facilities. [Sec. 3.5.1.3]	●	●	●	

Front End FW:

RMS1877-06-A

a. In addition to doing so at power-up, the Front End now also monitors internal temperature at a critical test point post-power-up (at least 20 minutes after power-up, every time a run mode is started and at any other opportunity not interfering with real-time tasks). Measurements are checked against the specified operating range, taking into account normal internal heat build-up, and a unique warning is issued if out of range. The warning is reflected on the error indicator on the main dialog (top-right corner), as well as in the event-tags field included in all recorded and/or transmitted data packets.

   [Sec. 5.3.2]

(D)AARC5XX Support Software – Apr/2026

ExportDAARC

v4.2
- *ExportSerial and ExportEth*: Support protocols/interpretation for LR-D1-Pro radar altimeter.
- *ExportSerial*: Support 'Ag-Nav Line #' interpretation for ASC/BIN-protocol data.
- Cleanup and enhanced protection measures when handling file names.

SeeInDAARC

v2.61
- Adds threshold parameters (IR, norm) to qualify performance in adaptive mode (DAARC500, AARC510, AARC52).
- Adds parameters to define safe range of Custom Device readings (DAARC500, AARC510, AARC52).

Console-Mode Programs

BatchMerge.bat
v1.0 – Unchanged.

MergeDAARCg
v1.1 – More efficient/flexible termination mode.

ExportMag
v3.2 – More efficient/flexible termination mode.

ExportAnalog
v1.8 – More efficient/flexible termination mode.

ExportSerial
v3.1
- Updated for functional equivalence to ExportSerial page in ExportDAARC v4.2.
- More efficient/flexible termination mode.

ExportEth
v1.2
- Updated for functional equivalence to ExportEth page in ExportDAARC v4.2.
- More efficient/flexible termination mode.

MergeDAARC
v2.1 – More efficient/flexible termination mode.

ExportLog
v1.4 – More efficient/flexible termination mode.