BOXBORO
systems

January 2026

RibEye™ Multi-Point Deflection Measurement System
Software Release Notes – Version 9.0

New Features

1) Diadem file time units

In order to import RibEye Diadem files into an ASAM ODS database the channel header in the DAT file must have time units. In the previous RibEye software version the time channel does not specify the time units (always milli-seconds) as shown in the partial header below:

#BEGINCHANNELHEADER
200,time
210,EXPLICIT

Version 9.0 includes the time units as in the partial header shown below, and the time units can be set to either milli-seconds or seconds:

#BEGINCHANNELHEADER
200,time
202,ms
210,EXPLICIT

#BEGINCHANNELHEADER
200,time
202,S
210,EXPLICIT

The ini file now has a DiademTimeUnits section that can be used to set the time data to seconds or milliseconds.
If the DiademTimeUnits section is not found the program defaults to milliseconds.
If you have modified the RibEye_8_0.ini file for the previous version of the program, 8.0 or 8.1, you can copy the RibEye_8_0.ini file to the RibEye 9_0 program directory, and add the lines below to the bottom of the file if you wish to export Diadem data in seconds.

At the Bottom of RibEye_9_0.ini the DiademTimeUnits section is:
[DiademTimeUnits]
;use DiademReqTimeUnit = 1 for time in seconds
;use DiademReqTimeUnit = 0 for time in milli-seconds
DiademReqTimeUnit = 0

When version 9.0 reads in an existing Diadem file it will convert data that is in seconds back to milli-seconds.

2) Led Position Automatic Checking – for Second Generation WorldSID RibEye only

When you arm the 2nd Generation WorldSID RibEye it will check that all of the LED positions are within the error limits defined on the Auto Check screen, and it will warn you if the error limits are exceeded. This can be used to detect out-of-specs ribs, blocked LEDs, or LEDs that have come off of the ribs, or damaged LEDs
When you connect to a 2nd Generation WorldSID RibEye a new tab will appear – LED Position Auto Check.
When a dummy is certified in the ATD Lab, the ATD Lab Recorded Positions are stored in the RibEye, and read from the RibEye when you connect. The current positions are read from the RibEye when you click on the "Get Current Positions button". If there is an error code or the positions exceed the limits the bad positions will be highlighted in yellow. The Limits for Warning when Arming are stored in a new INI file on the PC. You can change the limits and save them by pressing the "Save Limits" button. This feature requires the RibEye firmware be updated to RE2_R0001.8. Contact Boxboro Systems or your Boxboro Systems representative for upgrading your firmware.
See the RibEye 9.0 Software Manual for more details about this feature.

3) Updated Run-Time engine
The installer for this program will install the latest version of the National Instruments CVI run-time engine for better performance on Windows 11.

Bug Fixes
1) When a previously filtered file is read in and re-exported, the re-exported data could be corrupted. This only appears to happen on some releases of Windows 11. If the corruption occurred, the re-exported data files would contain huge numbers, >65535, and would not plot in the RibEye software when read back in.

2) When data was exported as Relative data in Diadem format the calculated data channels, Length Change and IR Tracc estimates, could have a small error less than 0.01 mm. This was due to an indexing error and has been fixed.

3) When re-processing a WorldSID Raw Data File (.RDF or .RD2) and switching the impact side, if the Left side and Right side calibration dates were not the same, the program would not find the opposite side calibration file. Now the program will open up a file selection box and let you choose the correct file to use.

Installation Directory, Calibration files and INI file
The default installation directory (which can be changed by the user) for the RibEye 9.0 software will be:
C:\Program Files(x86)\RibEye 9_0
The installer will not overwrite previous versions of the RibEye program.
You must copy the WorldSID RibEye Calibration file(s) to the new RibEye installation directory
The calibration files can be copied from your older RibEye software installation directory, such as C:\Program Files(x86)\RibEye_8_1. If you have made changes to the default RibEye_8_0.ini file you can copy the ini file from the C:\Program Files(x86)\RibEye_8_1 directory to the new C:\Program Files(x86)\RibEye 9_0 directory