

RibEye™ Multi-Point Deflection Measurement System Software Release Notes – Version 8.1

New Features

1) For WorldSID Diadem and ISO MME output data formats a “Plot Name” for the data channels will be read from a user editable .CSV file: “WorldSID Channel Names for Plots.csv”

For a Diadem file the plot name is in section 201, example below. In previous versions 201 had the ISO codes as shown in line 200 below.

200,11SHRILEREWSDSX0

201,RibEye Left Rear Shoulder Rib Displacement X

For an ISO MME channel file the plot name is in the Customer channel code as shown below. In previous versions the Customer channel code was NOVALUE.

Name of the channel :11SHRILEREWSDSX0

Laboratory channel code :NOVALUE

Customer channel code :RibEye Left Rear Shoulder Rib Displacement X

Channel code :11SHRILEREWSDSX0

If the file “WorldSID Channel Names for Plots.csv” is not found, ISO codes will be used as in the previous versions of the RibEye software. The WorldSID channel names file must be in RibEye program directory. The RibEye 8.1 Installer will put the WorldSID Channel Names for Plots.csv file in the default or user selected RibEye program directory. The default RibEye program directory is: C:\Program Files(x86)\RibEye 8_1

2) The Trigger setting is currently stored in the RibEye output data files. The trigger setting codes are:

0 = opto trigger on rising edge

1 = opto trigger on falling edge

2 =RS485 trigger on rising edge (only some models use this)

3 = RS485 trigger on falling edge (only some models use this)

For this release, if the operator clicks on the manual TRIGGER button on the software screen, the program adds 4 to the trigger setting codes shown above to record that the trigger was done manually, and also maintains a record of what the hardware trigger was set to.

Changes / Bug Fixes

1) In previous versions of the RibEye software, the calculations 1D and 2D IR-Tracc outputs used the 2D IR-Tracc pivot point. For this release, the WorldSID IR -Tracc calculations have been updated to use the pivot point at the spine per the requirements of ISO 15830-3:2022, since the rib certification and injury data was based on the original 1D IR Tracc pivot point at the face of the spine.

2) This program supports the thorax geometry changes, new calibration files, Length Change and IR Tracc calculations for the WorldSID 05 Rev F design that is currently under development by NHTSA. The previous version supported the WorldSID 05 Rev E design, which was not put into production.

Installation Directory, Calibration files and INI file

The default installation directory (which can be changed by the user) for the RibEye 8.1 software will be:

C:\Program Files(x86)\RibEye 8_1

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_0. 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_0 directory to the new C:\Program Files(x86)\RibEye 8_1 directory