MIZ-21C SOFTWARE 1.2.2

Product Bulletin

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Apr 15th, 2021

MIZ-21C Software 1.2.2 Product Bulletin

Zetec just released *MIZ-21C Software 1.2.2*. This software version can be used on any MIZ-21C instrument that has operating system and drivers Full Flash Update (FFU) 1.1.1 or newer. Please contact Zetec Customer Service at CustomerService@zetec.com if you have FFU 1.0.9 or earlier. This product bulletin presents an overview of the new features and changes in this software version.

MIZ-21C Software 1.2.2 has three application modes depending on the MIZ-21C model:

- **MIZ-21C-SF Models**: Conductivity and Coating Thickness, Sub-Surface, and Surface Cracks.
- **MIZ-21C-DF Models**: Includes Bolt Holes.
- **MIZ-21C-ARRAY Models**: Includes Bolt Holes and Surface Array.

Purpose of MIZ-21C Software 1.2.2

MIZ-21C Software 1.2.2 is the standard upgrade for users of previous versions of MIZ-21C software. This software release includes several new features and improvements.
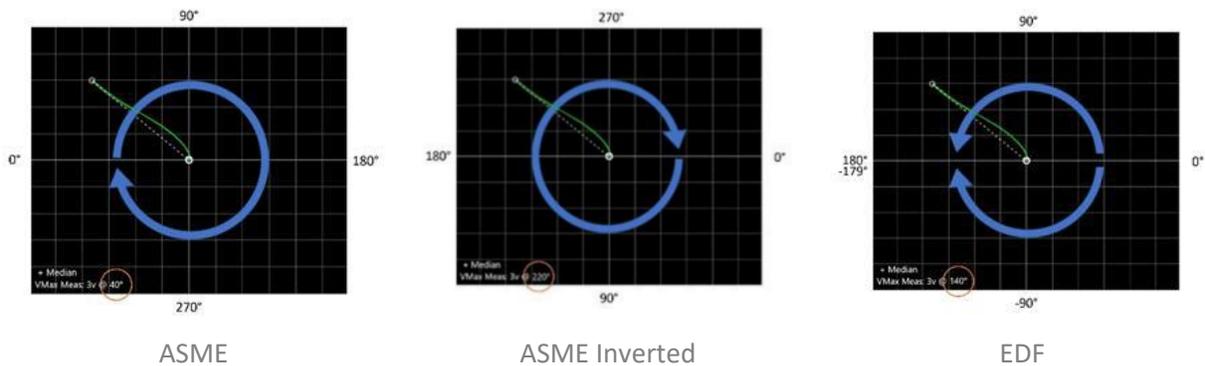
Zetec's hardware and software development process is performed according to a quality system that is certified ISO 9001-2015. With this certified software development process, Zetec guarantees that changes between earlier MIZ-21C Software releases and MIZ-21C Software 1.2.2 have no consequences on the sensitivity and the accuracy of the recorded data or results processed by the software.

New Features in MIZ-21C Software 1.2.2

The following are the new features in *MIZ-21C Software 1.2.2*:

New Angle Mode

The MIZ-21C now allows for phase orientation selection in the Tools Menu under Angle Mode. There are three options: ASME, ASME Inverted, and EDF. This sets the zero-degree position on the impedance plane and if angle measurements are on a 0-to-360-degree scale or 0 - ±180 degrees scale. The default is the ASME method which is clockwise with zero degrees on the left. ASME Inverted is clockwise with the zero degrees on the right. EDF has zero degrees on the right with the upper half positive and the lower half negative. The following pictures illustrate the different modes. Note the measured angle measurement in the blue circle in each picture.

| ASME | ASME Inverted | EDF |

Adjust Rotation in 0.1 Degree Increments

The phase can now be controlled in 0.1 degree increments. This has created a change in the button operations. A single up/down click goes by 0.1 degrees instead of 1 degree. A single left/right click goes by 1 degree instead of 10 degrees. If the button is held down it will remain as going by whole degrees.

There will be a new Tools Menu item called Angle Mode to choose if your degree increments are 1 vs 0.1 degrees. If selected as 0.1 degrees, then all labels and calculations will include 0.1 degree precision. When selected to 1 degree increments, then it will go back to single digit precision.

Added Rotating Scanner Options

The following Olympus scanners are now supported: MiniMite, RA 2000, and Spitfire 2000.

There is also support for the Rohmann MR3 and Ether Mercury ARD002 scanners.

Note that the Olympus Spitfire 2000 scanner is only supported in the MIZ-21C Gen2 sealed hardware version. It is not supported in the MIZ-21C Gen1 non-sealed hardware version.

Downloading and Installing MIZ-21C Software 1.2.2

For this or other MIZ-21C Software versions, please visit MIZ-21C Download at www.zetec.com

To upgrade the MIZ-21C software from **1.0.9 or earlier** to the new 1.2.2 version, the MIZ-21C must be returned to Zetec. Please contact Zetec Customer Service at CustomerService@zetec.com for a return authorization number.

Instructions (choose the option applicable to you):

(OPTION 1) To upgrade the MIZ-21C Gen2 sealed hardware to the new 1.2.2 version:

- On a USB drive create a folder "MIZ-21C" with subfolder "Updates": \MIZ-21C\Updates\
- Copy the downloaded zip files (MIZ-21C.Application.1.2.2.17.install and MIZ-21C.System.1.2.2.17.install) into the "Updates" folder on the USB drive
- Insert the USB drive into the MIZ-21C and go to Tools > System Updates and click Update Software and Firmware
- Select from the list: MIZ-21C.System.1.2.2.17.install and click OK, then wait for shutdown
- The 'Gears' phase will begin, then wait for shutdown
- From Version Manager, select 'Install' and select from the list: MIZ-21C.Application.1.2.2.17.install
- Select 'Install' and after 15 seconds it will complete with the 'Install succeeded' message
- Select 'Open MIZ-21C' and the Applications menu will open (Note: if the black Zetec logo persists for more than 2 minutes, then reboot the instrument)

(OPTION 2) To upgrade the MIZ-21C Gen1 non-sealed hardware to the new 1.2.2 version:

- On a USB drive create a folder "MIZ-21C" with subfolder "Updates": \MIZ-21C\Updates\
- Copy the downloaded zip files (MIZ-21C.Application.1.2.2.17.install and MIZ-21C.System.1.2.2.17.install) into the "Updates" folder on the USB drive
- Insert the USB drive into the MIZ-21C and go to Tools > System Updates and click Update Software and Firmware
- Select from the list: MIZ-21C.System.1.2.2.17.install and click OK, then wait for shutdown (verify by noting that the fans are off)
- Press the Power Button to turn the instrument back on
- The 'Gears' phase will begin, then wait for shutdown (verify by noting that the fans are off)
- Press the Power Button to turn the instrument back on
- Wait for a few minutes, then one of two things will happen on restart:
- – The application will boot to the normal Applications menu, WAIT 5 seconds for the screen to change to the Version Manager
- – OR during the boot cycle the user will have a 5 second window to select between 'Launch' or 'Manage Versions', click Manage Versions to go to the Version Manager
- From Version Manager, select 'Install' and select from the list: MIZ-21C.Application.1.2.2.17.install
- Select 'Install' and after 15 seconds it will complete with the 'Install succeeded' message
- Select 'Open MIZ-21C' and the Applications menu will open (Note: if the black Zetec logo persists for more than 2 minutes, then reboot the instrument)