mirus™ Harvest Data Collection Software 4.6.9 Release Notes

Supported Personal Computers Running the Windows OS

Component	Minimum Requirements
Computer (laptop or tablet)	2.0 GHz Quad Core
Memory	8 GB or more recommended
Hard disk	500 MB available disk space
Display	1280 x 800 or higher resolution display
Operating system	Windows 11 64-bit OS
Video playback	Windows Media Player version 11 or higher

Installation Instructions

1. Install the latest Windows updates prior to installing the latest version of Mirus.
2. Close all other running applications.
3. Copy Mirus 4.6.9 to the tablet or laptop PC.
4. Open Mirus and follow the installation prompts.

Required GrainGage Firmware

- Version 7.58.2

Supported Plugins

- Alvo Field Applicator version 2.1.4
- CAN-D version 1.1.1
- Spargo Cone Planter version 1.2.0
- Generic Harvest System (GHS) version 4.6.9
- GNSS version 2.1.1
- H3 GrainGage version 4.6.9
- NonStop version 1.0.5
- Oxbo version 2.1.0-dev. 104
- Polytech NIR version 2.0.1-release.3
- Zebra version 1.0.14

Updates

All GrainGages Models

- Improved the CAN serial port performance diagnostics and packet processing efficiency. (MIR-4681)
- Added the ability to hide the countdown timer on the **Start/Cycle/Countdown/Go** button on the Harvest screen. (MIR-4626)
- Added calibration data to the exported harvest data. (MIR-4628)
- Shortened the Close and Open transition times for unnamed actuators to 1 millisecond. (MIR-4640)

H3 GrainGage

- Added SCiO debug logging. (MIR-4603 & MIR-4598)
- Removed the registration requirement for H3 GrainGage plugins. (MIR-4632)

Firmware

- Analog module—Enabled retrieval of EM sensor information, such as serial number and calibration data, via CANopen SDO. (MIR-4643, MIR-4654, MIR-4653)
- Analog module—Added grain type discovery SDO to allow querying of supported grain types for moisture calibrations. (MIR-4643, MIR-4654, MIR-4653)
- Analog module—Improved canola moisture algorithm with enhanced temperature compensation for more accurate readings. (MIR-4772)
- Actuator module—Added digital input frequency counting capability to support frequency-based measurement devices on actuator modules. Frequency values are now transmitted directly via CAN communication.
- Actuator module—Added ability to configure digital input counting mode via CANopen communication for flexible sensor integration.

Fixes

All GrainGage Models

- Prevented CAN communication error messages during data collection. (MIR-4678)
- Resolved command timeout errors due to lag in some environments. (MIR-4681)
- Fixed an issue that caused quad view customizations to not persist after closing the software. (MIR-4614)
- Added EM sensor serial number to the backup log. (MIR-4643)
- Resolved an issue that could block map deletion. (MIR-4661)

H2 Twin GrainGage

- Fixed conditional action for the Strip and Plot modes. (MIR-4635)

Generic Harvest System

- Fixed weight display inconsistencies in the double cotton weigh systems. (GHM-104)
- Improved Harvest cycle time and fixed an error that caused extra seconds while cycling. (MIR-4608 & MIR-4620)

CAN-D

- Fixed an issue where stale plot data incorrectly displayed in the Harvest screen's Info view. (MIR-4642)

H3 GrainGage

- Eliminated unneeded moisture outlier errors on the SCiO NIR flush cycles. (MIR-4675)
- Updated SCiO Plot ID to use the physical plot location. (MIR-4671)

Firmware

- Analog module—Fixed subcycle aggregation for minimum weight validation to prevent invalid subcycles from contributing data to plot totals. (MIR-4667, MIR-4655)
- Actuator module—Fixed device instability during startup and first connection when digital inputs at high frequency caused unexpected behavior. Digital input processing is now disabled during startup and enabled only when the module connects to the DSP. (HYFA-259, HYFA-273)
- Actuator module—Corrected digital input pin-to-count mapping to match logical pin ordering. (HYFA-259, HYFA-273)
- General—Fixed potential lockup during strip harvest mode with actuation from conditional actions. Improved timeout handling for flush operations to prevent infinite waits. (MIR-4577)

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