

Release notes - Display Software Version - LTS

28 Sep 2023

[Download version 3.27.8 - Ti5/Ti7](#)

[Download version 3.27.8 - Ti10](#)

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To learn how to update the software version from your display, use [this link](#)

Highlights

This is our newest Long Term Support software version! We are delighted to share the newest features with you. It is strongly recommended to use LTS versions for a more reliable operation. Updating it when reaching its end of life is also a good practice especially for applications that are connected to our cloud services.

New Developments

New Products and Features

- **Remote operation**

New feature for the **Remote Access**.

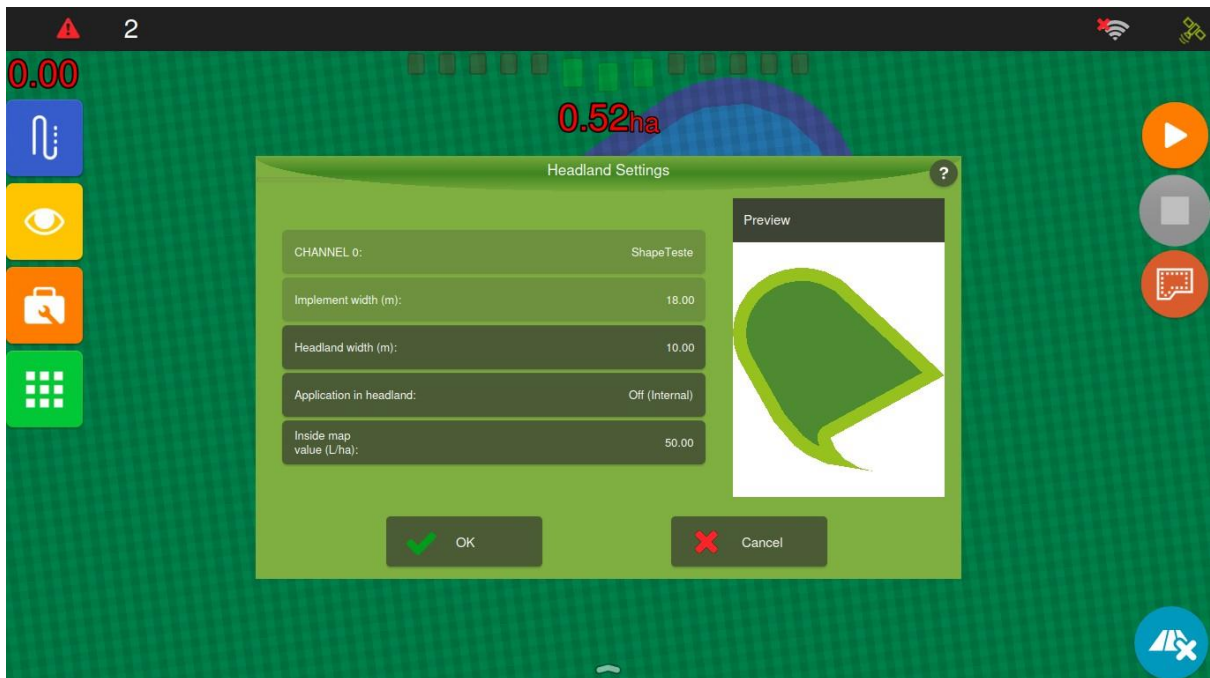
It is now possible to operate the display remotely. When accessing the display, you can click on the display screen, and it will work just like when using the display's touchscreen. For more information, contact our support team.

- **Headland settings**

Available when using ISOBUS TC.

Feature to reserve the field headland area for manoeuvring while working in the middle and applying on the headland afterwards.

This feature will be available for every implement in a future version



- **Split screen**

For Ti10 only.

It is now possible to split the Ti10 screen to show the operation map with VT and TC. Also show the machine monitoring screen at the same time as the map screen,

Contact our support for more information on how to enable this feature.

There is a significant limitation, part of the screen stays black, unused. It will be improved in the future.

New Improvements

- **Auto steering**

- Supporting more types of Tracked Tractors
Contact Hexagon's support for more information.


- Improved performance reversing


It is necessary to update the auto steering driver firmware to use it.

It still controls the position of the rear axle to the guide. Therefore, this improvement is only relevant for operation with mounted implements.

- Support for 24 V power to the Track Controller

- **Global**

- TerraStar faster convergence time and improved reliability - (3.27.8) 
FW 7.08.15 available for OEM7500 receivers - [more info](#). The GNSS receiver must be updated to used for those improvements.

- TerraStar subscription end alarms and information on GNSS screens - (3.27.8) 
3 types of notification: 1 month before, 1 week and after the subscription is ended.

- NovAtel Smart7 integration
Configure Smart7 antennas using the display interface.

- You can now use space when typing the job sections details and vehicle name

- Improved GNSS speed information, causing significant improvement on the rate control

- NMEA Raw: New NMEA output mode

Now it's possible to send the NMEA frames directly from the GNSS receptor.

It is aimed to receivers that must have minimum latency and doesn't need filtered frames.

- Better experience for RTK users

There are new alarms, new information on the GNSS status screen and improved settings for RTK users.

- ♦ **Rate control**
 - Enhanced calculation of the vehicle speed, directly affecting the product rate control with very significant accuracy improvements
- ♦ **Section cutting**
 - Improved performance right after maneuvering
- ♦ **ISOBUS VT and TC**
 - Improved operation for implements without rate control
Now, it is possible to control the section of ISOBUS implements that do not have rate control.
 - Added option to enable and disable ISOBUS VT
Useful for clients that may switch between ISOBUS and non ISOBUS implements using the same display.
 - The simulated Tractor ECU, TECU, now reports the tractor speed as 0 when the speed is lower than the minimum speed set
 - Automatically grouping sections buttons if they don't fit on the screen
For more information on the rules how the sections are split in the groups, please read the documentation available at our [wiki](#). *Document for Hexagon's employees access only.*
- ♦ **Fertilizer**
 - Configurable minimum tank level behaviour. It is possible to configure if the operation is suspended or not when reaching the minimum tank level.
- ♦ **Sprayer**
 - Created configurable critical low level tank alarm. It can suspend the operation automatically.
 - Manual operation enables rate actuator control even with all sections closed This is meant to be used for refueling the sprayer tank and for test purposes.
- ♦ **Planting control**
 - Support to implements with more than 26 lines per segment

Bug Fixes

- ♦ **Global**
 - Fix speed estimation - (3.27.7)
Occasionally, when using the speed filter and OEMStar GNSS receiver, the GNSS speed estimation was wrong up to 30%. It is highly recommended for all users with previous versions to not use the speed filter or update to this software version.
 - Fixed stability issue when creating perimeters the screen could freeze - (3.27.7)
 - Stability improvements using NMEA output
 - RTK Assist working normally
 - Improved system general performance and stability improvements
- ♦ **Auto steering**
 - Fixed auto steering max alignment feature
The max alignment difference angle is a feature to avoid aggressive movements at the steering wheel. This wasn't working properly in previous versions.
 - Fixed Steer ready PVED-CL configuration screen
Some texts were being cut when using Portuguese or Spanish languages.
- ♦ **Ti10**

- Bug fixes in Ti10 CAN bus communication
There were some cases where Ti10 wouldn't communicate with other devices on the CAN bus.
This may impact Ti5 and Ti7 as well.


- ◆ **Sprayer**

- Major stability improvements
Fixed issue with section actuation in unexpected times and irresponsive commands on calibration and test screens
- Minor fixes to the calibration and test screen
- Fix issue with pump button on operation screen - (3.27.7)

- ◆ **Fertilizer**

- With the ECU ATCD4, the spinners control could stop
After some time trying to reach the setpoint, the control output would set 0.
A FW update of the ATCD4 must be performed for the fix.
- Fixed issues with the prescription rate shown on the map screen
It could show information from other points from the boom read from the variable rate boom. Now it always shows the prescribed rate sent to the controller.
- Fixed issue when using multiple ECUs - (3.27.7)

- ◆ **Remote Access**

- Requesting user permission for Remote Operation - (3.27.8) 
From January 2024, the Remote Operation will be blocked from older versions.

Future Developments

We should also release a new patch, 3.27.9 with fixes and minor improvements

There are some other exciting new features coming to the newer versions. Let us know if you would like to have early access to:

1. Support to steering valves DANFOSS PVED-CLS and PVES
2. Auto tuning for Fertilization Control
3. Read guidance lines from ISOBUS taskdata

Technical Information

Known issues

- Position jumps when reversing and with GNSS antenna not centralized on vehicle
- The system may crash when removing a flash drive in use

Any question? Contact our support team!

- [Hexagon Support](#)