

Simulator function



You can use the Pilot application without a controller or internet connection. Use it for training, demonstrations, etc.

Simulator mode can be used for 3D/2D machine guidance.

The usage is the same as the normal mode (controller connection). Normal mode settings and simulator mode settings are separate.

Main Constraints

- Payload meters are not available
- Geo-fencing is not available
- Some functions and menus are not available or not displayed
- Three-screen display is not an option
- Project files and buckets cannot be downloaded from the server

For more information, see 2 Simulator Limitations.

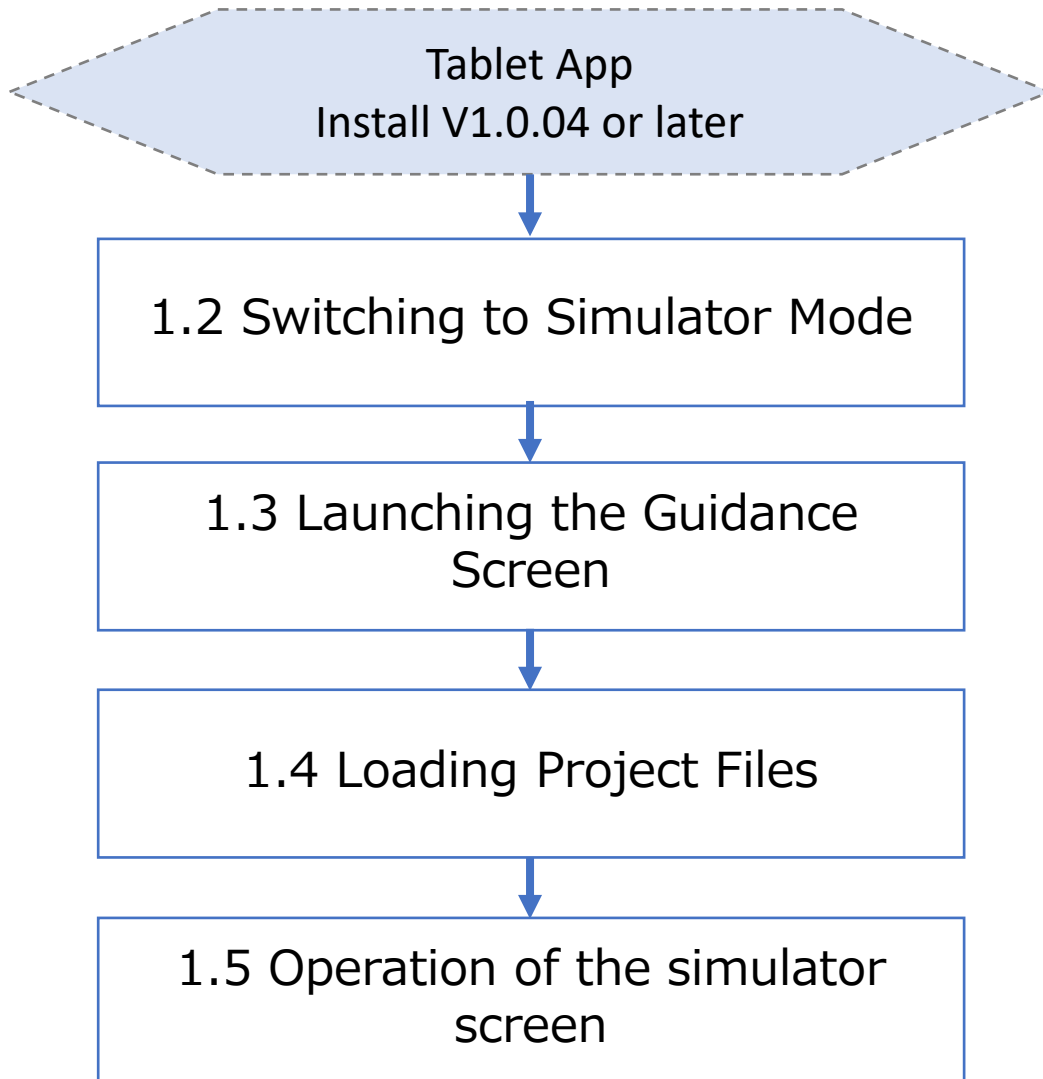
01

Chapter

Switching to and operating the simulator

1.1 Usage Flow

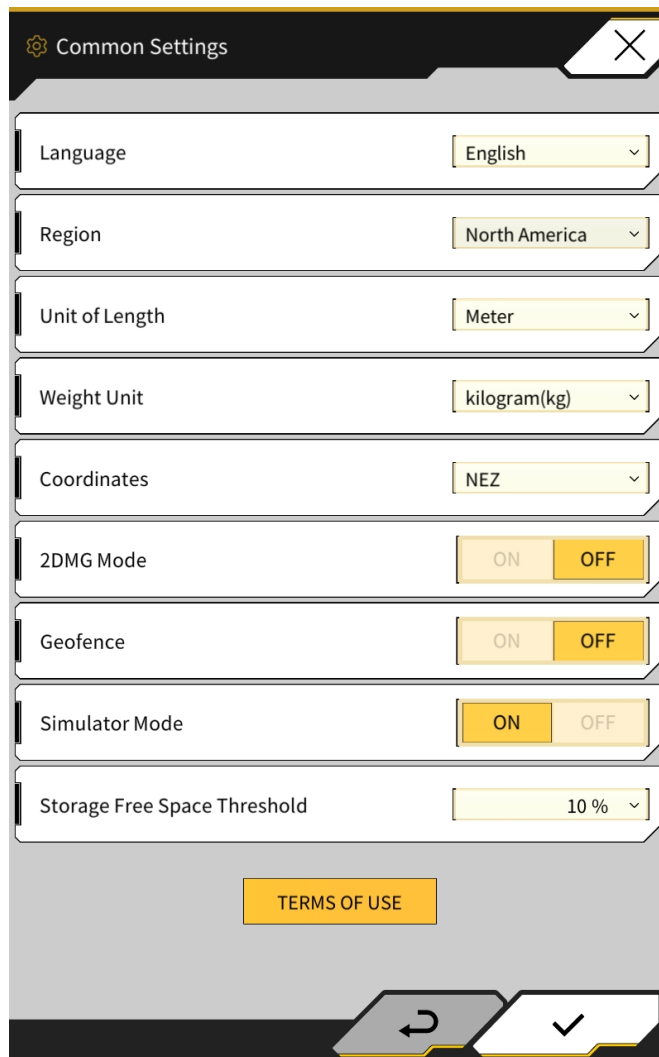
The simulator function can be used in the following flow.



1.2 Switching to simulator mode

1. After starting the application, tap (⚙️) to display Common settings.
2. Simulator mode switched to “ON”

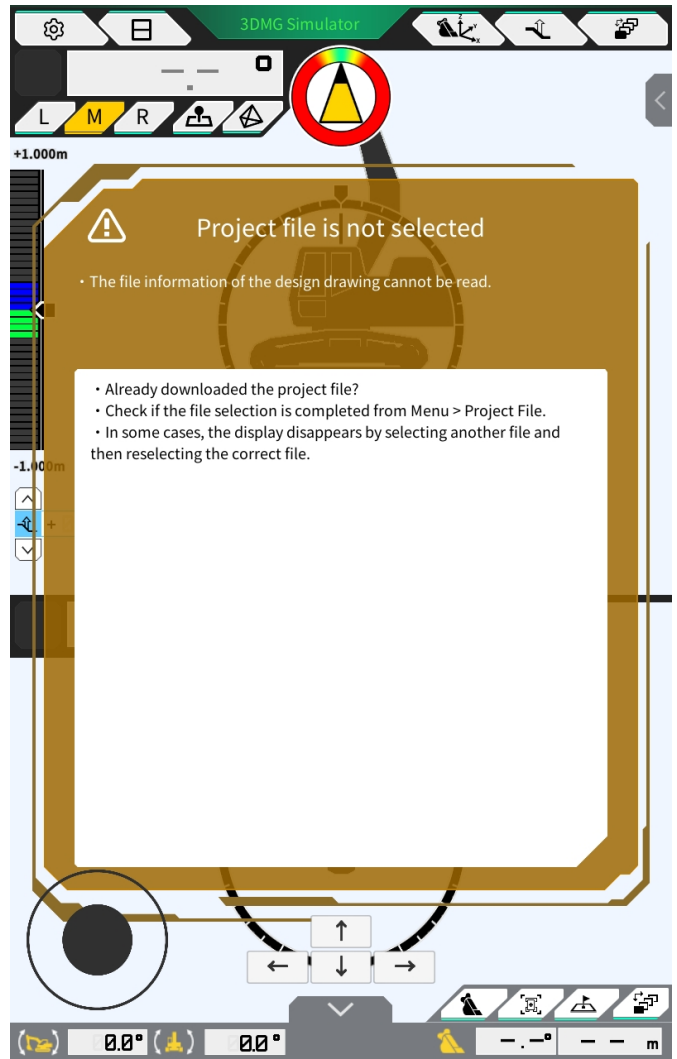
※ Simulator mode does not yet support geofences.
(v1.0.04)




1.3 Launching the Guidance Screen



1. Only “Machine Guidance” is displayed on the application startup screen
 2. Tap “Machine Guidance”
 3. “Project file not selected” is displayed.
- ※ If a project file has already been set up, design data will be displayed.

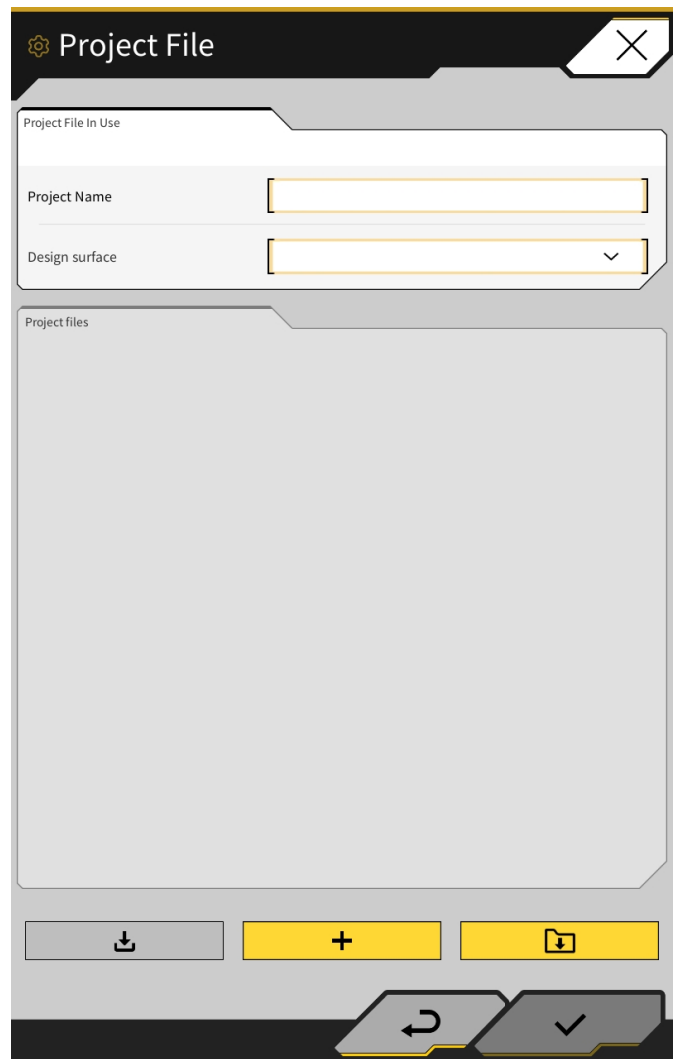
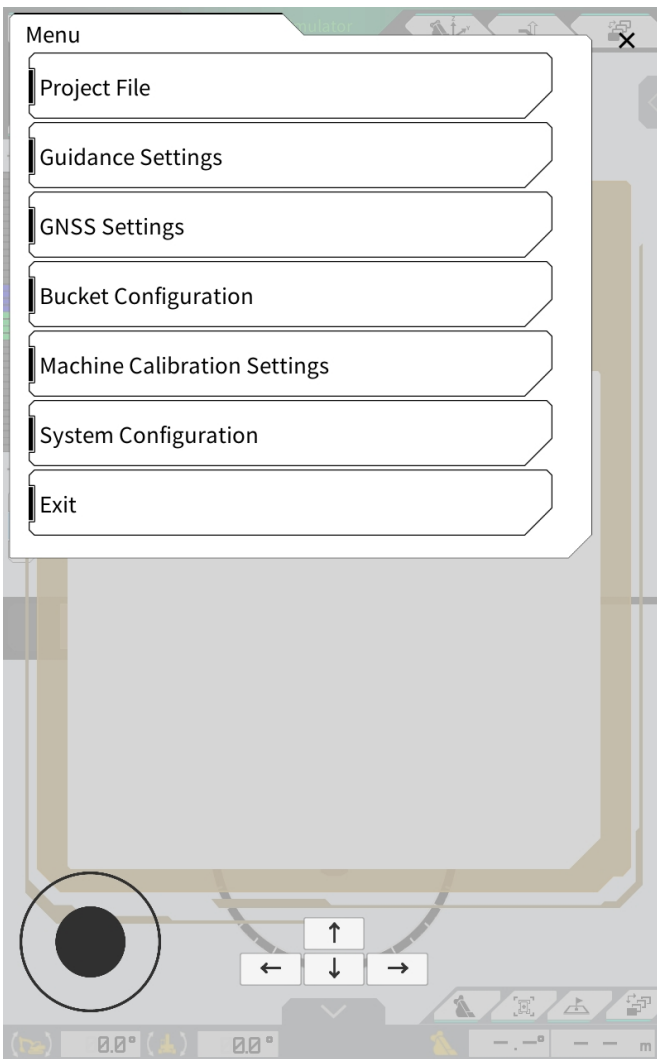


1.4 Loading Project Files

1. Tap “Menu” > “Project File”
2. Tap  to select the project file (.rpz) in the tablet device

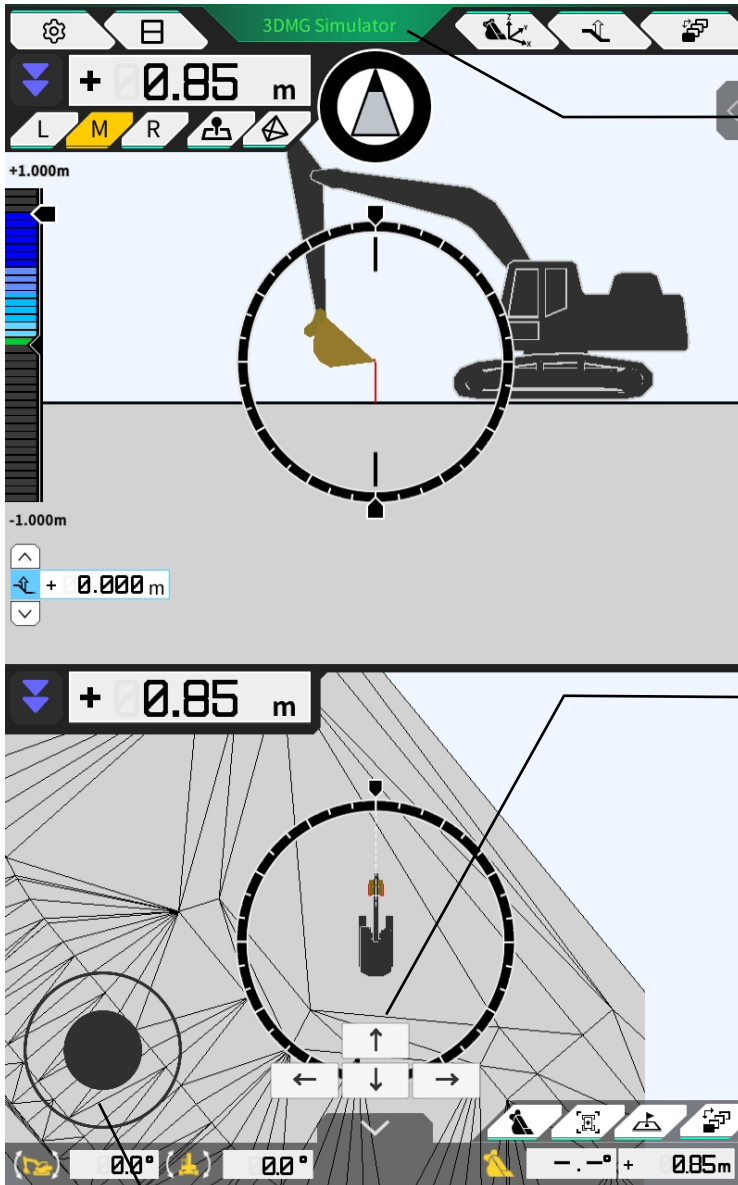
⊗ The project file is managed separately from the project file in normal mode.

⊗ Creating a project file is the same as in normal mode.



1.5 Operation of the simulator screen

The work equipment (arm, boom, bucket) repeats the fixed operation.



■ "3DMG Simulator" fixed display

■ Moving and rotating machine.



Move in the direction of the arrow



Rotate in the direction of the arrow

■ Freely moves machine like a joystick

02

Chapter

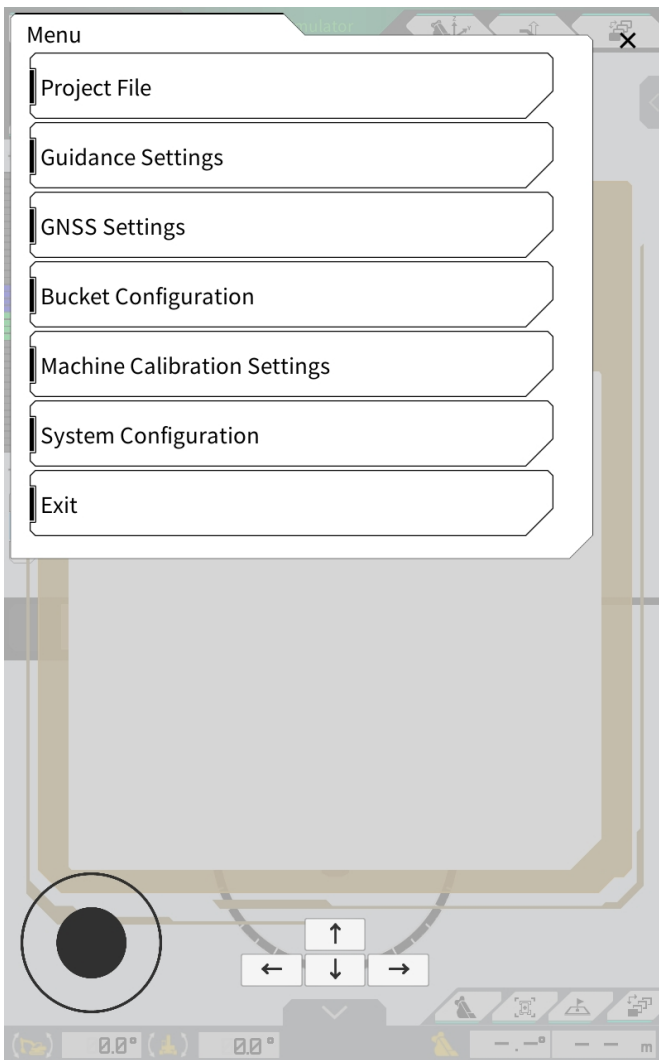
Simulator limitations (as of v1.0.04)

2.1 Simulator Limitations

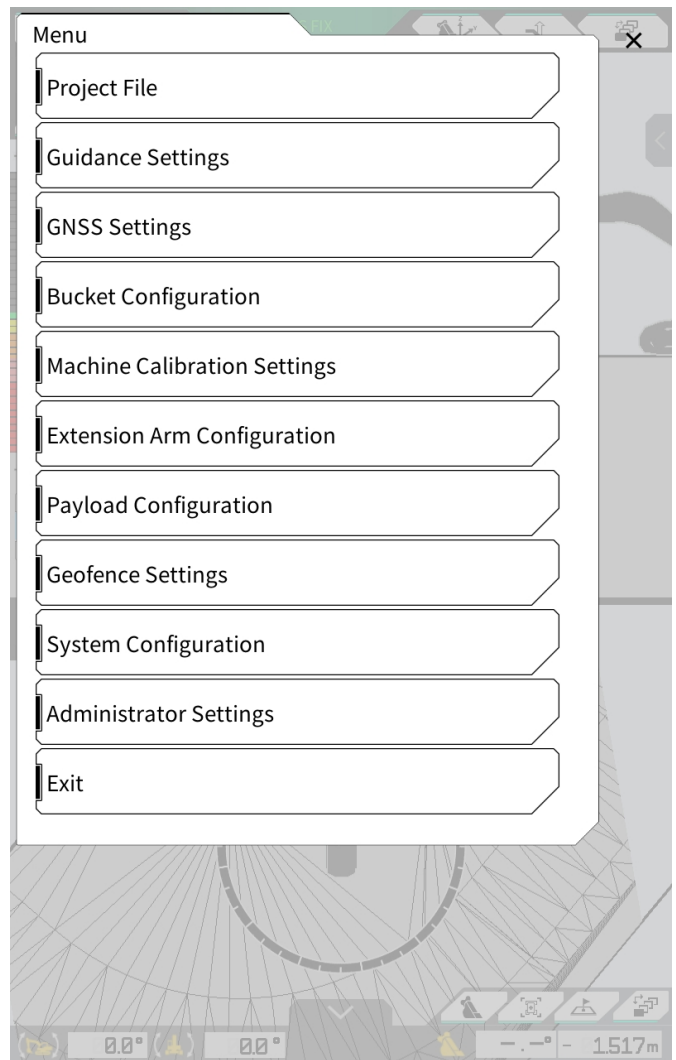
“Extension Arm Configuration” “Payload Configuration” “Geofence Settings” and “Administrator Settings” are not available in the simulator.

In addition, there are limitations on each function.

Simulator mode menu



Normal mode menu



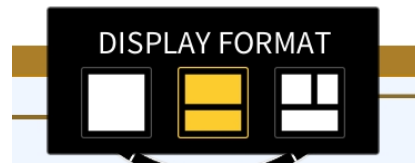
2.2 Guidance Screen Limitations

- The position displayed by the machine is different from the actual position.
- Since it is not connected to the controller, error displays that assume a connection from the controller, such as GNSS, are not displayed.
- Three-screen display is not supported.
- The heat map is initialized when the simulator function is disabled.

Simulator mode



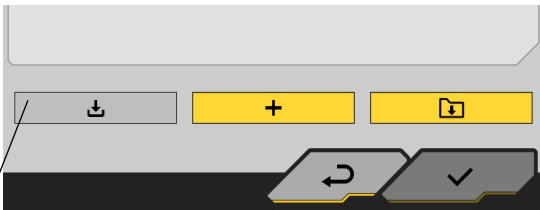
Normal mode



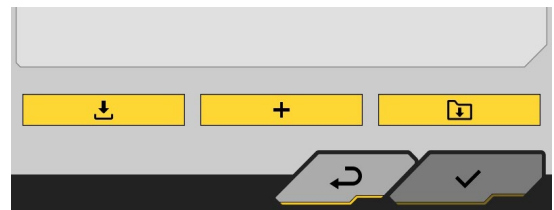
2.3 Project File Limitations

- Project files cannot be downloaded from the server.
- Geofences cannot be created.
- Designs cannot be created from linework.
- The latest projection list cannot be downloaded.
- Projects created in simulator mode can only be used in simulator mode; projects in normal mode are not synchronized.
- The update button for control point editing is not available.

Simulator mode



Normal mode

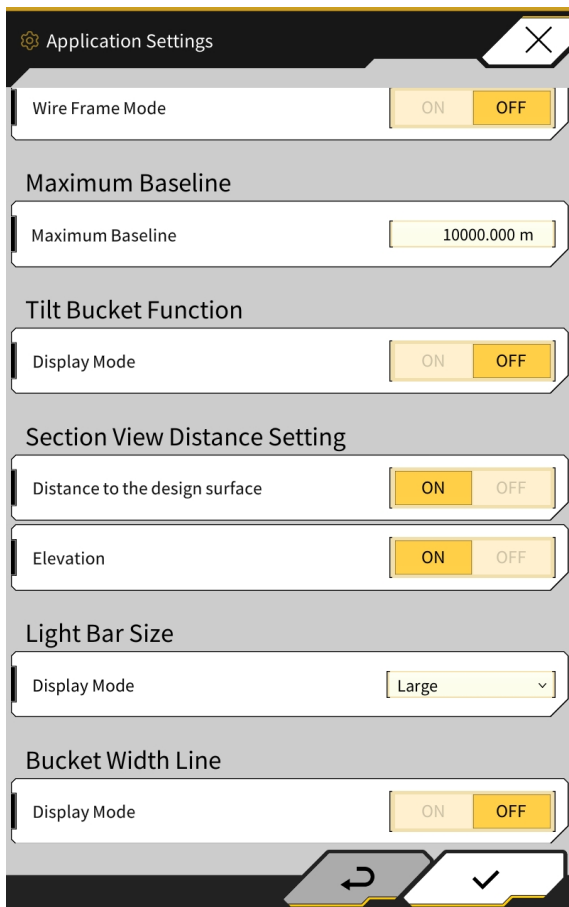


- The DL button from the server cannot be pressed

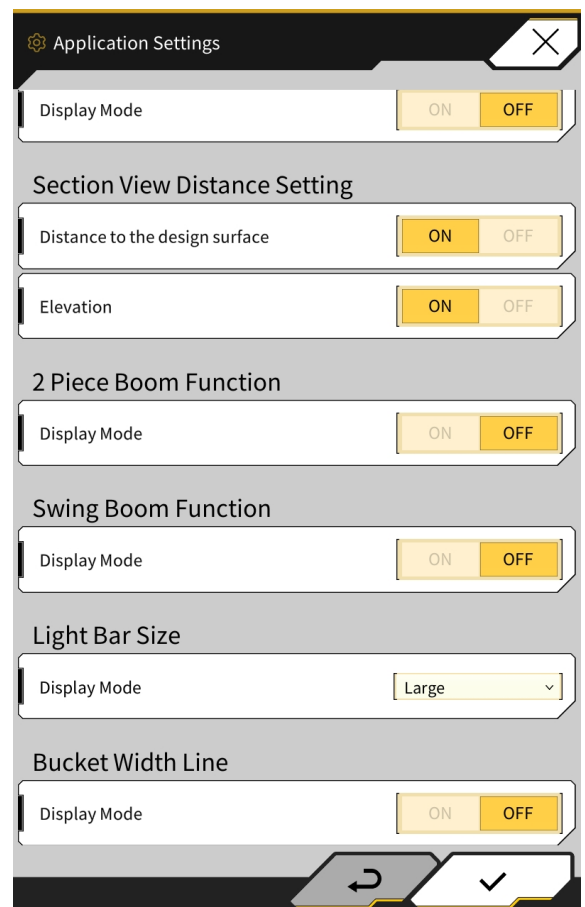
2.4 Guidance Settings Limitations

- Guidance settings in the simulator mode are not synchronized with those in the normal mode.
- Settings related to the following functions cannot be made in "Application Settings".
 - Extension Arm Function
 - 2 Piece Boom Function
 - Swing Boom Function
 - Geofence

Simulator mode



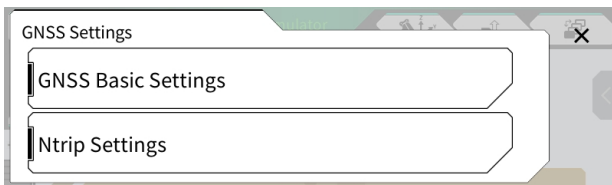
Normal mode



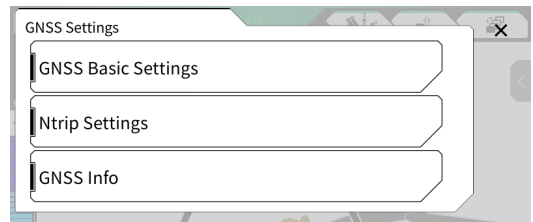
2.5 GNSS Settings Limitations

- “GNSS Info” is not available.
- “GNSS Basic Settings” is fixed and cannot be edited.
- Soft reset and Hard reset are not available.
- “Ntrip Settings” is not available and cannot be edited.

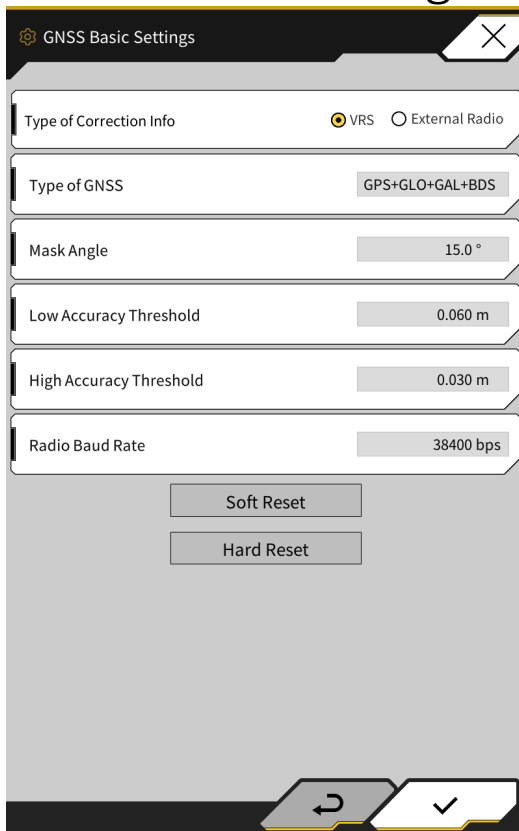
Simulator mode menu



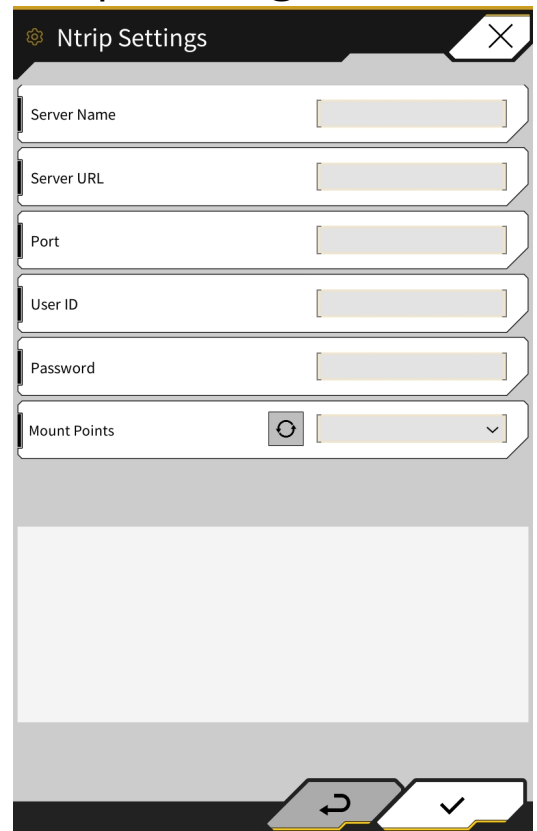
Normal mode menu



GNSS Basic Settings

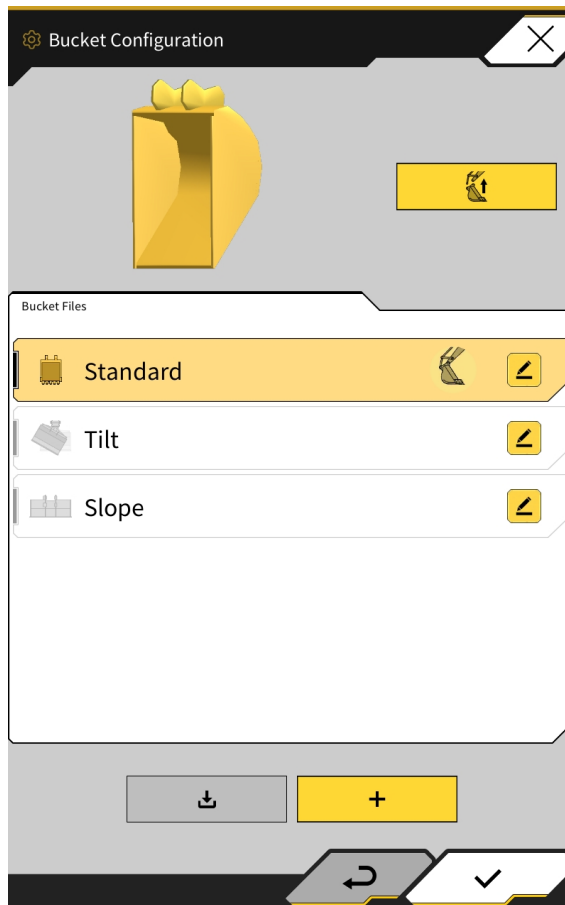


Ntrip Settings



2.6 Bucket Settings Limitations

- The following three buckets are already registered by default: Standard is installed.
 - Standard
 - Slope
 - Tilt
- It is saved as a simulator mode bucket and is not synchronized with the normal mode bucket.
- Bucket files cannot be downloaded from the server.
- The Update button on the Bucket Calibration screen is not available.



2.7 Machine Calibration Settings Limitations

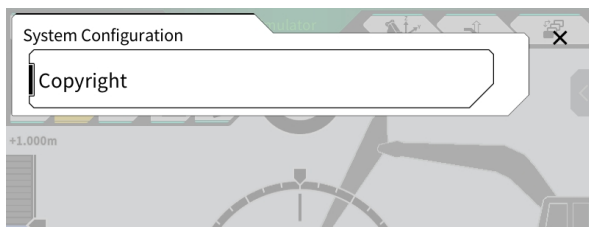


- "Position Posture Info" is not available.
- The "Update" button on the calibration screen is not available.
- Two-piece boom and swing boom functions are not available.

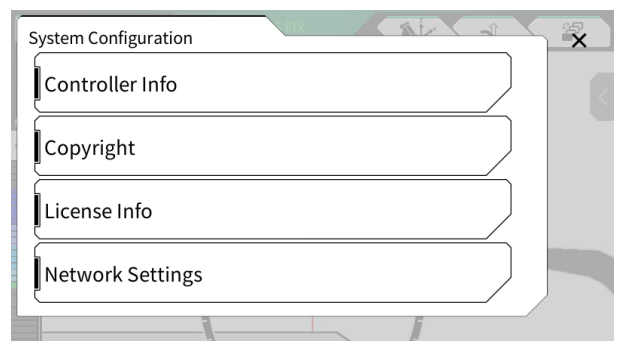
2.8 System Configuration Limitations

- “Controller Info” “License Info” and “Network Settings” are not available.

Simulator mode menu



Nomal mode menu



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