



Introduction

This document describes the changes introduced with the new software version.

- **Product:** TD50
- **Software version:** 22.9

This software controls all functionality in the TD50 system.

Do I need to upgrade?

This is an important update. The improved functionality will add value to your installation.

We recommend that all users update their software.

Software changes

This software update solves a number of software bugs that have been reported by our users, or detected during our own product testing.

The following specific changes have been made.

General changes and improvements

- The whole TD50 user interface has been renovated to offer the same usability as the software of the Kongsberg Maritime products compatible with the system.
- The date and time read-out has been moved from the topbar to the bottom bar. Additionally, the bottom bar presents the current colour scale of the presentation.
- A new **Messages** function has been added to the topbar. When a new message is issued by the TD50 system, **Messages** on the top bar will flash.
- The **Active beam group** function is now located on the topbar.
- The **Apply to all** and **Apply to source** functions in all dialog boxes have been removed. Several

parameters in the TD50 will by default only be applied to the active beam group.

- The functions in the TD50 menu system have been rearranged in five menus: Main menu, Display menu, Clip menu, Terrain menu and Setup menu. There are new functions in these menus.
- **Changes in the Main menu:**
 - The **User settings** function newly added to the **Main** menu allows you to save the current operational parameters and choose previously saved or factory user settings. This function also replaces the old **Restore Default Settings** function in the **Setup** menu.
 - The **View** function makes it possible to choose from which direction you want to see the vessel on your presentation.
 - The **Sv Max** function has been removed and replaced with the **Sv Range** function. By means of this function you can choose the dynamic range of the echoes received from the *active beam group*.
 - The **ADCP Views** and **Velocity Range** functions have been introduced to help you control the ADCP data received from the EK80 system.
- **Changes in the Display menu:**
 - The **Visual Objects** function provides a set of buttons that controls what is shown in the TD50 presentation. You can select the elements that appear on your presentation depending on your preferences.
 - The **Data History** function has been replaced with the **History** function. The **History** function offers five different levels from which you can choose to select how much of the historical data will be displayed on the presentation: Minimum, Low, Medium, High and Maximum.

The specific amount for each level depends on the system set up as *active beam group*.

- The **Resample** function has been replaced with the **Resolution** function. The function controls the level of definition in the TD50 presentation.
- You can now control some general settings of the menu, the top bar and the bottom bar by means of the new **Display Options** function.
- You can adjust the brightness of the screen to your preferences with the new **Screen Brightness** function.
- The **Colour Setup** allows you to choose between three different user interface palettes. You can choose between Day White, Day Black and Night to make the software user interface match your preferences.
- **Changes in the Clip menu:**
 - The main functions in the **Clip** menu remain the same. However, some of these functions have been renamed. The availability of some of the buttons depends on the system set up as *active beam group*.
 - The **Clip Settings** button has been removed.
- **New Terrain menu:**
 - The new **Terrain** menu replaces the old **Visibility** menu. It includes several functions to upload and show terrain models, and to control the appearance of the ocean in the presentation.
- **Changes in the Setup menu:**
 - The **Num Surfaces** button has been renamed to **Surfaces**.
 - The **Connections** dialog box has been replaced with the **Server discovery** dialog box. The new **Server discovery** dialog box provides a more visual way of connecting source systems to the TD50 software.
 - The **Advanced settings** function has been removed.

Documentation issues solved

The context-sensitive help and the end-user documentation is now updated with the latest software release.

Known issues

Certain software issues related to the Simrad TD50 are known. Issues in the TD50 software will be corrected in future upgrades.

- When you are replaying files with ADCP data from the EK80 system, and you want to stop the replay and change to another dataset with ADCP data without disconnecting the TD50 software, the system will remember the old beam configuration. This issue can potentially cause problems when turning off the ADCP data and changing the ADCP beam group configuration. Make sure that you stop the TD50 software before changing the dataset with ADCP data that you want to replay.

Validation against other products

This software version is tested with the following applications and software versions:

- MS70 sw version 1.4.2
- ME70 sw version 1.4.2
- EK80 sw version 21.15.2

Installing the TD50 operating software

If the computer is purchased from Kongsberg Maritime, the operational software is pre-installed and ready for use. If you want to use your own computer, you must install the software yourself.

Prerequisites

The software installation file is provided in a USB flash drive. You can also download the software installation file from Simrad website.

- www.kongsberg.com/td50

Note

Make sure that you have administrative rights on the computer. You need this to install the software. If you purchased your own computer, you must make sure that it meets the technical requirements for use with the TD50 system. Do this before you install the software.

Context

A software license is not required to operate the TD50.

Procedure

- 1 Turn on the computer.
- 2 Switch off any firewall applications.
- 3 Insert the software media.

The software installation file is provided in a USB flash drive. You can also download the software installation file from Simrad website.
- 4 Use a file manager application on the computer to access the software files.
- 5 Double-click `Setup.exe` to start the installation.
- 6 Allow the installation wizard to run. Follow the instructions provided.

We recommend that you install the TD50 in the default folder suggested by the wizard.

In the last dialog box you are permitted to remove old settings. Since this is your first installation of the software, you can disregard this option.

- 7 Once the software installation has been completed, double-click the TD50 icon on the desktop to start the program.
- 8 Depending on your operating system parameters, certain dialog boxes may open.
 - a The Windows® Firewall may open a dialog box requesting information about the network. Select **Public**, and then select **Allow access**.
 - b The operating system may also open other dialog boxes to verify that the TD50 software can run on the computer. You must permit this.

Upgrading the TD50 operating software

When a new software version is released for the TD50 system it must be installed on your computer.

Prerequisites

In order to upgrade the software you need the relevant file set on a suitable media. The software installation file is provided in a USB flash drive. You can also download the software installation file from Simrad website.

- www.kongsberg.com/td50

It is assumed that you are familiar with the Microsoft® operating system utilities for file handling.

Context

The new version of the software will automatically replace the old version. A software license is not required to operate the TD50.

Procedure

- 1 Turn on the computer.
- 2 Switch off any firewall applications.
- 3 Insert the software media.

The software installation file is provided in a USB flash drive. You can also download the software installation file from Simrad website.
- 4 Use a file manager application on the computer to access the software files.
- 5 Double-click `Setup.exe` to start the installation.
- 6 Allow the installation wizard to run. Follow the instructions provided.

We recommend that you install the TD50 in the default folder suggested by the wizard.

In the last dialog box you are permitted to remove old settings. Read the options carefully. Do not remove any existing settings unless this is your intention.

- 7 Once the software installation has been completed, double-click the TD50 icon on the desktop to start the program.

End-user documentation

The end-user documentation for the TD50 system has been updated with this software release.

The current *Reference Manual* is included on the TD50 software media (USB flash drive). End user documentation can also be downloaded from the product website

- www.kongsberg.com/td50

The TD50 *Reference Manual* is included with the TD50 software as on-line help.

Software licenses

The Simrad TD50 is not a licensed product.

Software installation

When a new software version is released for the TD50 system it must be installed on your computer.

A dedicated wizard is used to install the software. You need administrative privileges on your computer to do the software installation. Installation of additional operating system components may be required. These are installed automatically. Observe the information offered in the wizard.

If you have a preliminary ("Beta") software version installed, it must be removed before you can update. Use the operating system functionality to remove the old software version.

Registered dealers and distributors can download the new software version from the "Simrad Dealer Club". To access the "Simrad Dealer Club", visit our website.

- www.kongsberg.com/sdc

Note

All user settings and preferences are lost when the TD50 is upgraded.

You may need to change the settings in the Windows® firewall on the TD50 Processor Unit. For more information, refer to the TD50 Reference Manual and/or the TD50 On-line help.

Contact support

If there are any questions or issues related to the TD50 product, upgrade, user interface, performance etc, please don't hesitate to contact our support team.

Please use e-mail address.

- km.support.science@km.kongsberg.com

Include the phrase "TD50 issue" in the title of the e-mail.

Minimum computer requirements

Unless specifically ordered from Kongsberg Maritime, the TD50 system is not provided with a computer. A suitable computer must be purchased locally.

If you purchase a computer locally, make sure that the chosen model meets the functional and technical requirements.

It is important that the chosen computer model is relatively new with sufficient processing power, a high performance graphics adapter, and a high speed Ethernet adapter.

Note

The computer design and construction must allow for maritime use. Easy access to connectors, parts and cables must be provided. Make sure that the installation method allows for the physical vibration, movements and forces normally experienced on a vessel.

A laptop computer may be used as long as it meets the functional and technical requirements.

The minimum technical requirements are:

- **Microprocessor:** Intel I7 (or better)
An equivalent microprocessor type from another manufacturer can also be used.
- **Memory:** minimum 16 GB
- **Hard disk:** 1 TB

- **Graphics adapter**

- Minimum: NVIDIA GTX 1060

An equivalent microprocessor type from another manufacturer can also be used.

- Recommended: NVIDIA GTX 1080

A large number of commercial graphic adapters are available, and we have not tested all of them. Even adapters that meet the minimum specifications may fail with the TD50 software. We welcome any feedback with comments or experiences with graphic adapters.

- **Ethernet adapter**

- Minimum bandwidth 1 Gb/s

- **Operating system**

The TD50 software has been designed for Windows 10 (64-bit). The TD50 software will not run on Windows® 7 or older operating systems.

Tip

Kongsberg Maritime can provide a suitable computer. It is set up with all necessary software. The computer is based on a commercial design, but the software and hardware have been specified by Kongsberg Maritime to suit the TD50 requirements.

You can use one or two displays on your computer depending on personal and/or operational preferences.

Note

Make sure that the chosen display meets the requirements for the TD50 system. The design and construction must allow for marine use, and the display must be able to withstand the movements and vibrations normally experienced on a vessel. Verify that you have easy access to cables and connectors, and that the display can be installed in a safe and secure way.

The minimum technical requirements for the display are:

- **Resolution:** We recommend that you use a large display with resolution 1920 x 1080 or better.
- **Video interface:** The video interface must match the output format(s) provided by the computer.

The computer may offer video output on several formats. Investigate your options before you purchase a display.

- **Physical screen size:** The screen size depends on personal and/or operational preferences.

Minimum display requirements

Unless specifically ordered, the TD50 system is not provided with a display. The display must then be purchased locally.