
Kongsberg MS70



Software Release Note 24.5

KONGSBERG

Introduction

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

- **Product:** MS70
- **Software version:** 24.5

This software controls all functionality in the MS70 system.

Note

This software version requires Microsoft® Windows® 10 operating system. Unless your Processing Unit already uses this operating system, it must be upgraded.

Do I need to upgrade?

The introduction of new functionality, the improvements to the existing functionality, and the bug fixes all 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. New functionality is also introduced. The following specific changes have been made.

What is new?

- The MS70 user interface has been renovated to offer the same usability and user experience as the EK80 software. This includes some menus

and dialog boxes. This update is beneficial for users who are already familiar with the EK80 software.

- The **Beam Mode** dialog box has been improved. The new dialog is more intuitive, all settings are in one tab, and you can easily observe changes in the beam mode as you change the parameters.
- The new software version has been rebranded from "Simrad" to "Kongsberg". As a result, the software and data storage folder location paths have been changed to C:\Program Files\Kongsberg and C:\ProgramData\Kongsberg respectively.
- The new **Screen Recording** functionality allows you to record and save the echo presentation as a video file. Everything that happens in the presentation is recorded. This includes echoes, menus, dialog boxes and cursor movements. Each screen recording you make is saved in .mp4 format on the Processing Unit hard disk. By default, the screen recording time limit is set to 60 minutes.
- Added readout of 12 V power supply in the **Diagnostics** function for easier troubleshooting of the system.

Bug fixes

- Improved drawing of calibration target hits.
- Removed use of FPA equalizing for systems with LPT32 transceiver boards. Calibrated gain values will now be closer to nominal gain values for LPT32 systems.

- LPT32 transceiver boards did not support shorter pulses than 240 μ s. This problem is now solved.
- Various minor bug fixes.

Known issues

Certain software issues related to the Kongsberg MS70 are known.

- The user will experience lagging in resizing of the main application window.

End-user documentation

The end-user documentation for the MS70 system has been updated with this software release.

The MS70 *Reference Manual* is included with the MS70 software as context sensitive on-line help.

Preparations for upgrading Processor Unit software

There are a few considerations to be taken, before starting the actual upgrade of the Processor Unit software.

Prerequisites

In order to upgrade the software you need the relevant file set on a suitable media.

Context

If the Processing Unit is not using Windows® 10, the operating system must be upgraded. Follow the steps in this procedure in order to upgrade the operating system correctly.

If the Processing Unit is already using Windows® 10 and the correct image, please perform only step 1 of this procedure and then continue to the proceeding procedure.

Updating network adapter settings, page 2

Procedure

- 1 Make a copy of the relevant installation and communication parameters for the Processing Unit.

You can make screen dumps of the relevant pages from the **Installation** dialogs box. Relevant pages are **I/O Setup**, **Sensor Installation**, **Sensor Configuration**, and **Installation Parameters**.

Communication parameters considered most relevant are port, baud rate, data bits, parity, and stop bits. The most relevant installation parameters are navigation sensors, motion sensor, transducer, and ship's origin.

- 2 If you are updating to Windows® 10 using the Kongsberg image, make a copy of the following folder structure. This will include parameters and data for topside and beamformer.

C:\ProgramData\Kongsberg

- 3 Upgrade the operating system on the Processing Unit to Windows® 10, using the image provided by Kongsberg.

The software release note can be downloaded from our website.

- www.kongsberg.com/ms70

- 4 After upgrading to Windows® 10 copy the folder structure back onto the C drive of the Processing Unit.

Updating network adapter settings

As a result of compatibility issues between Intel and Microsoft, UDP packet loss occurs in the network teaming between the Processing Unit and the Transceiver. If you experience UDP packet loss, we recommend using a single network interface with a speed of 10Gbit/s. Contact Kongsberg for a recommended technical solution

for hardware and configuration upgrades. For customers with a fully functional system, please follow this procedure: Prior to software installation and upgrading, you need to disable the flow control function for the network adapters and also upgrade the network drivers. This is to avoid any trouble with the network.

Prerequisites

- Image with Windows® 10 is already installed.

Procedure

- 1 Upgrade the network driver for the Intel® i350 network adapter to: version 26.1

The network driver is available from this web-site:
www.intel.com
- 2 Disable **Flow Control** for both Intel® Ethernet Server adapter i350 network adapter ports.
 - a Open **Control Panel**
 - b Locate the Intel® Ethernet Server adapter i350 settings.

Open **Properties** and select **Configure**.
 - c Select **Performance Options** in the **Advanced** tab.
 - d Select **Flow Control** and set it to **Disabled**.
 - e Select **OK**.
- 3 Remove **WinPCap** from the computer.
- 4 Reinstall **WinPCap** version 4.1.3.

WinPCap is available from this location:

www.winpcap.org

Note

*The **WinPCap** installation must be done only when the upgrade of the network adapter is completed.*

Software installation and upgrade

Whether this is a first time installation or an upgrade, always strive to use the latest available software.

Prerequisites

- The Processing Unit must have Windows 10 installed. If an older version is installed, contact Kongsberg Discovery for information and procedures for complete upgrade information.

Context

A dedicated wizard is used to install the software.

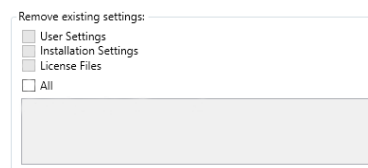
The new version of the software will automatically replace the old version. Read the software release note to see if special actions are required.

The software release note can be downloaded from our website.

- www.kongsberg.com/ms70

Procedure

- 1 On the MS70 Processing Unit, locate and double-click the file *Setup.exe* to start the installation.
- 2 In the first dialog box, verify that all checkboxes are deselected if you want to keep all existing settings.
- 3 Check the license agreement and select the checkbox to agree with the license terms and conditions.



- 4 Once the software installation has been completed, double-click the icon on the desktop to start the application.

After upgrading MS70 software

After an upgrade of the MS70 software there are a few elements which are essential to perform before you start using the MS70 Processing Unit.

Procedure

- 1 If you have the new internal rack mountable power supply installed, send the following file to Kongsberg Discovery for modification:
C:\ProgramData\Kongsberg\ME70\ConfigSettings\MS70_config_dynamic.xml
The MS70 software is by default configured to communicate with transceivers using the three external power supplies, and the system might need an additional reconfiguration.

[Contact support](#)

- 2 Do a complete target strength calibration of the MS70 system.

For this release this is particularly important because of the fixed FPA equalizing bug.

Contact support

If there are any questions or issues related to the MS70 product, upgrade, user interface, performance etc, do not hesitate to contact our support team.

Use this e-mail address.

- support.science@kd.kongsberg.com

Include the phrase "MS70 issue" in the title of the e-mail.