Kongsberg EK80 – Software Release Note 26.2.3

KONGSBERG

Introduction

This document describes the changes introduced with the new software version.
Product: EK80
Software version: 26.2.3
Upgrade from version: 26.2.2
This software controls all functionality in the EK80 system. This includes transmission and reception, interfaces with external peripherals and sensors, and all user interface.

Do I need to upgrade?

We recommend all customers to install the latest software version.

Software changes

This software update includes new features and 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.

New features

–Processing raw files to netCDF format: the EK80 can now run in batch processing mode to convert raw files to netCDF format. This is useful when you need to reprocess raw files with different ADCP editing or ping average settings. Batch processing still runs EK80, but you may find it more convenient to pass the filtering parameters as command-line arguments instead of changing them in the graphical user interface.
–ADCP calibration: you can now calibrate multiple ADCP transceivers in a single operation.
–A new Normal Operation option lets you group the transducers that shall ping simultaneously. It was originally designed to separate echo sounders from ADCPs, but it now lets you define the groups freely. You can now place non-interfering transducers in the same group and transducers that may interfere in a separate group.
–This release introduces two new ways to access ADCP data, both in Real-time and Replay:

- PKWVQ output: a new NMEA-style output, PKWVQ (Proprietary Kongsberg Water Velocity and Current), that provides geographically referenced water-current data with layer-based quality indicators. The output is available over serial line or Ethernet.
- AdcpVandQ subscription: a new REST API subscription, AdcpVandQ (ADCP Velocity and Quality), provides full access to high-resolution ADCP velocity data and associated quality indicators.

–Diagnostics: The **Diagnostics>Noise** now shows estimated values for noise floor and equivalent CW noise.
–Negative water temperature: the EK80 now accepts negative water temperature values, enabling normal operation in high-latitude environments.
–The **Display>Screen** Brightness button now controls the brightness of all connected displays. As a known issue, switching between applications using Alt+Tab may show multiple placeholder tasks named BrightnessOverlayWindow. We plan to address this issue in a future release.

ICES NetCDF various bug fixes

–The EC150 transceiver incorrectly wrote an impedance value of 1000 Ohm in its initial XML configuration. The system now correctly writes 75 Ohm.
–The equivalent beam angle was incorrectly stored in dB instead of steradians. This has now been corrected.
–A variable-length dimension mismatch between the ADCP group and the /Mean_ current group caused problems for applications reading both groups. The dimensions are now consistent across both groups.
–A few other bugs and inconsistencies have been corrected.

Bug fixes

–Miscellaneous bug fixes found during system testing and reported by customers have been corrected.

Data subscriptions and remote control applications

–REST API is the new procedure for setting up data subcriptions and do remote control with the EK80. For new data subscription and remote control applications, we recommend using the REST API.

General improvements

–Some users reported they couldn't open the file directories in some dialogs. These dialogs have now been replaced by default Windows dialogs. Note that these dialogs do not follow the day/night brightness themes.
–The 200-28E transducer is now supported by the EK80.

Known issues/bugs

–You will not get data from your ADCP if you have more than one MRU input. This can occur when using two KM Binary sources for redundancy or when both KM Binary and EM3000 are configured simultaneously. To resolve the issue, uninstall one of the MRU sources from the EK80 Sensor Input configuration.
–The online help included with this release reports software version 26.2.2., it is only documentation versioning. The online help content is fully applicable to EK80 software version 26.2.3.
–In some cases, the EK80 installer may fail with error "0x8004090D - Installation Error" or "error 0x80070643". These issues are typically related to the Microsoft WebView2 component, which is used for displaying online help.
If this occurs, we recommend the following actions:

- If the issue persists, run the installer with administrator privileges.
- If the installation still fails, uninstall the existing WebView2 Runtime and then re-run the EK80 installer.

Contact support

If there are any questions or issues related to the EK80 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 "EK80 issue" in the title of the e-mail.

If you need technical support, please contact a Kongsberg Discovery office. A list of our offices is available on our website. You can also contact our main support office in Norway. Manuals and technical information can be downloaded from our support website.

Support website:
https://www.kongsberg.com/support-and-services/ocean-space/product-support-a-z/
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