Version 2.20 Release Notes (Feb. 8, 2018)

New Features:

- Supported uncalibrated backscatter data (Beam Average).

Improvements:

- Improved beamformer performance.
- DB: Changed to high transmit power for ranges 20m or less for all Imaging Modes.
- 1PPS option is restored.

Bug Fix:

- Fixed TVG curve displayed on the TVG window for both playback and running head modes.

Version 2.10 Release Notes (Aug. 22, 2017)

New Features:

- Added API mode, and API tester software.
- Added Advanced User mode (previously in MUM software).

Improvements:

- Reduction of gap in Bathymetry Data during Range Changes.

Bug Fix:

- M3 software crashed after clicking "Stop Exporting".
- GeoTiff Auto Save: Cropped Width shows random numbers.
- M3 host 1PPS time sync option does not work properly.
- Typo in Head Firmware Configuration dialog box.

Version 2.01 Release Notes (Apr. 7, 2017)

Improvements:

- Improved the depth-tracking algorithm.
- Improved the time synchronization between the M3 sonar and processor.

Bug Fix:

- Export to File does not work in version 2.0.
- Wrong profiling algorithm is used after a fresh install.

Version 2.00 Release Notes (Nov. 28, 2016)

New Features:

- Added application of real-time sound speed to sonar images and profiles.
- Added auto-ranging / bottom-tracking.

Improvements:

- Improved the .ALL file and export support.
- Added ‘1m to 20m’ and ‘1m to 15m’ range settings to Profiling Fast (“Bathy”).

Bug Fix:

- TVG does not automatically adjust for changes in transmit power.
- Head time synchronized to host time only on first Connect after software start.
- Using sonar app "Ethernet Test - 1000Mbps" makes the software crash.

- Override Network Link Speed toggling on automatically.
- Rx amplitude and phase correction is disabled when running head.
- Sometimes the grid overlay does not update properly.

Version 1.62 Release Notes (Mar. 04, 2016)

Bug Fix:

- TSS parsing timeout issue results in occasional dropouts in motion data.

Version 1.61 Release Notes (Jul. 15, 2015)

New Features:

- Octans Attitude sensor support in Octans STD1 format
- Valeport mini SV support

Improvements:

- Option to select the source of the heave sensor
- Data improvement for QPS Qimera software

Bug Fixes:

- Bug fix, EM3000 heading was not working in version 1.6
- Bug fix to resolve software crash issue in version 1.6

Version 1.6 Release Notes (Jan. 30, 2015)

New Features:

- Added the support for EM3000 attitude sensor data format
- Added Ping to ping averaging filter to reduce the noise and persist moving features.
- Added Background Removal filter to remove the stationary background.
- Added Edge Enhancement filter to enhance the edge of the moving features.
- Implemented .ALL Clock datagram for QINSy interface
- Added a Rub-test mode for quick test the sonar transducer before putting the sonar head to the water.
- Added Rectangular Grid.
- Added Trenching depth measurement tools that can be used when excavating.

Improvements:

- Auto-connect: when enable, the M3 software will check for Sonar Heads and connect automatically when it is launched.

Bug Fixes:

- Mounting override during playback does not work.

Version 1.5 Release notes

New Features:

- Target Marker on the 3D real-time point cloud display
- Bathymetry water column data added to the PMB file format
- Sensor input and Rotator control through sonar head underwater serial port.
- Added Ethernet test modes for 10, 100 and 1000Mbps

Improvements:

- More range scales are added to the existing modes.
- New recording MMB data format to reduce the recording data size.

Bug Fixes:

- Ping time display issue at 12:00:00 PM.

Version 1.41 Release notes

New Features:

- Dual-Head Profiling: synchronize two M3 systems to provide wide swath for wide profiling coverage.
- Profiling data format support for third party software such as HYPACK® HYSWEEP and CARIS® HIPs & SIPs.
- System time sync with ZDA
- Output target marker position to a Google® KML file.

Improvements:

- Improved 3D point cloud control, measurement tool, point size, color scheme.
- Display vessel speed when sensor information is available.
- Improved profiling algorithm and ping rate.

Bug Fixes:

- Sonar display is mirrored to the 3D point cloud display when set to downward looking mode.

Version 1.4 Release notes

New Features:

- **Profiling:** a M3 sonar head can be used in both imaging and profiling modes. The profiling mode includes:
    - Vessel mounted bottom profiling, vertical structure profiling (2D and 3D). Support Kongsberg .ALL format output, the M3 profiling data can be processed with the third party post-processing software including existing version of Hypack MBMAX64, future upgraded version of CARIS HIPs & SIPs and QPS Qinsy.
    - Rotator mounted 3D profiling. Support ASCII X, Y, Z output.
- **Profiling:** real-time 3D profiling display, user can observe the profile data collection in 3D for quality assurance purpose.
- **Imaging:** automatically generate GeoTiff files based on the vessel travel distance or travel time to create sonar mosaics.
- **Synchronization:** support hardware synchronization and 1PPS synchronization (Input and Output).

Improvements:

- Support UDP sensor input.
- Generate an ASCII description file when saving an image file.

Bug Fixes:

- Fixed range slider issue in “ROV Navigation” App mode.

Version 1.31 Release notes

Improvements:

- Automatically update sonar configuration (built before May, 2013) when sonar head is connected.
- Sonar operator can mark a target on the sonar screen and export the coordinates through UDP.

Version 1.3 Release notes

New Features:

- Sonar image screen is geo-referenced.
- Sonar images can be captured to GeoTiff.
- Sonar operator can mark a target on the sonar screen and export the coordinates through a serial port.
- Implemented a batch conversion tool to convert the .mmb files to the .imb files.
- Added Pan and Tilt controls for Pan and Tilt mounted sonar mounting.
- The M3 1.3 installation is compatible with Windows 8 64 bit Pro Edition.
- Sonar operator can enter custom strings to be displayed on the sonar image.
- One button recording and screen capture with pre-defined file path and name.

Improvements:

- Improved the sonar data uplink efficiency.
- Added sonar mounting indicator to visualize the actual mounting configuration.
- Optimized the sonar Apps and added a few new Apps.
- Implemented the disk size monitoring function during data recording.
- Updated the playback dialog box.
- Added warning for operating in the low temperature environment.
- Improved the short range image quality.

Bug fixes:

- Grid lines are not updated in converted Video files.
- TVG B factor was used incorrectly.

Version 1.2 Release notes

New Features:

- Added the function to allow user to customize the sonar application menu
- Added Image Quality Analysis System (IQAS) tool
- NMEA heading, positioning and motion sensors serial input are supported, the NMEA sensor data can be displayed on the screen and recorded
- Be able to convert the M3 recording file according to Seebyte naming convention
- Beamformed data output through TCP/IP

Improvements:

- Improved the usability of the range slider bar
- Improved the Copper palette
- Added playback console to improve the playback functions

- Increased the number of selectable range scales

Bug fixes:

- Head status monitoring tab is partially obscured
- TVG L factor has no effect