

Firmware and Software Updates

Highlighted items are latest updates.

Date	Type	Version	Comments
28 Mar 2019	Release	gui: 09-Feb-2019 head: 28-Mar-2019 tx (2020/2026): 29-May-2017 tx (2022/2024): 16-Aug-2010 sim: 03-Apr-2017	GUI release <ul style="list-style-type: none"> • 450kHz operation is available for all 2020 systems. • Performance improvements and fixed minor bugs in GUI.
18 Jan 2019	Update	gui: 07-Jan-2019 head: 13-Nov-2018 tx (2020/2026): 26-Feb-2016 tx (2022/2024): 16-Aug-2010 sim: 03-Apr-2017	GUI updates <ul style="list-style-type: none"> • 450kHz operation for all 2020 systems • Bug fixes and performance improvements
28 Sept 2017	Update	gui: 28-Sept-2017 head: 03-Apr-2017 tx (2020/2026): 26-Feb-2016 tx (2022/2024): 16-Aug-2010 sim: 03-Apr-2017	GUI update <ul style="list-style-type: none"> • GUI support for units of survey feet
13 Apr 2017	Release	gui: 12-Apr-2017 head: 03-Apr-2017 tx (2020/2026): 26-Feb-2016 tx (2022/2024): 16-Aug-2010	GUI and Firmware Release <ul style="list-style-type: none"> • Ultra High Density (1024 soundings) • Pipeline Mode (MultiMode) • TruePix™ Monitor

		sim: 03-Apr-2017	
03 Nov 2016	Release	gui: 25-Oct-2016 head: 22-Jun-2016 tx (2020/2026): 26-Feb-2016 tx (2022/2024): 16-Aug-2010 sim: 02-Dec-2015	GUI release <ul style="list-style-type: none"> MultiSpectral Mode™, collect data at multiple frequencies in a single pass with one system for bottom classification. Gui: swath coverage can be adjusted one side at a time. Gui: copper-black palette available for acoustic image. Gui: fixed localization issue (decimal and comma).
23 June 2016	Release	gui: 27-May-2016 head: 22-Jun-2016 tx (2020/2026): 26-Feb-2016 tx (2022/2024): 16-Aug-2010 sim: 02-Dec-2015	Major firmware & GUI release <ul style="list-style-type: none"> Standard frequency range is expanded to 170-450kHz for Sonic 2026 systems, and Sonic 2022 and 2024 systems with model 1006 projectors. GUI now includes ROBO Mode for shallow water surveys less than 40m in depth, simplifying sonar operation. 700kHz UHR option is now available for Sonic 2020 systems, enabling 1° x 1° beamwidths. UHR sector coverage is extended to 70°, increasing swath coverage. Pitch stabilization is now supported by the Sonic 2020 and 2026 systems. Steerable / Adjustable Beamwidth Forward-Looking Sonar is now available as an optional upgrade for Sonic 2020 and 2026 systems, allowing for better use of fixed sonar installations and increased control over the area. Minor feature additions to GUI.
08 Aug 2014	Release	gui: 27-Jun-2014 head: 17-Jun-2014 sim: 06-Feb-2014	Added saturation monitor & other enhancements. <ul style="list-style-type: none"> Gui addition: Saturation monitor. Head firmware addition: Head reports TX voltage difference, in dB, at the time of ping from user setting. Useful for bottom classification software.

			<p>Reported in the H0_TxMiscInfo data header.</p> <ul style="list-style-type: none"> • Increased range to 1200 metres (head and GUI). • Gui fix: Minor threading enhancements. • Minor adjustments to head firmware.
08 Aug 2014	Update		<p>Wireshark decoder update (for software developers)</p> <ul style="list-style-type: none"> • Updated Wireshark packet decoders. Support for versions 1.12.x • New & improved Ethernet playback utility for Wireshark .pcap files.
05 Apr 2014	Update	gui: 04-Apr-2014	<p>Addition support for integrated INS</p> <ul style="list-style-type: none"> • SIM-INS recognition. • Expanded engineering commands. • Minor adjustments to head firmware.
10 Feb 2014	Release	gui: 19-Jan-2014 head: 16-Nov-2013-04-35-57 sim: 06-Feb-2014	<p>Support integrated INS and Ethernet motion data.</p> <ul style="list-style-type: none"> • Motion and time data via Ethernet with R2Sonic INS format. • Support for Octans TAH motion format (RS232 & Ethernet). • Integrated INS option. • Gui addition, Remote Assistance using TeamViewer (Internet connection required). • Additional remote GUI commands to adjust absorption & spreading loss. • Head will automatically detect if the Ethernet connection uses 2-pairs & drop to 100Mbit data rate.
17 Nov 2013	Update	gui: 17-Oct-2013 head: 16-Nov-2013	<p>Added bottom sample mode.</p> <ul style="list-style-type: none"> • Added bottom sample mode.
02 Apr 2013	Update	gui: 22-Mar-2013 head: 16-May-2013 sim: 08-Aug-2012	<p>Support for the 2020.</p> <ul style="list-style-type: none"> • Added support for 2020 (gui & head firmware). • Can run many instances of gui using command line switch /instance=n, where n = 1 thru 9. • Added Intensity Enable checkbox to Sonar Settings window.

			<p>This enables intensity data in the bathy packet. Previously, required setting display mode to intensity.</p>
14 Sep 2012	Release/Update	gui: 17-Aug-2012 head: 16-Aug-2012 sim: 08-Aug-2012	<p>Support for UHR (700 kHz) and minor gui fixes. For systems without UHR option or projector, firmware update is not needed.</p> <ul style="list-style-type: none"> • Head & GUI, UHR support. • SIM bug fix, sending both ZDA & UTC time strings. • GUI fix, Windows 7 networking issue with two or more NICs. Win2k & XP not affected. • GUI bug fix, rare crash when AI enabled. • GUI addition, projector ID readout to status.
27 Aug 2012	Update		<p>Wireshark decoder update (for software developers)</p> <ul style="list-style-type: none"> • Updated Wireshark packet decoders. Support for versions 1.6.x and 1.8.x.
16 May 2012	Update		<p>Sample Ethernet data for software developers</p> <ul style="list-style-type: none"> • Added Equidistant bathy data. • Updated Wireshark packet decoders (new status data item).
24 Apr 2012	Minor Update	gui: 24-Apr-2012	<p>Minor GUI update</p> <ul style="list-style-type: none"> • Selectable bathymetry dot size, 1 or 3-pixels. Useful for observing AI data. • Updated DefaultSettingsDualHead.ini file. • Added response time to status screen. Useful for measuring Ethernet latency on ROVs.
16 Apr 2012	Release	gui: 12-Apr-2012 head: 13-Apr-2012 sim: 05-Apr-2012	<p>Major firmware & GUI release</p> <ul style="list-style-type: none"> • TruePix™, Water Column, Forward Looking options • Acoustic imagery in gui • External ping sync input & output • Dual head mode synchronization, alternating & simultaneous

			<ul style="list-style-type: none"> • Single ping mode • Snapshot • Measurement ruler (Ctrl+LMB) • Indicators in gui echo SIM LEDs • Status & options view • GUI accepts Euro settings regarding decimal point • Added minimum range gate • Hot keys: Alt+Z = zero sector; Alt+X = snapshot; F2 = sonar settings • GUI accepts remote commands (for developers)
11 Apr 2012	Update		<p>Sample Ethernet data for software developers</p> <ul style="list-style-type: none"> • Bathymetry, TruePix™, Snippets, WC, AI, Status data • Tutorial: Recording & playback of Ethernet data • Wireshark packet decoders for uplink data • Control and data format documentation (PDF)
29 Mar 2011	Release	gui: 29-Mar-2011 head: 14-Mar-2011 sim: 21-Oct-2010	<p>Major firmware & GUI release</p> <ul style="list-style-type: none"> • GateTrac (auto gates) • RangeTrac • Ping sync output • Shift+LMB required to disable transmitter • RMB moves both depth gates in tandem • Enable/disable draggable sector