

Noxturnal 7.2

Release Bulletin



Version: 2.0 – LBL-0598

Release Date: 10th of July

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Nox T3s®, Nox A1s®, Nox C1 and Noxturnal® are manufactured by:

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Overview

This Release Bulletin announces the release of the following Noxturnal software and CDs

- Noxturnal – **7.2.0 - 40504**
- Noxturnal US – **7.2.0 - 40504**
- Noxturnal Language Pack – **7.2.0 - 40317**

The software also contains new versions of the Nox T3s and Nox A1s firmware:

- Nox T3s Firmware – **3.1.2.2868**
- Nox A1s Firmware – **3.1.2.2868**

Noxturnal 7.2 introduces key usability enhancements designed to streamline workflows for both clinicians and scorers. This release includes a redesigned scoring experience with customizable single-click scoring, improved titration management with new overview tools, and greater control over event visibility in Wake. Together, these updates aim to make scoring, reviewing, and managing studies more intuitive and efficient.

Changes to the Nox T3s and A1s firmware include:

- The ability to turn on/off the successful study indicator with settings in Noxturnal
- Changes in pairing the Nonin 3150 pulse oximeter to prevent the loss of oximetry signals during studies
- Minor stability and bug fixes

Note that this release should not be used with Nox Connect due to compatibility issues.

Finally, this software release also contains an updated version of the Noxturnal Language Pack and product manuals (T3s, A1s and Noxturnal manuals), supporting the following languages:

- Chinese
- Czech
- Danish
- Dutch
- Finnish
- French
- German
- Italian
- Japanese (no updates for JP manuals in this version)
- Norwegian
- Polish
- Portuguese
- Spanish
- Swedish

Updates of Nox T3s & A1s manuals

This release contains updates to the Nox T3s and A1s manuals and translations with updates about specifications for the new recorders. The device manuals are no longer embedded in the software but can be accessed through a link to the Nox Medical support website.

- Nox T3s Manual v.2.3 and translations:

- Czech
- Danish
- Dutch
- Estonian
- Finnish
- French
- German
- Italian
- Lithuanian
- Norwegian
- Polish
- Portuguese
- Spanish
- Swedish

- Nox A1s Manual v.2.3 and translations

- Czech
- Danish
- Dutch
- Estonian
- Finnish
- French
- German
- Italian
- Lithuanian
- Norwegian
- Polish
- Portuguese
- Spanish
- Swedish

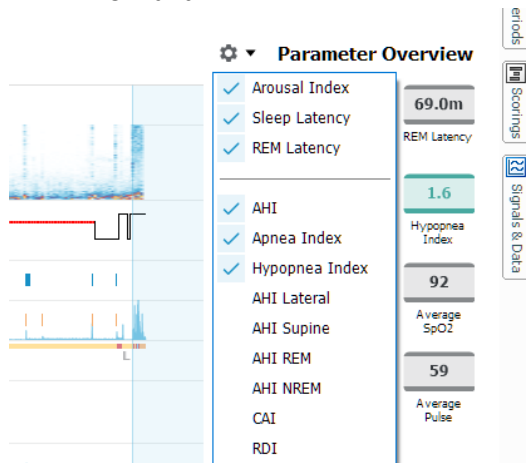
- Nox T3s US Manual v2.2

- Nox A1s US Manual v. 2.2

Figure 1: Event Visibility Settings

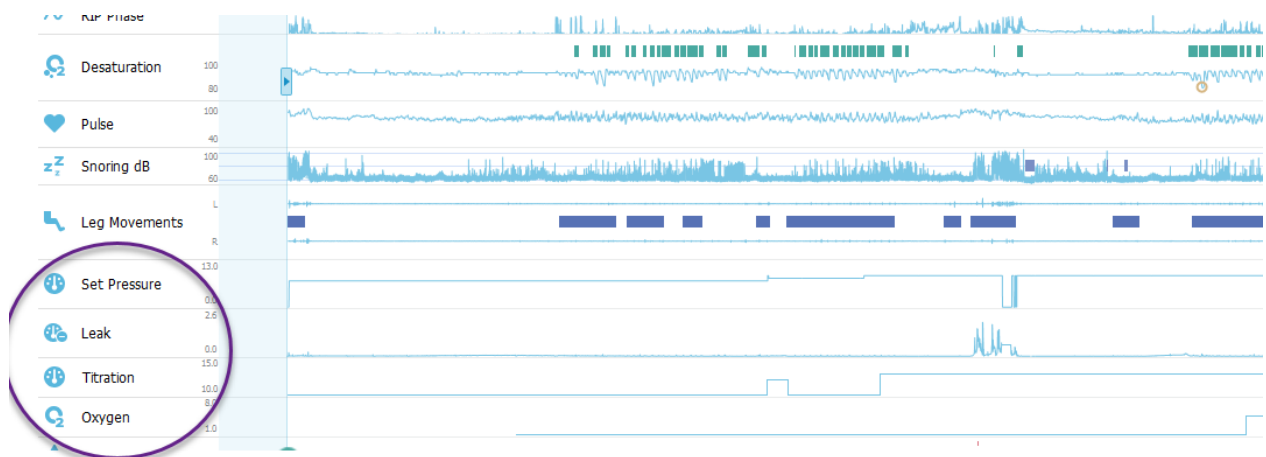
◆ **Feature: Parameter overview customizable**

- Parameters were added and the selection made customizable
- Hypoxic Burden added
- Additional AHI info added to parameter panel: AHI lateral, AHI supine, AHI REM, AHI NREM, CAI and RDI

**Figure 2: Customizable parameter overview from the Recording Results page**

◆ **Feature: Updates to Recording Results**

- PAP traces added to Signal overview
- Manual titration added to Signal overview including Oxygen titration
- Rendering of the Recording Results tab optimized

**Figure 3: Signal overview added for automatic PAP traces as well as manually titrated events**

◆ **Feature: Hypoxic Burden**

- Hypoxic burden is a novel parameter that quantifies the oxidative stress and disease burden of sleep apnea.
- Implementation based on [Ali Azarbarzin et. al. The hypoxic burden of sleep apnoea predicts cardiovascular disease-related mortality: the Osteoporotic Fractures in Men Study and the Sleep Heart Health Study, European Heart Journal, 2018](#)

- Visible under Parameter Panel on Recording Results tab and can be added to reports
- The units of hypoxic burden are %min/h



Figure 4: Hypoxic Burden value as displayed on Recording Results

◆ **Feature: TxLink2 titration compatibility**

- All TxLink2 modes supported in titration summary tables
- Supported modes: CPAP, AutoSet, AutoSet for Her, S, T, ST, VAuto, ASV, ASVAuto
- Possibility to manually titrate Oxygen at the same time as titrating via TxLink/TxLink2

CPAP Summary					
Pressure	Duration (m)	TST	PLMS Index	Snore (%)	
10	3,3	3,3	0,0	0,0	
BPAP Summary					
IPAP / EPAP	Duration (m)	TST	PLMS Index	Snore (%)	
6 / 24	4,7	4,7	0,0	0,0	
11 / 5	3,7	3,7	0,0	0,0	
12 / 7	5,3	5,3	0,0	0,0	
15 / 10	5,5	5,5	0,0	0,0	
ASV Summary					
EPAP - Max/Min PS	Duration (m)	TST	PLMS Index	Snore (%)	
9 - 10 / 3	4,7	4,7	0,0	0,0	
ASV Auto Summary					
Max/Min EPAP - Max/Min PS	Duration (m)	TST	PLMS Index	Snore (%)	
7 / 5 - 16 / 6	3,4	3,4	0,0	0,0	
AutoSet Summary					
MaxAPAP / MinAPAP	Duration (m)	TST	PLMS Index	Snore (%)	
12 / 4	4,0	4	0,0	0,0	
15 / 6	3,3	3,3	0,0	0,0	

Figure 5: A PAP table in Noxturnal with different modes from the TxLink2

◆ **Feature: Manual titration support improved**

- A titration dropdown is added when recording an In-Lab recording.
- New option added to set custom titration as well as titration start and stop (PAP start/stop)
- Possibility to titrate oxygen at the same time as titrating via manual titration, e.g. CPAP or custom titration.
- Manual Titration overview added
- Titration signal overview on the Recording Results Tab, as well as signal overview for manual oxygen input.
- Custom titration events can also be added after the recording has stopped

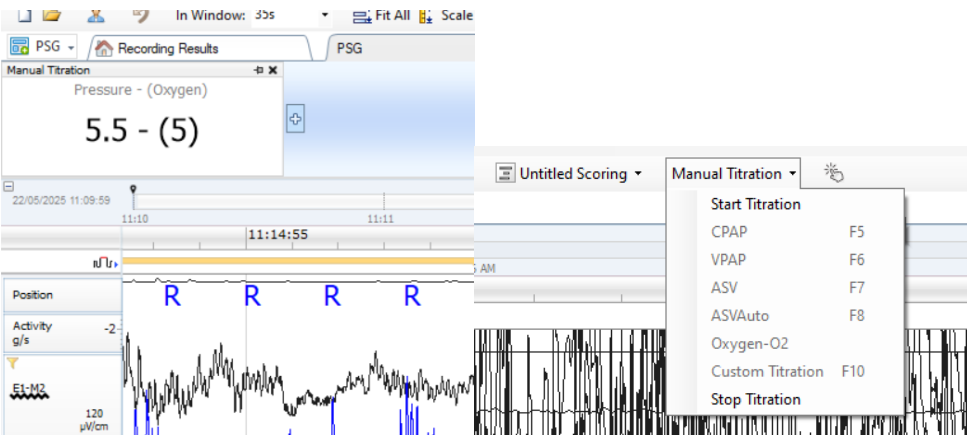


Figure 6: The manual titration view and dropdown menu available during an In-Lab recording

- ◆ **Feature: Single Click Scoring default location**
 - Preset location for events when single-click scoring
 - Option to customise a default setup

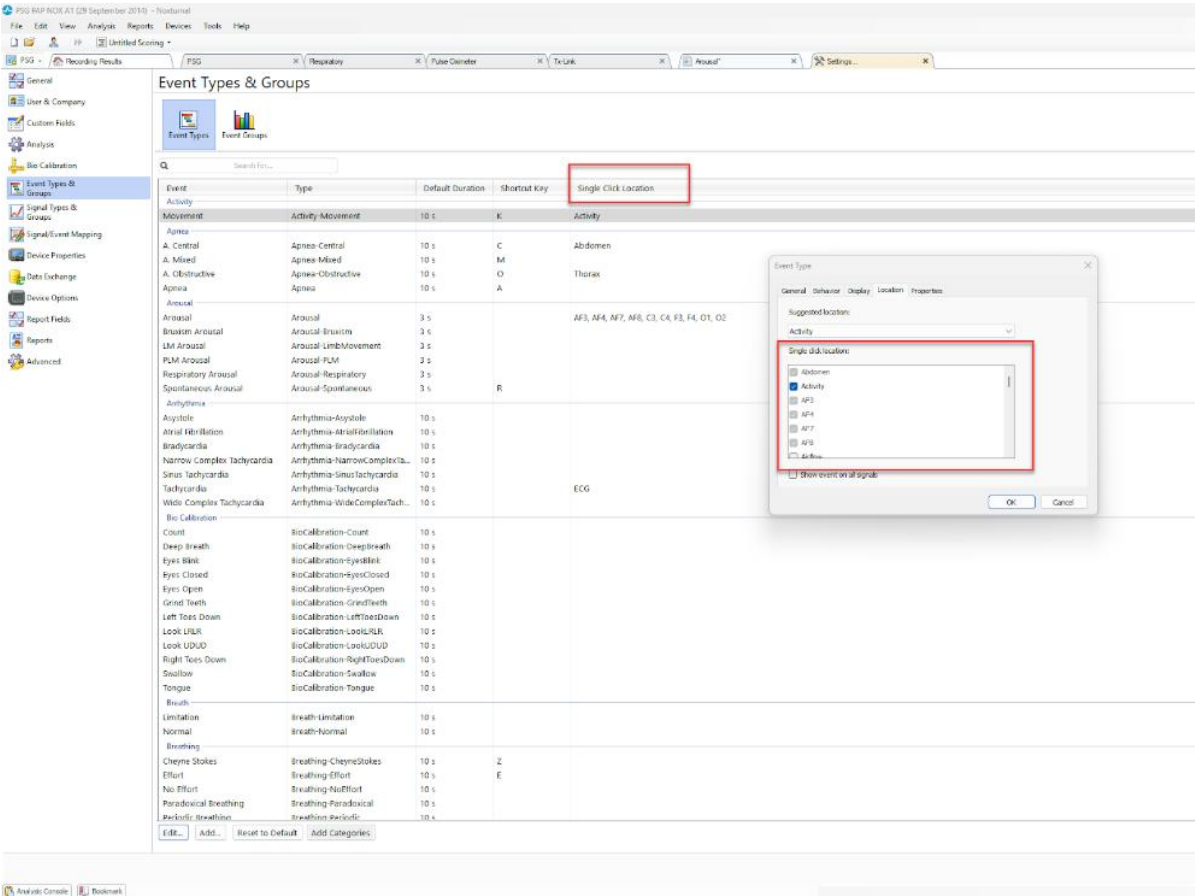


Figure 7: Each event can be set to a default single-click scoring location through the Event Types & Groups settings in Noxturnal 7.2

◆ Feature: Sentec tCOM+

- Integration with the new Sentec tCOM+ for In-Lab recordings.
- Available when adding devices to Online Rooms



Figure 8: Sentec tCOM+ device properties

✂ Other Changes

- Updated Arousal detector for Noxturnal ROTW
- Option to turn off the Successful Study Indicator
- Device Manuals replaced with a link.
- Optimizing downloads from Nox Connect
- Remove 32-bit support
- Silent install optimization
- Remove C++ 2013 dependency
- Improving the visibility of which epoch will be scored when sleep staging
- Upgrade version of TxTextControl

⚠ Known Issues Fixed

- Error archiving an In-lab recording
- SSI Duration setting does not persist through Nox Connect
- Noxturnal does not always detect installed frameworks
- Events within 4% AHI parameters are counted twice when apnea and hypopnea overlap
- Analysis cursor in Noxturnal Cloud - stop moves when adding start
- Invalid Sentec signals
- Single click scoring icon moves to the right
- Event overview - incorrect properties tooltip text
- Unhandled exception clicking Show in Explorer
- Unhandled Exception - Delete not saved Attachments
- Recordings can be deleted when dragging and dropping in the Recording Library
 - Empty recordingid in files from Noxinu
- PAP table fixes:
 - PAP table incorrect if there is a gap in the study
 - PAP table increases when report is refreshed
 - PAP table issue when header exceeds 4 lines
 - Last CPAP value not appearing in PAP table
 - PAP table does not take into account PAP periods

Upgrade Recommendation and Workarounds for Nox Users

Noxturnal Upgrade Wizard

Noxturnal 7.2.0

Noxturnal 7.2.0 has a built-in upgrade wizard for all users upgrading from 5.X or 6.X versions of Noxturnal. This upgrade wizard prompts the user with selections on whether they want to upgrade with their old settings as part of the installation procedure or if they want a fresh installation.

Noxturnal US 7.2.0

Upgrading from Noxturnal US 6.X.X

The Upgrade wizard will pop up with information on whether the user wants to maintain old user settings or if they want a fresh installation.

Upgrading from version 5.x or older

If upgrading in the US market from a version 5.X or older, consider the upgrade instructions [here](#).

Older Noxturnal Versions

If users are working on an older version of Noxturnal (3.X and 4.X), it is recommended to do a fresh install and setup of the software since so many things have changed in recent releases and updating on top will create more problems than it solves.