

Product Release Note

Model: NeuroScore™
Version: 3.3.1
Build: 006742-005 (CD Build)
Date: June, 2018

Product Release Notes for NeuroScore version 3.3.1 indicate revisions made to the NeuroScore core application and optional modules since release of version 3.0.0. For information regarding changes to the software from previous versions, please contact DSI Technical Support. Product Release Notes indicate only revisions to application contents that are part of a specific CD build.

Considerations

- Version 3.3.1 can be installed over the existing installation (e.g. v3.0.0 does not need to be uninstalled to install v3.3.1)
- Version 3.3.1 will not require a new license file when upgrading from v3.0.0. The following aspects of the program will carry over when upgrading:
 - Saved sheet layouts
 - Scoring protocols
 - Analysis sessions associated with a recording (scorings, sheet tabs, periods, reports, etc.)
- When upgrading from v1.x or v2.x to v3.3.1, the following aspects do not carryover:
 - Recording Library listings

Software changes between v3.3.1 and v3.2.1

Feature	Description	Module(s)	Disposition
		Affected	
Spike Detector	An option has been added to allow the 1 Hz high	Seizure	Enhancement
Filtering	pass filter applied by the Spike Detector during	Module	
(41894)	automated analysis to be disabled.		
Dataquest ART	When using large amounts of Activity data from	Core	Fix
Activity data	Dataquest ART, a misalignment would occur	Software	
misalignment	between both the time stamps and activity instances		
(40898)	when comparing the data loaded into Dataquest		
	ART versus NeuroScore.		
	This has been corrected.		



Noldus Media	Support has been added to load view and	Core	Enhancement
Recorder/	synchronize video files collected from Ponemah	Software	Lindheemene
Recordery Ronemah v6 4v	v6.40 using Noldus Media Percerder 4.0	Soltware	
Video			
Viueo	Note: K lite codes provided with 2.2.1 installation bit		
Compatibility	Note: K-inte codec provided with 3.3.1 installation kit		
(40895)	must also be installea.		
Poneman v6.x	when exporting data from the Poneman v6.x file	Core	FIX
the export to	format to an edit format, the export would fail and	Software	
edf	create only a 3kb file with no data.		
(40462)			
	This has been corrected.		
Signal Grid	When averaging data from Ponemah in a signal grid,	Core	Fix
Averaging	the resulting averages were inconsistent between	Software	
(40460)	corresponding timestamps.		
	This has been corrected.		
Signal Grid and	When viewing data from a subject that spans	Core	Fix
Signal Sheet	multiple .PnmWav files, a gap appeared in the	Software	
gaps with	activity and temperature data at this transition of		
Ponemah v6.x	the data files. This was visible from the Signal Grid		
data	and Signal Sheet pages.		
(40459)			
	This has been corrected.		
NeuroScore not	NeuroScore was reading timestamps from Ponemah	Core	Fix
reading correct	data incorrectly when encountering Ponemah data	Software	
time stamps	breaks (i.e. using scheduled sampling or		
(40457)	stopping/restarting acquisition) and would therefore		
	not display the gaps in data properly.		
	This has been corrected.		
Ponemah v5.20	Video data collected using Ponemah v5.20 with	Video	Fix
with Noldus	Noldus Media Recorder v2.6 was taking significantly	Module	
Video	longer to load into NeuroScore than expected.		
(39256)			
	This has been corrected.		



Copy as Image	When using the Copy as Image function with	Core	Fix
issue with	Ponemah v6.x data, the pasted image did not display	Software	
Ponemah v6.x	properly when data dropout was In Window.		
data			
(38633)	This has been corrected.		
German OS	When using NeuroScore on a German version of the	Core	Fix
compatibility	Windows 7 operating system, the following error	Software	
(32617)	may occur upon trying to open a recording:		
	"Could not open this recording. It is either damaged		
	of the file format is missing."		
	This has been corrected.		
Large Animal	In the Advanced Settings of the Large Animal Sleep	LA Sleep	Fix
Sleep Scoring	Scoring Detector, the default EOG settings for	Module	
Detector	Wake/REM level and N1/N2/N3 level were reversed.		
Settings			
(30847)	This has been corrected.		

Software changes between v3.2.1 and v3.2.0

Feature	Description	Module(s) Affected	Disposition
Spike Detection	When attempting to run spike detection on a signal	Seizure	Fix
(33763)	with a high sample rate (>1000 Hz) the detector may	Module	
	fail, presenting the following message:		
	"An entry with the same key already exists."		
	This has been corrected.		
	Workaround:		
	A workaround is to create a Mean derived signal to		
	create a 1000 Hz signal from the original signal		
Ponemah v6.xx	When collecting data in Ponemah v6.00+ in one time	Core	Fix
Compatibility -	zone, and then loaded the data into NeuroScore	Software	
Time Zones	3.2.0 in a different time zone, the data timestamps		
(31807)	maybe shifted by a number of hours.		
	This has been corrected to appropriately handle		
	loading data collected in different time zones.		



Software changes between v3.2.0 and v3.0.0

Feature	Description	Module(s)	Disposition
		Affected	
Ponemah v6.xx	Support has been added to read the file format	Core	Enhancement
Compatibility	introduced with Ponemah v6.00+.	Software	
(31806)			
Noldus Video	Support has been added to load, view and	Core	Enhancement
Compatibility	synchronize video files collected from Ponemah	Software	
(31807)	v5.20 using Noldus Media Recorder.		
	Some issues remain with viewing MPG based video		
	files with external XMP files. This is most probably a		
	codec issue. AVI files are working well.		
Marker List	When using large datasets with a large number of	Marker	Enhancement
Display	markers, NeuroScore would be slow to react when	List	/Fix
(30251)	scrolling through the data and reanalyzing. This was		
	caused by the Marker List tracking the large number		
	of markers placed throughout the dataset.		
	The Market List has been enhanced to allow the user		
	to choose between showing all markers in the list,		
	disabling all markers from being displayed in the list,		
	or just disabling sub-markers from being displayed in		
	the list.		
Additional	The Amplitude detector can be used to	Amplitude	Enhancement
Signal Type	automatically insert data markers (e.g. Invalid Data)	Detector	
Input Signals for	based on user-defined criteria This feature originally		
Amplitude	could only apply to a single signal type. Functionality		
Detector	has been added to apply the Amplitude detector on		
(22352)	up to 4 signal types simultaneously.		



Marker Location	Added the ability to include the Marker Location	Marker	Enhancement
(32535)	within the Marker Grid. This now permits the user to	Grid	
	display the Markers' associated channel should		
	channel specific markers be applied.		
	To add the Marker Location:		
	1. Add a Label Column to the Marker Grid.		
	2. Right-click the Label header.		
	3. Select Properties .		
	4. Select Marker Info tab.		
	5. Check the checkbox associated with Display		
	marker location.		
	6. Click OK .		
Normalized	NeuroScore previously presented and exported non-	Spectrum	Enhancement
Power Spectrum	normalized Power Spectrum. Users can now choose	Export	
(30253)	to work with Normalized Power Spectrums within		
	the application and via export options.		
Spectrum	The Spectrum Export feature provides a method to	Spectrum	Fix
Export using FFT	export signal power value using the following	Export	
(30254)	processing methods: FFT, DFT, Periodogram, and		
	Autoregressive Spectrum.		
	When exporting power values using the EET		
	processing method the values were incorrect. The		
	other three processing methods exported correct		
	nower values		
	This has been corrected to for the FFT processing		
	method to export the correct power values.		
Invalid Data	Invalid Data markers could be placed through the	Core	Fix
Marker Data	recording to provide a visual indication of invalid	Software	
Exclusion	data. Invalid Data markers would exclude associated		
(18011)	data from NeuroScore generated Reports. However,		
	these data would not be remove from the invalid		
	sections of data within Marker Grids, Signals Grids,		
	or Spectral Export.		
	This has been corrected to appropriately remove		
	invalid data from being reported within these		
	features.		



Adjust Daylight	NeuroScore Recording Property to Adjust Daylight	Core	Fix
Savings	Savings was not correctly adjusting the data. The	Software	
(32878)	would occur when opening a recording collected		
	prior to Daylight Saving time and then opening it		
	after Daylight Savings time.		
	This has been corrected.		
	Please note a second manifestation of this issue can		
	still be seen if data was recorded in a time zone with		
	Still be seen in data was recorded in a time zone with		
	Daylight Saving enabled		
Video	NeuroScore would incorrectly handle Ponemah	Video	Fix
Synchronization	video files when multiple video sessions were	VIGEO	
(22616)	associated with a single RAW file. This caused video		
(32010)	associated with a singleAw me. This caused video		
	when leaded into NeuroScore		
	This has been corrected.		
Video	Video data would not synchronize with the RAW	Video	Fix
Synchronization	data if the Ponemah file included a period within the		
(28324)	file name.		
	This has been corrected.		
Ponemah File	When running NeuroScore on a Windows 64-bit	Core	Workaround
Format	Operating System, NeuroScore cannot open	Software	
(30258)	Ponemah files if Microsoft Excel (Office) 32-bit is		
	installed.		
	If using a 32-bit version of Microsoft Office, this can		
	be fixed by installing the 64-bit version of Microsoft		
	Office. Alternatively, Microsoft has solved this issue		
	in Microsoft Access Database Engine 2010		
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	Redistributable download. Please contact DSI		
	Redistributable download. Please contact DSI Technical Support for the download location and		



Seizure Report	When working with long dataset that contain many	Core	Workaround
Generation	Spike and Seizure markers, the Seizure report	Software	
(30259)	generated is too large for the underlying database to		
	store between sessions. The Seizure report will		
	generate appropriately during the analysis session,		
	however once the recording is closed (Save and		
	Close) the report will fail to generate upon re-entry		
	into the recording session.		
	The workaround is to use on a smaller subset of the		
	dataset to create the report.		

Feedback and Requests

We encourage you to submit requests or bug reports in order to help us continually improve NeuroScore. This can be done in one of several ways:

- 1. Often when an error occurs, a dialog will be displayed that will allow you to copy important information to the clipboard and e-mail it to DSI.
- 2. The program includes an option under Help | Give Feedback. This can be used to directly send requests to DSI.
- 3. You can contact DSI technical services by phone or e-mail.

DSI Technical Services

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