

## TREADMILL TS FIRMWARE 1.50.1.128.210 to 2014

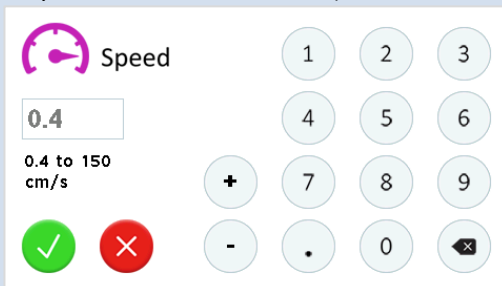
This Change Report highlight only the most relevant improvements/patches applied to a certain release of a version. Other enhancements or minor adjustments may be not detailed for their scarce repercussion in the application.

### Change description

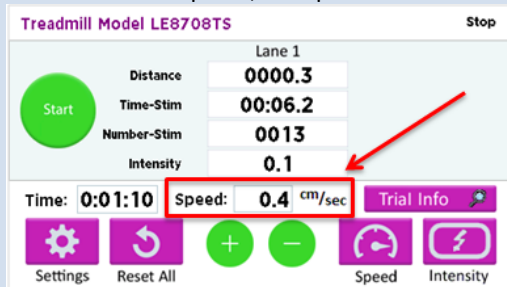
#### NEW speed range including low speeds

Panlab's small animal touchscreen treadmills now offer low speed functions: a new speed range of 0.4 to 150 cm/s allows further flexibility in exercise and fatigue studies and opens its use to new fields of applications (non-rodent animal species, fine motor coordination...).

- Only for the rodents treadmill (0.4 to 150 cm/s)

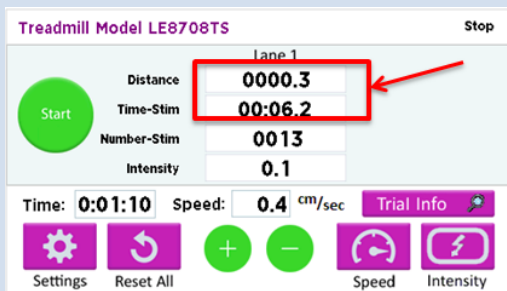


- In the main data panel, the speed shown with decimals is the actual speed applied on the treadmill



Treadmill Model LE8708TS	Data summary				
	Lane 1	Lane 2	Lane 3	Lane 4	Lane 5
Trial Duration (h:mm:ss)	00:01:10				
Stim. Total Time (mm:ss.d)	00:06.2				
Stim. Episode Time (mm:ss.d)	00:00.3				
Stim. Percentage (%)	009				
Number Of Stim. (#)	0013				
Distance Travelled (m)	0000.3				
Belt Speed (cm/s)	0.4				
Stop Condition	MANUAL				

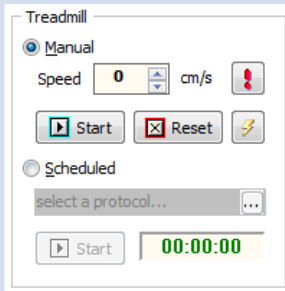
- In the main data panel, the distance and the duration of the stimulation are now displayed with a decimal precision.



Treadmill Model LE8708TS	Data summary				
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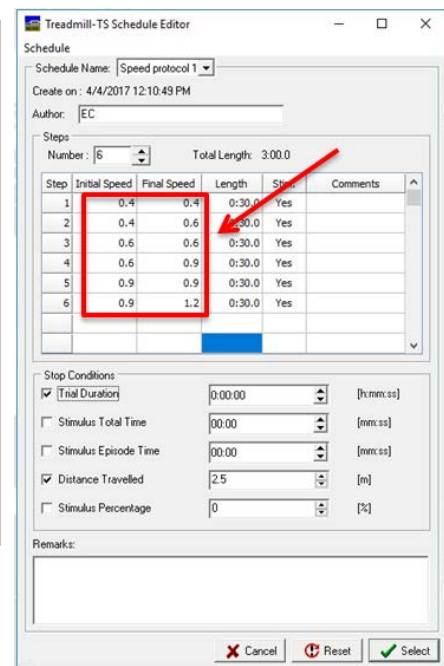
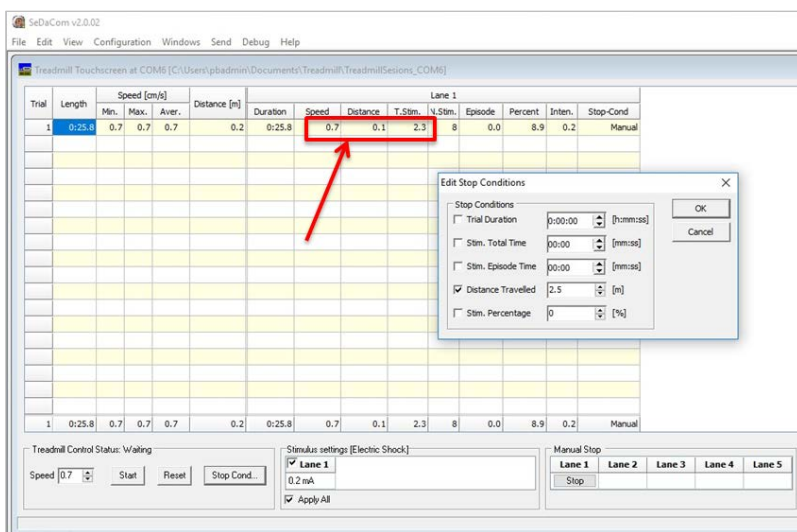
- No change in the speed range for the rabbit treadmill (10 to 80 cm/s)

- For the OxyletPro airtight treadmill, the new low speed range is not available through the METABOLISM software (5 to 150 cm/s)



### NEW SEDACOM software version 2.0.01 release compatible with low speeds

The new speed range is also reflected in the SEDACOM software configurations, runtime panel and reports for all 3 modes available: Front panel mode, PC Single mode and Protocol mode.



### NEW improved time resolution in the counting of received shocks

- Higher time resolution in the shock counting: the system is now able to count the shocks received by the animals that are shorter than 0.3 s.
- There is no change in the number of shocks received by the animal.
- There is no change in the way the system counts the air puff stimulus.





**WARNING:**

- The **number of shock reported** after the upgrade **will be different** than the number of shock reported before the upgrade since this counting now includes the shock with durations shorter than 0.3s.
- **We recommend to not make the firmware upgrade in the middle of an experiment.**

**Reinforcement of the robustness of the treadmill motor against atypical stall.**

- Minor change in the motor step settings for removing the possibility of stall that may occur if the user sets speed protocols with very high speed range variation (from 5 to 150) in a short interval of time (1 sec).



**Reinforcement of the robustness of the generation of the shock provided in any working conditions.**

- Minor change on the shock board settings for correcting the temporal and random “blockage” of a bar when the control unit is switched on during more than 3-4 hours without been used with animals.



**New treadmill manufacturing settings information (technical support utility).**

The information panel of the touchscreen treadmill is now provided with the following new information:

- Motor serial number
- Motor strength configuration (%)

This information allows an easy/faster checking of the motor settings by our technicians in the context of a technical support request.

Treadmill Model LE8708TS

**Panlab** | **HA** Harvard Apparatus

MODEL TYPE:	Treadmill Model LE8708TS
Device Firmware:	1.55.1.428.214
Serial Number:	2416217
Number of lanes:	1
Motor:	258160452 - (45 %)