

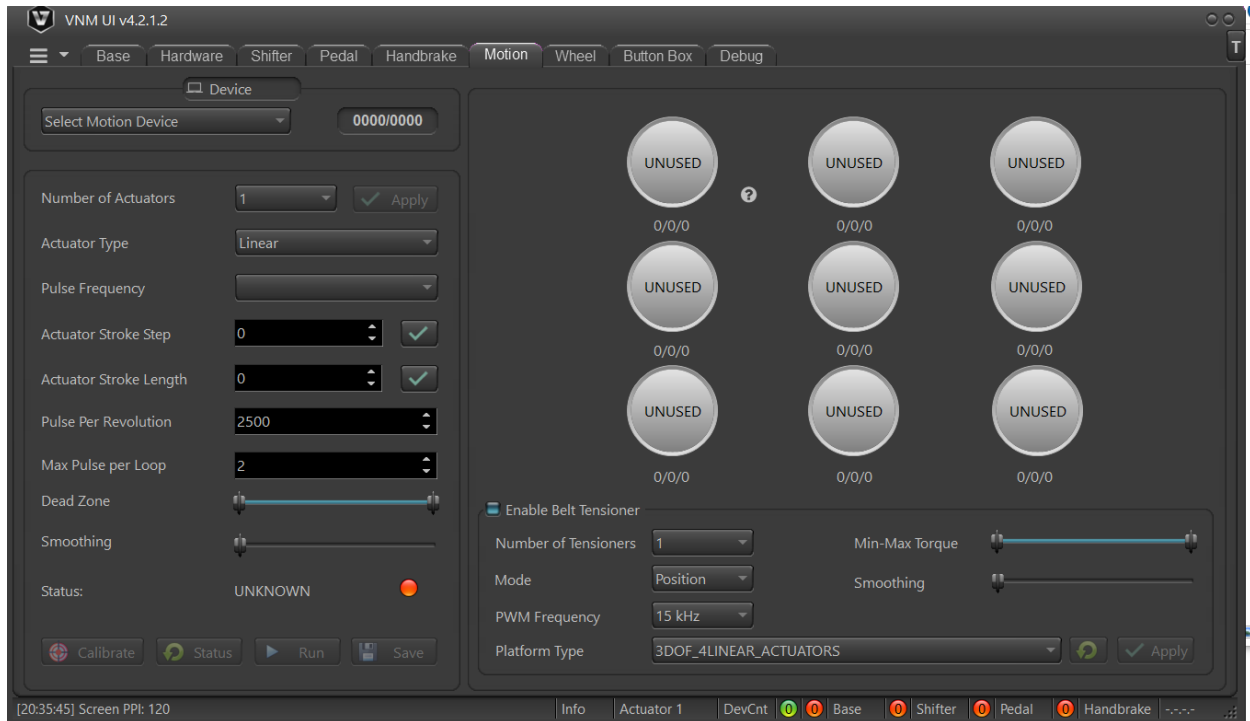


VNM SIMULATION .,JSC

VNM Motion System and Sim-Motion Software Guide

1. Download VNM UI

Download [VNM UI](#) and open it (add exception for VNM UI if computer detects virus).
Click tab motion:



In Number of actuators: Choose exactly how many actuator in your motion system.

In Pulse Frequency: Choose whatever frequency as your liking. **We recommend you should try from 100-250 at the beginning.** After being familiar with motion system, you can choose higher frequency. The higher pulse frequency the higher speed of actuator.

Smoothing to make the motion system work smoother. The higher value, the higher smoothness.

Number pulse per loop is the number of pulses you want to send to actuator each 1ms. The higher value the faster of actuator's speed.

Actuator stroke length: choose each actuator to config the length of stroke based on your system.

Other parameters should let it be as default of VNM Motion System.



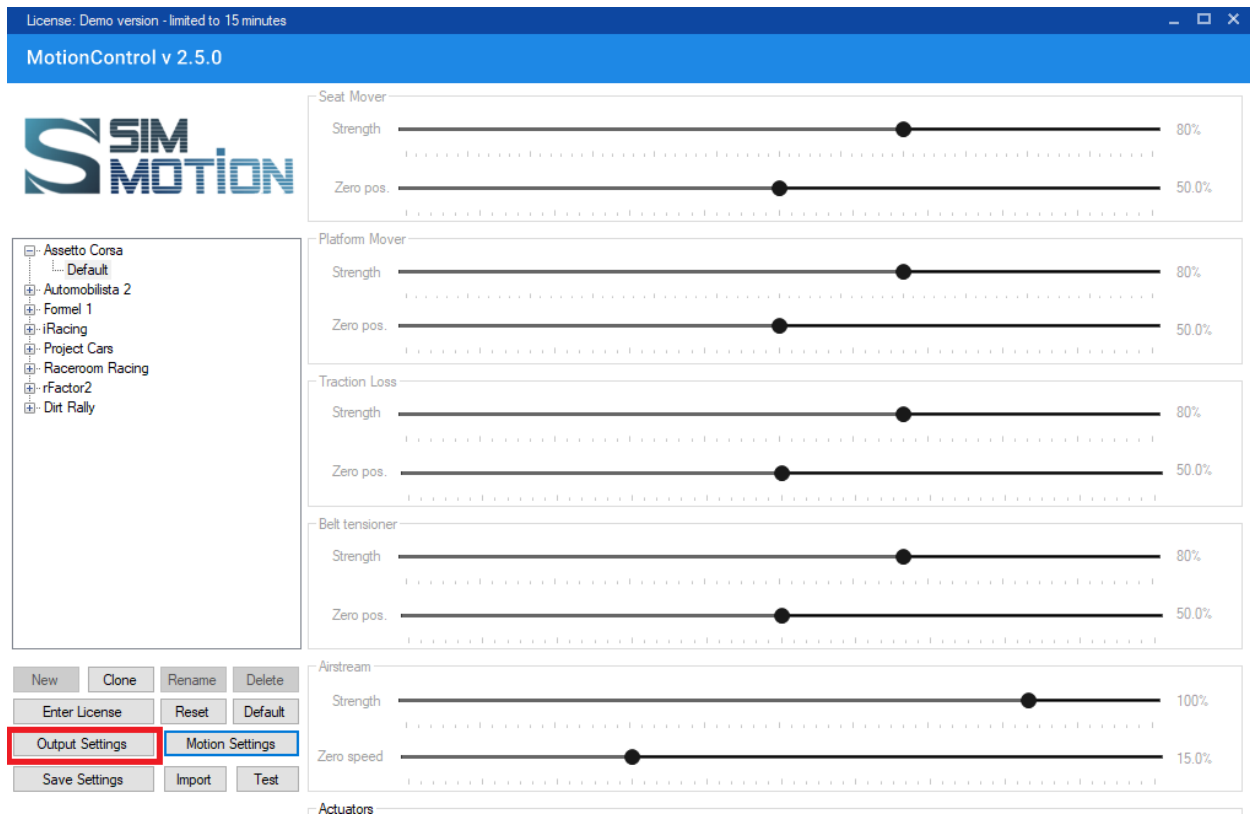
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2. Sim-Motion Configuration

Download [Sim-motion Software](#)

2.1. Setup Ouput

Click output (if you don't see, double click to the top bar)



Choose number of actuators, choose “USB Controller” in Controller 1



Assign port to actuator front left – port 4; front right – port 1; rear left – port 3; rear right – port 2.

Output Settings

Motion Systems

Platform mover

4 actuators

Seat mover

No seatmover

Traction loss

No tractionloss

Belt tensioner

No belt tensioner

Air stream

No air stream

Additional actuators

None

Motion Controller

Controller 1

USB Controller

COM3

Controller 2

Thanos Controller

COM3

Config

Port 1

Port 2

Port 3

Port 4

Port 5

Port 6

Port 7

Controller 3

Controller 4

Actuator	Status
Platform - front left	Cntrl. 1 Port 4
Platform - front right	Cntrl. 1 Port 1
Platform - rear left	Cntrl. 1 Port 3
Platform - rear right	Cntrl. 1 Port 2

Reset

Save



The screenshot shows the "Output Settings" window. Under "Motion Systems", there are dropdown menus for Platform mover (4 actuators), Seat mover (No seatmover), Traction loss (No tractionloss), Belt tensioner (No belt tensioner), Air stream (No air stream), and Additional actuators (None). Under "Motion Controller", there are four controller slots. Controller 1 has two options: USB Controller and COM3. Below the controllers, there is a list of actuators: Platform - front right, Platform - rear right, Platform - rear left, and Platform - front left, which are highlighted with a red box. Below these are Port 5, Port 6, and Port 7. On the right, there is a table showing Actuator names and their corresponding Statuses.

Actuator	Status
Platform - front left	Cntrl. 1 Port 4
Platform - front right	Cntrl. 1 Port 1
Platform - rear left	Cntrl. 1 Port 3
Platform - rear right	Cntrl. 1 Port 2

At the bottom right, there are "Reset" and "Save" buttons.

Go to motion settings, click on each force item and adjust parameters as your liking (pls read README.txt of sim-motion software to understand the parametters)



3. Test

Click on test button to test your motion system.



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New	Clone	Rename	Delete	Airstream	
Enter License		Reset	Default	Strength	<input type="range"/>
Output Settings		Motion Settings		Zero speed	<input type="range"/>
Save Settings		Import	Test	Actuators	