

Motion controller

Position table

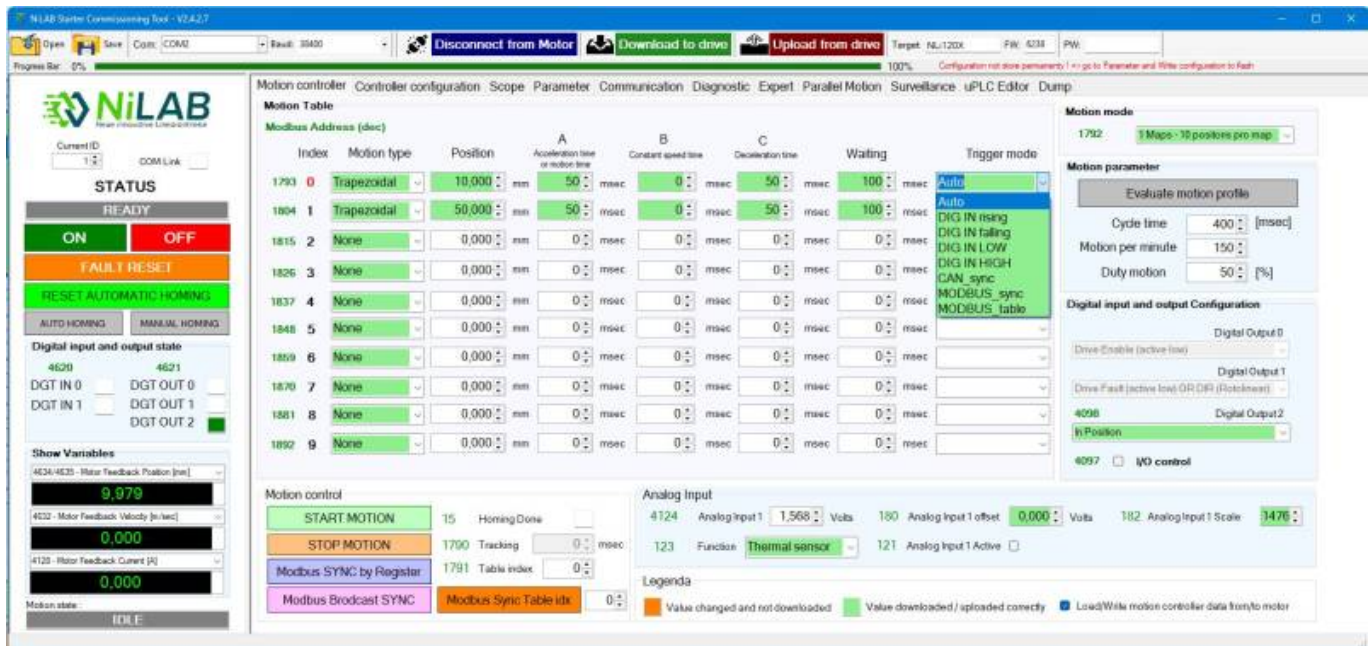
The motion controller window is used to specify the motion sequences. It is based on 10 row tables. Every row configures the motion task with these parameters:

1. Motion type: trapezoidal, triangular, polinomial, sinusoidal or force
2. Target position
3. Acceleration, deceleration and constant speed time depending on the motion profile used
4. Waiting time
5. Trigger mode: automatic, rising edge, falling edge, high and low level of trigger input (Digital input 1)

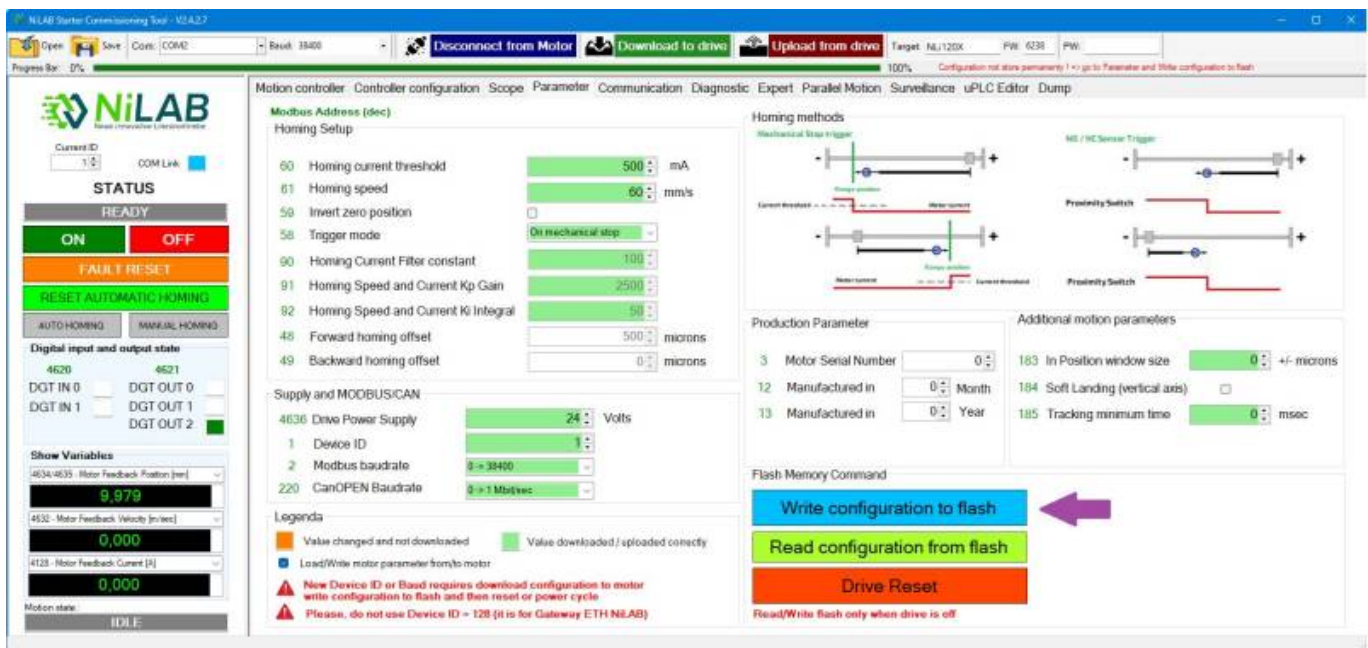
The screenshots show the NiLAB Motion Controller software interface. The main window displays a 'Motion Table' with 10 rows. Each row is configured with the following parameters:

Index	Motion type	Position	Acceleration time or motion time	Constant speed time	Deceleration time	Waiting	Trigger mode
1793 0	Trapezoidal	10,000	50	0	50	100	Auto
1804 1	Trapezoidal	50,000	50	0	50	100	Auto
1815 2	None	0,000	0	0	0	0	
1826 3	None	0,000	0	0	0	0	
1837 4	None	0,000	0	0	0	0	
1848 5	None	0,000	0	0	0	0	
1859 6	None	0,000	0	0	0	0	
1870 7	None	0,000	0	0	0	0	
1881 8	None	0,000	0	0	0	0	
1892 9	None	0,000	0	0	0	0	

The interface also includes a 'Motion mode' dropdown (set to '1 Maps - 10 positions per map'), 'Motion parameter' settings (Cycle time: 400 [msec], Motion per minute: 150, Duty motion: 50 [%]), and 'Digital input and output Configuration'.



PLEASE IN ORDER TO STORE PERMANENTLY THE CONFIGURATION - PRESS THE WRITE CONFIGURATION TO FLASH



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Last update: 2025/11/19 13:31

