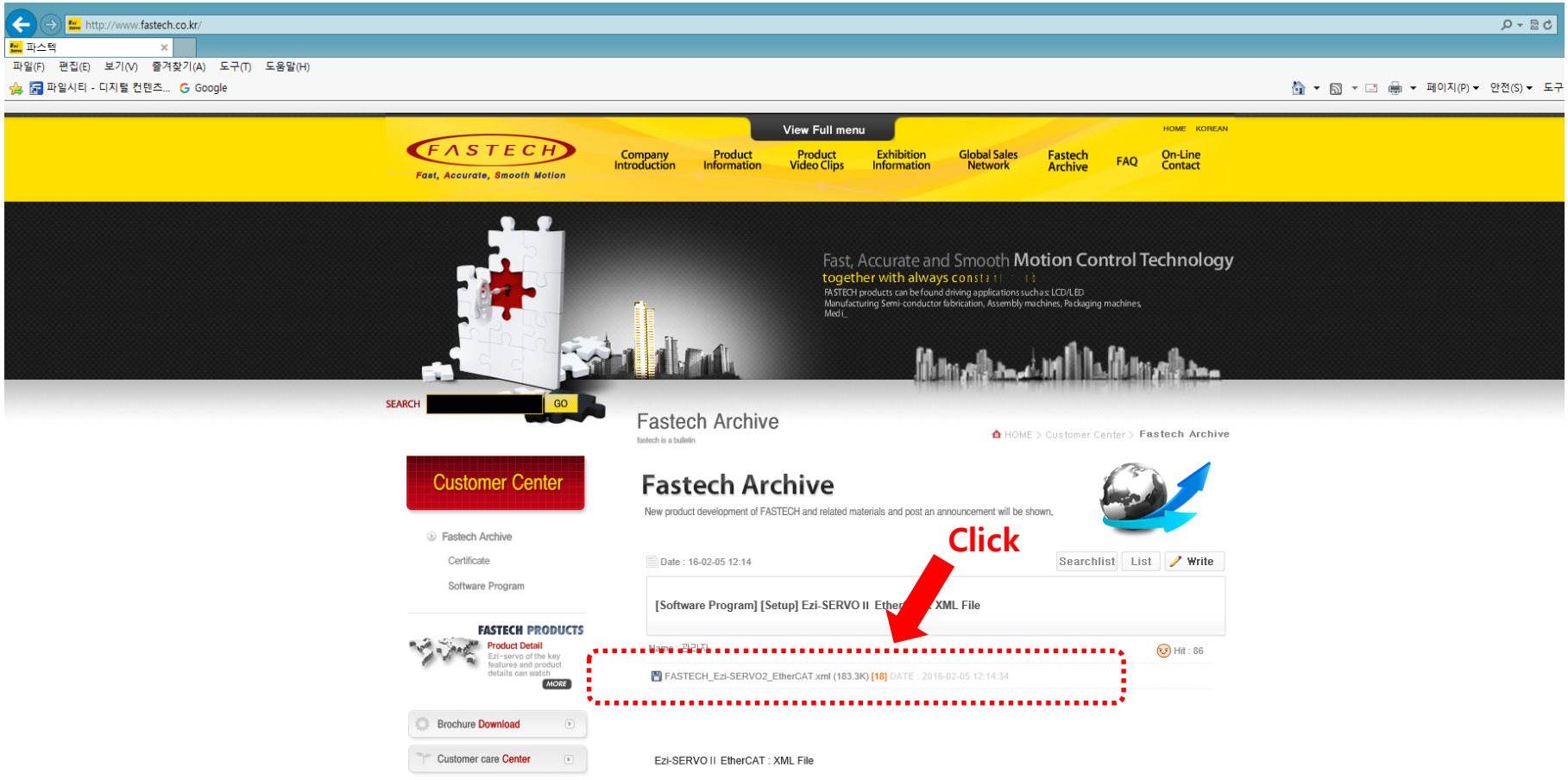
FASTECH
Fast, Accurate, Smooth Motion Control

Ezi-SERVOII-EC Operation Manual
< Advantech 'PCI-1203' Master >

Ezi-SERVO®
Closed Loop Stepping System

▣ Ezi-SERVOII-EC Material Download [ESI(XML)]

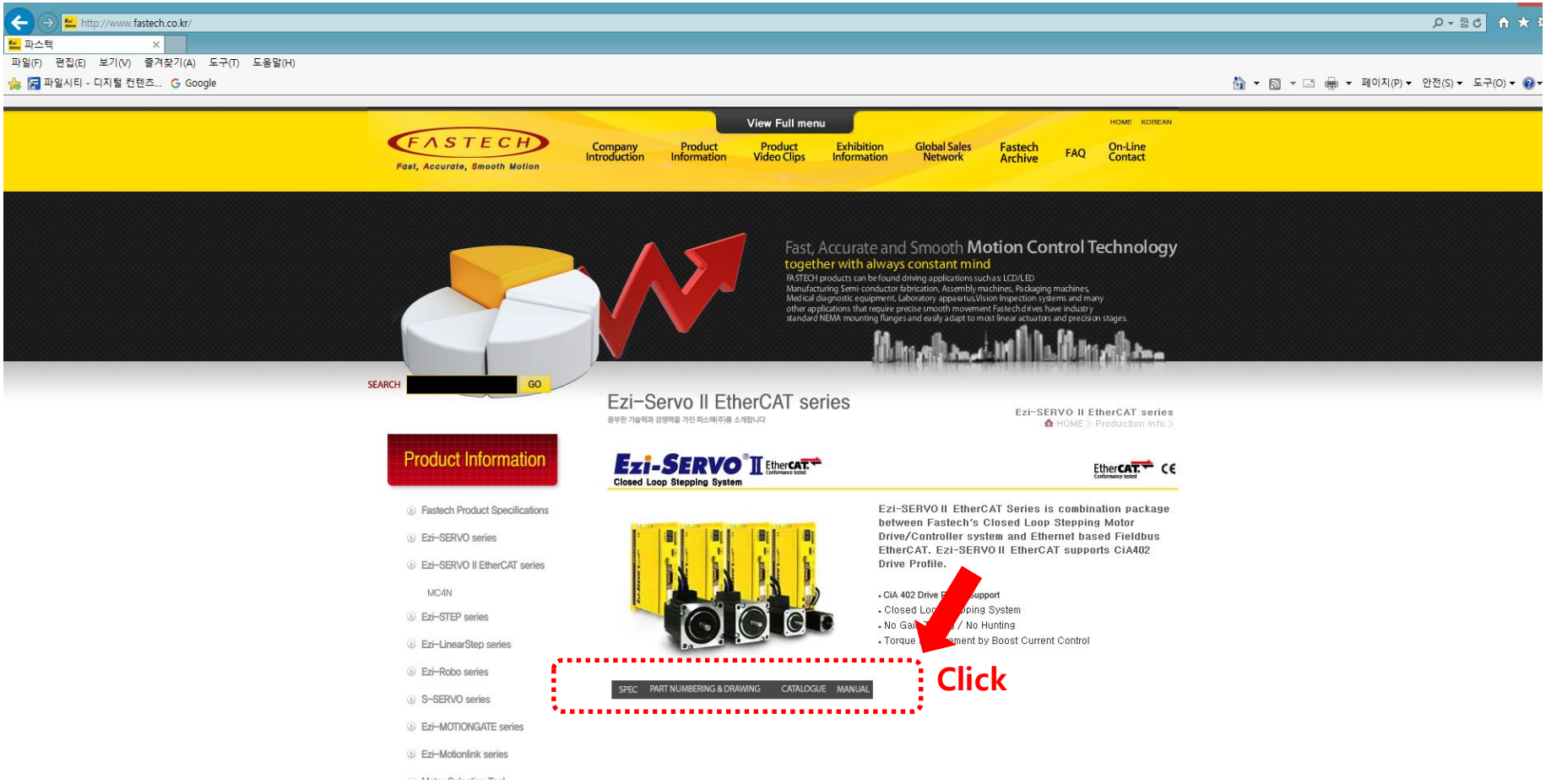
❑ ESI(XML) : Download from www.fastech.co.kr website [Archive]



Ezi-SERVO®
Closed Loop Stepping System

▣ Ezi-SERVOII-EC Material Download [Manual]

❑ **Manual : Download from** www.fastech.co.kr **website [Product Information]**



Ezi-SERVO®
Closed Loop Stepping System

▣ Save ESI(XML) - Registration

❑ On-Line Scan Method : Possible to get all information automatically from Slave without an individual ESI file,

❑ Off-Line Scan Method : This method enables Configuration process for Slave with ESI file of information,

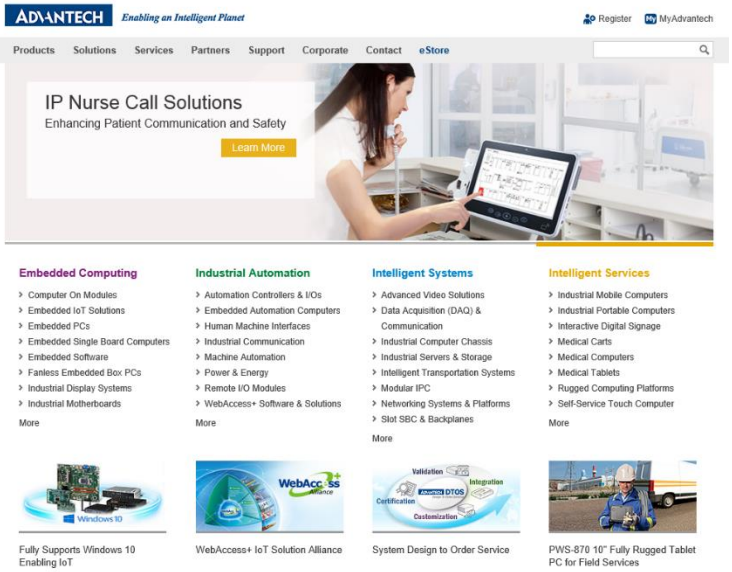
❑ ADVANTECH's PCI-1203 utilizes On-Line Scan Method so there is no necessity to register ESI file.

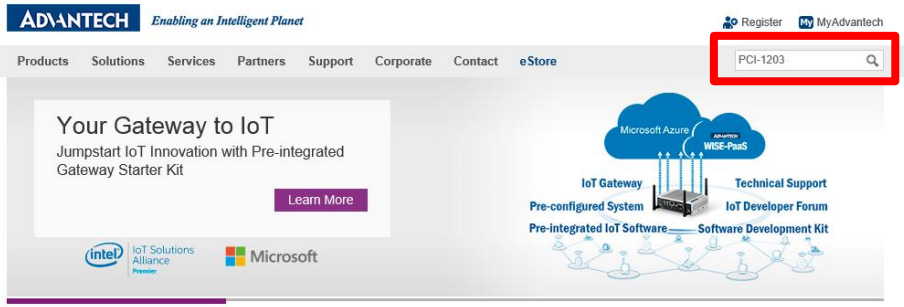
❑ Also PDO Configuration is already fixed onto PCI-1203 Master so User is not able to change PDO Mapping (most of customers use Common Motion API Layer than EtherCAT API Layer)

❑ Most of PC Based customer already recognize API Layer well and PCI-1203 also knows this method so even customer is not fully understanding EtherCAT Protocol, they can utilize product and it is one of the advantage of PCI-1203.

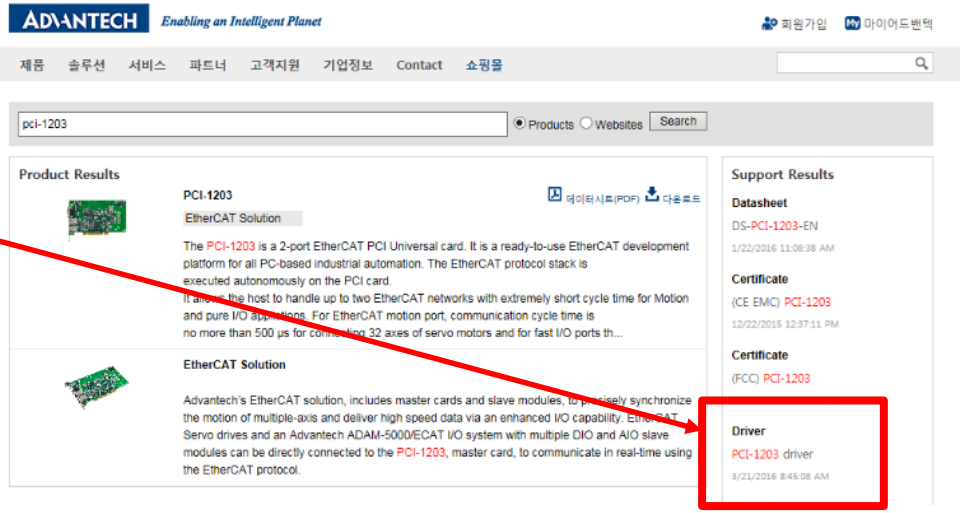
Program Installation

- Access to www.advantech.co.kr website and input PCI-1203 then search



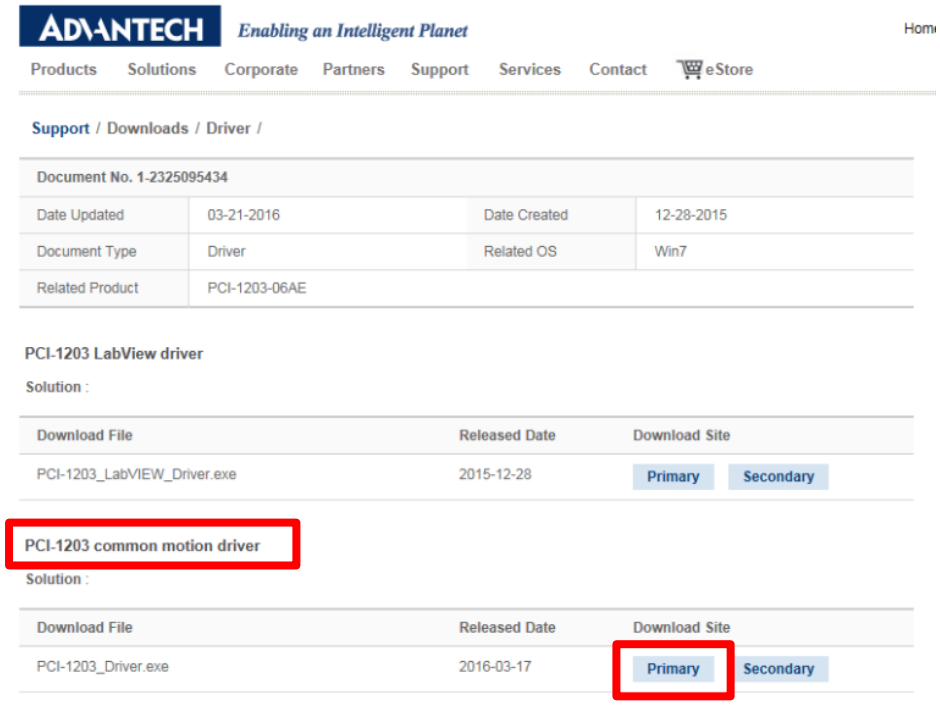


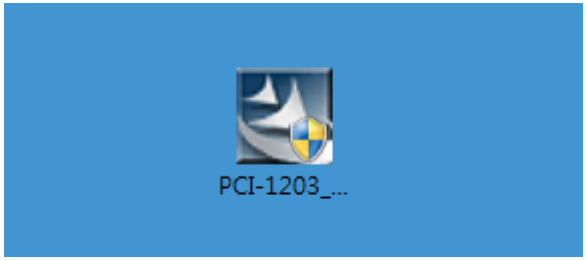
- Select PCI-1203 Drive Program



▣ Program Installation

❑ Select PCI-1203 Common Motion Driver program and get download thru Primary Download Site.

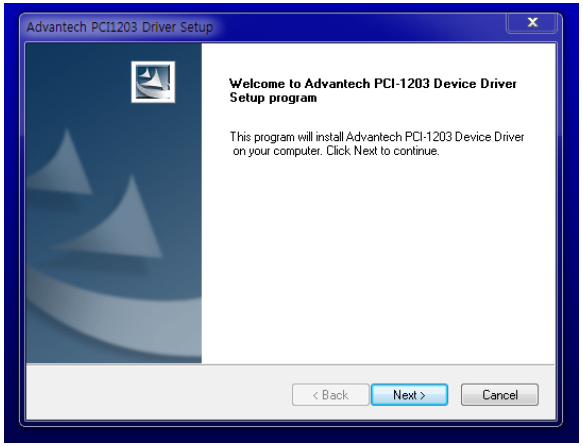


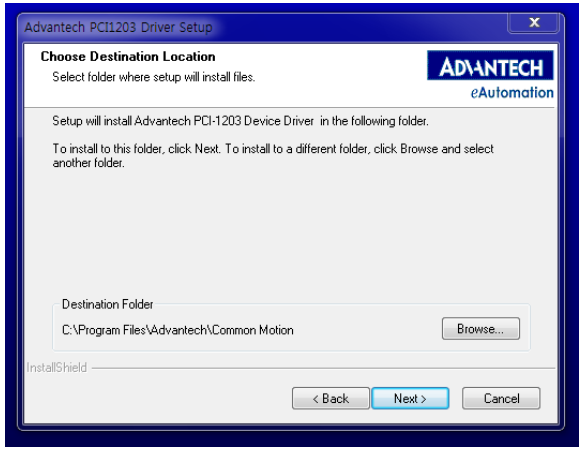


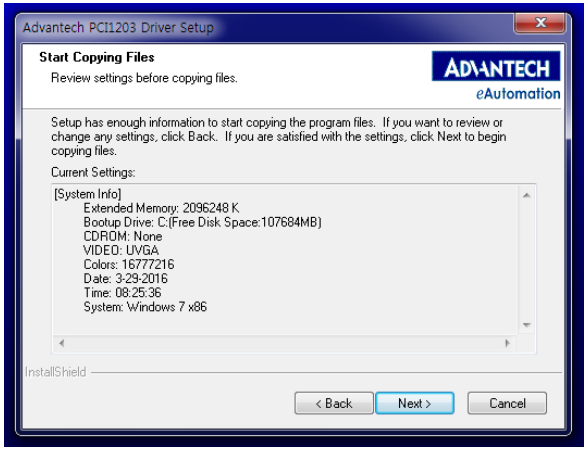
❑ Execute Download and PCI-1203 execution icon will be pop-up at main screen.

▣ Program Installation

❑ Execute PCI-1203 Driver Set Up program and it is for Windows Vista 64bit





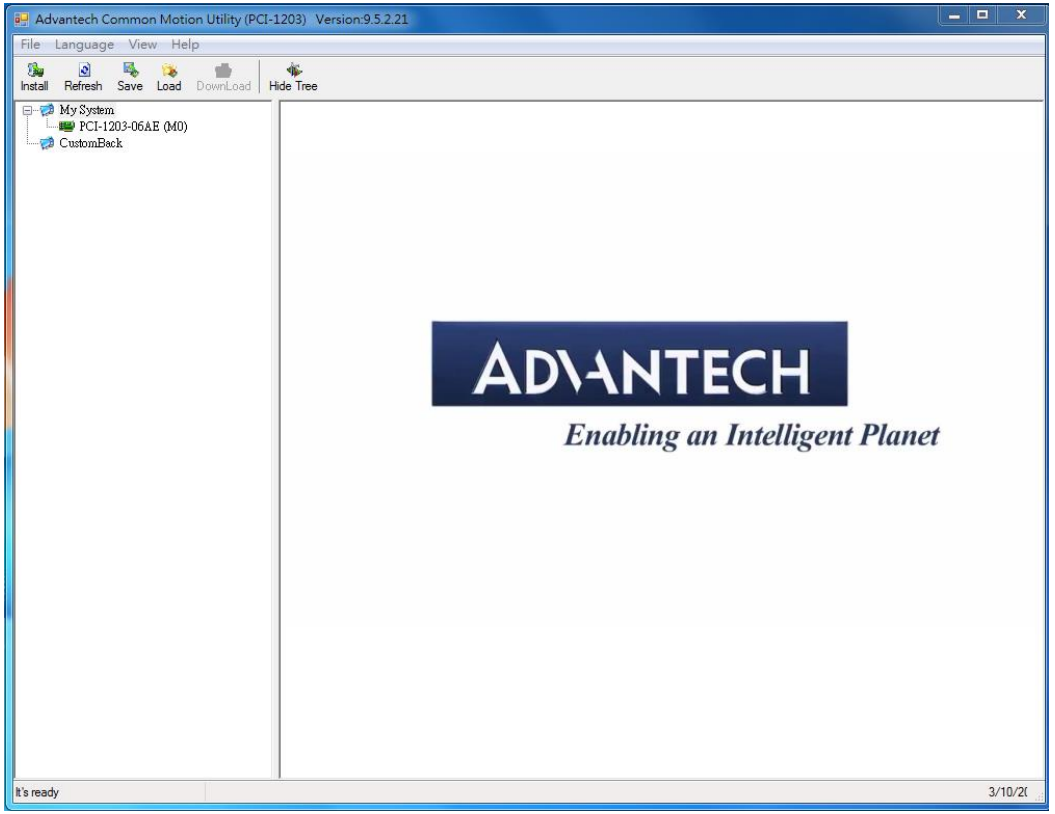


❑ Need to check “Finish” and click to complete

▣ Program Operation

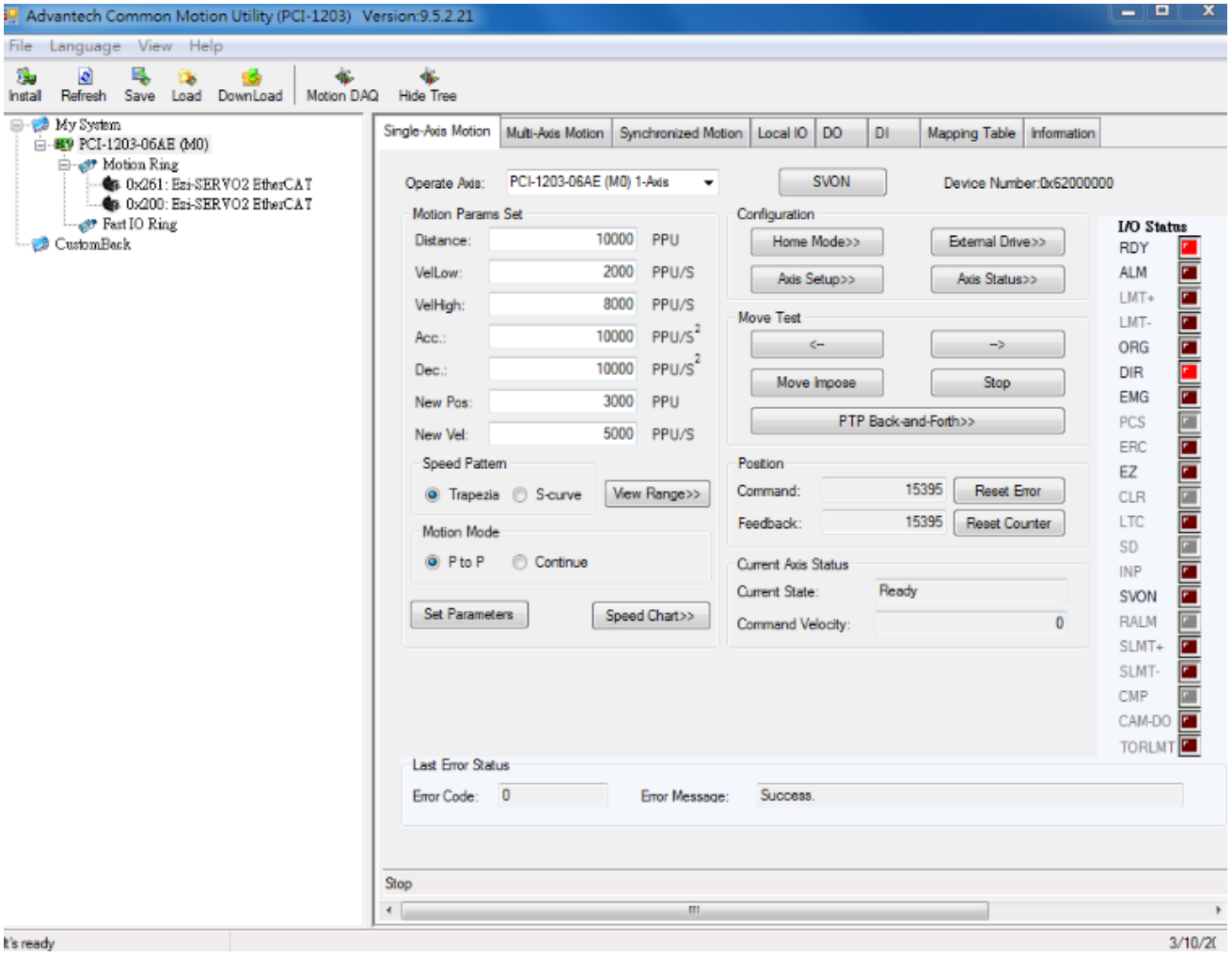
❑ Execute Common Motion Utility (PCI-1203) program.

❑ After implementation, Loading program will be Showing up.



▣ Program Operation

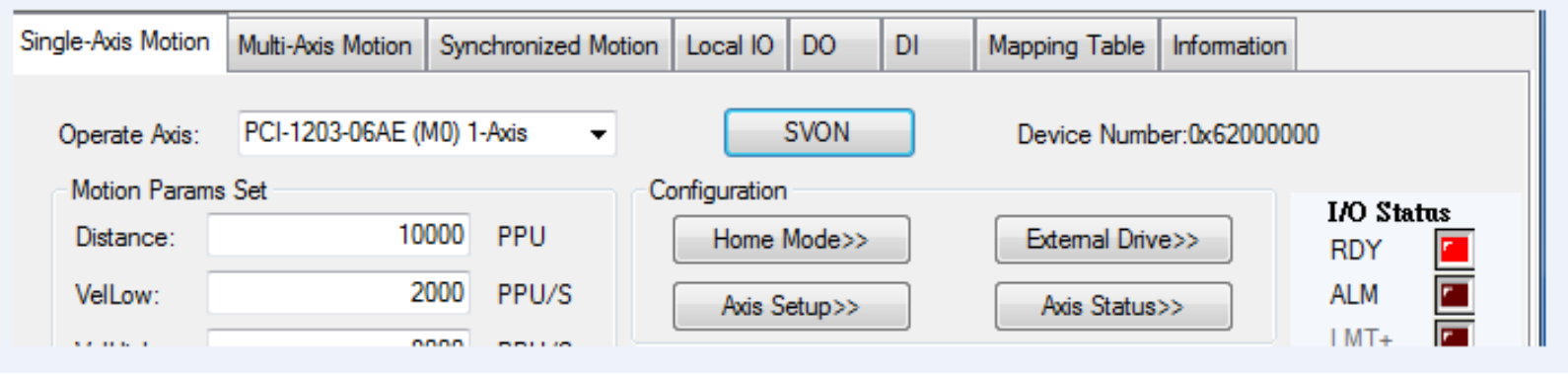
❑ This window enables to execute various functions from Master (PCI-1203-06AE from left side of Tree)

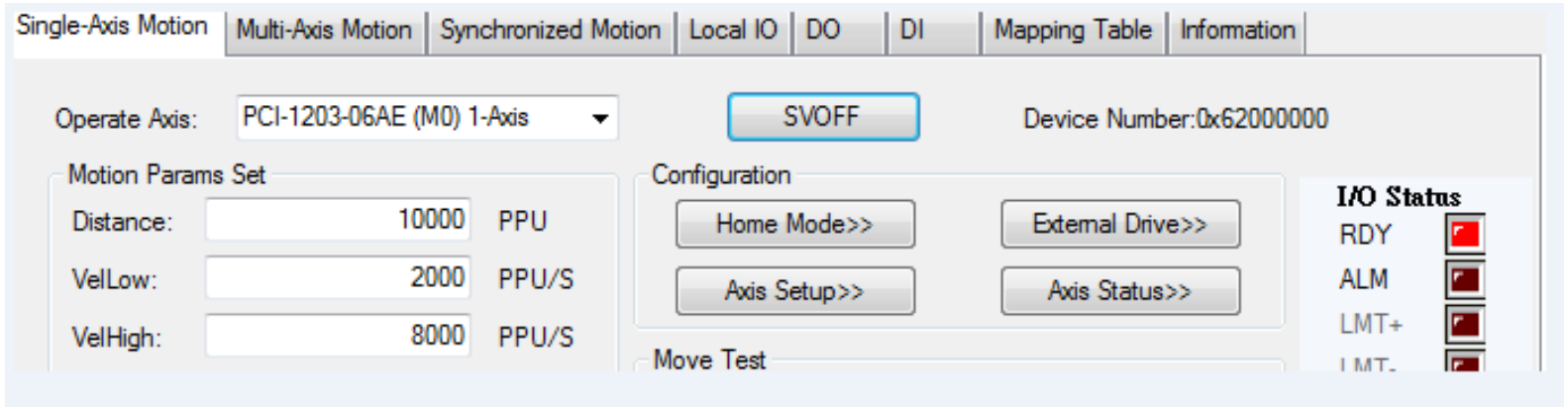


Ezi-SERVO®
Closed Loop Stepping System

▣ Program Operation

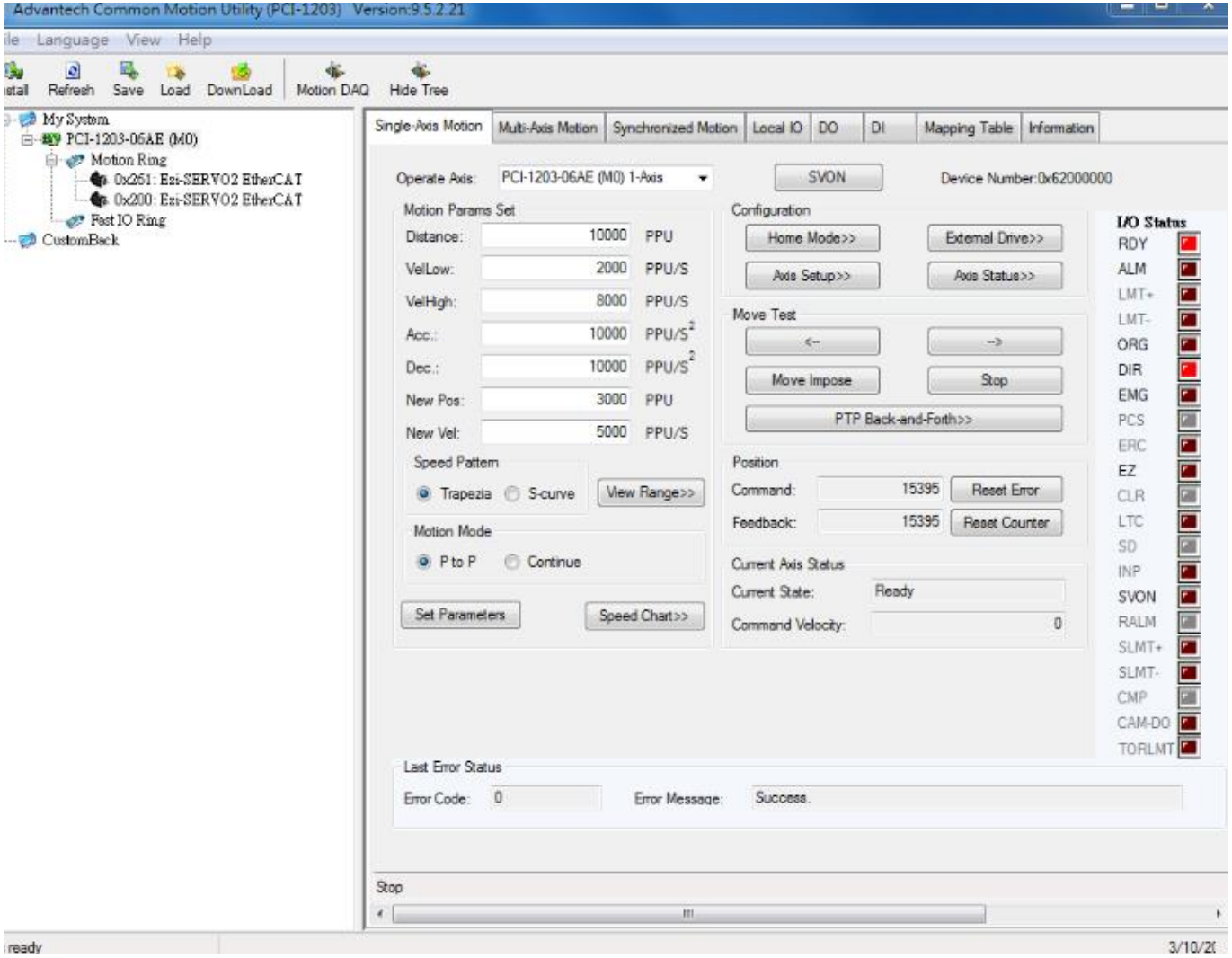
❑ Execute SVON/ / SVOFF button to click button.





▣ Program Operation

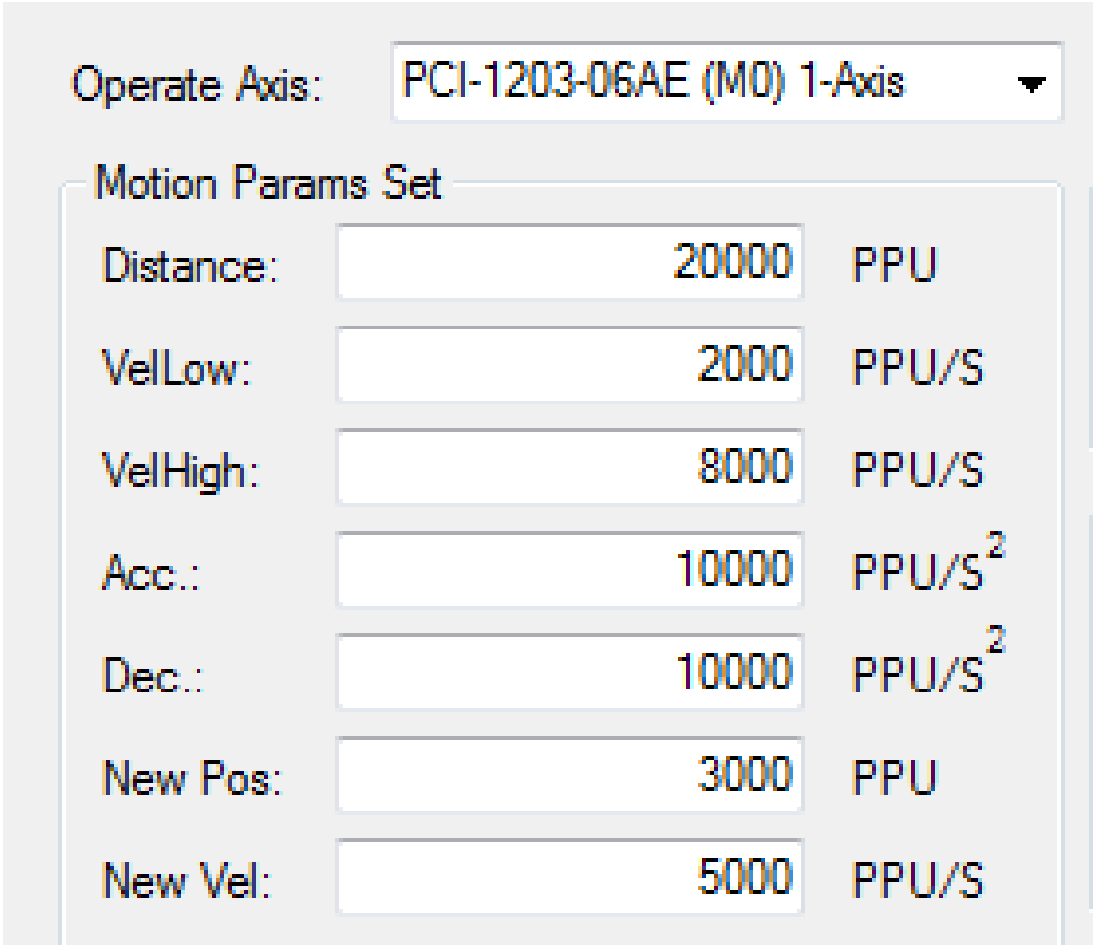
❑ Basic GUI of Single-Axis Motion is as follows



Ezi-SERVO®
Closed Loop Stepping System

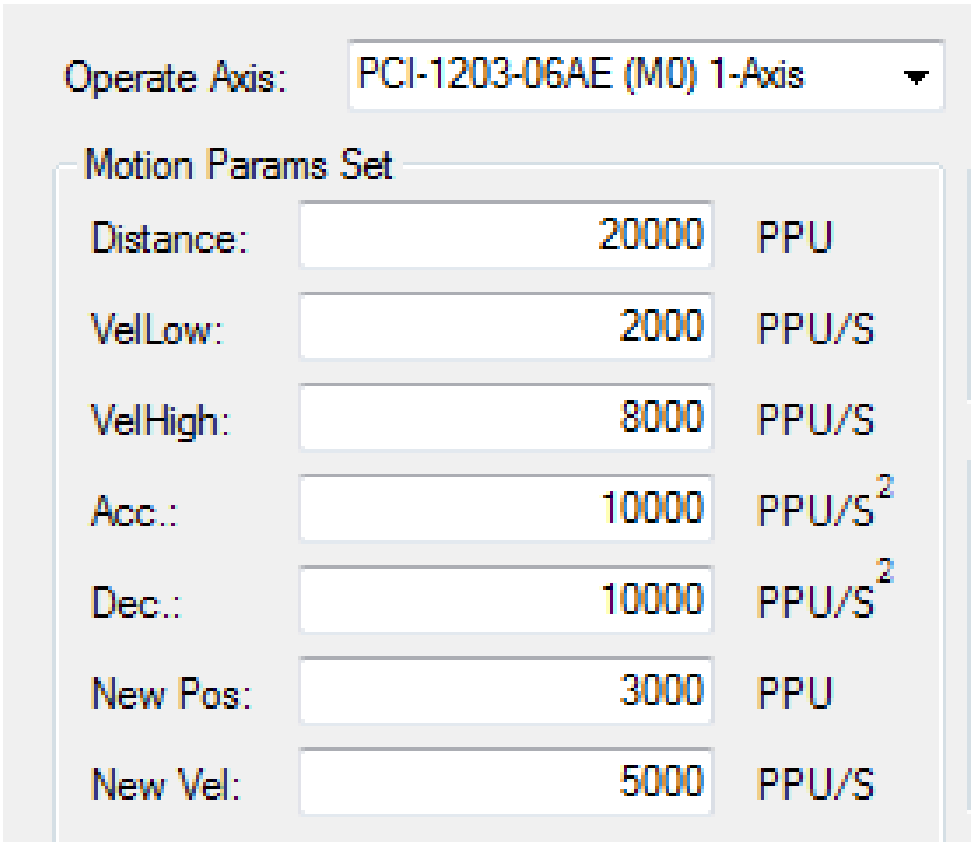
▣ Program Operation

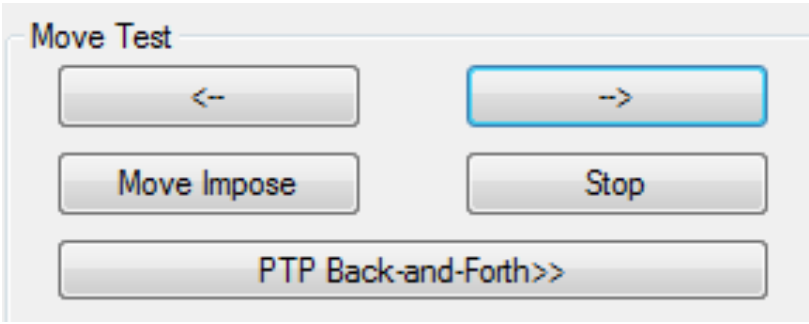
❑ **Moving distance, Velocity, Acc/Dec and Position information can be written thru basic setting.**



▣ Program Operation

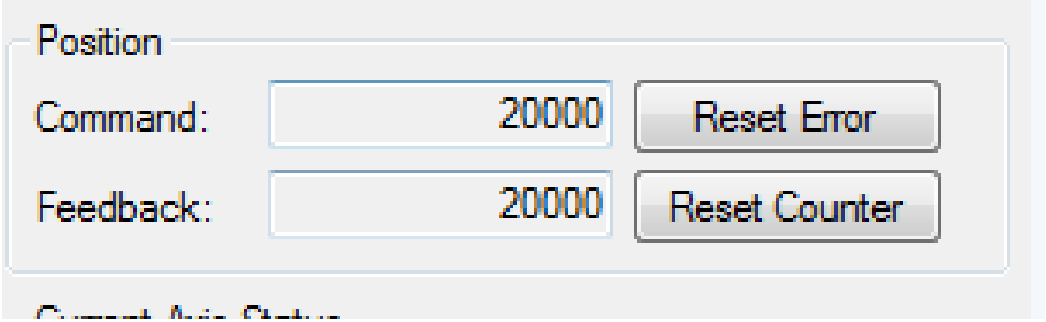
❑ For example, if you set basic setting as values as follows then implement Move Test, can check actual position nvalue and also available to reset thru Reset Counter to make 0.



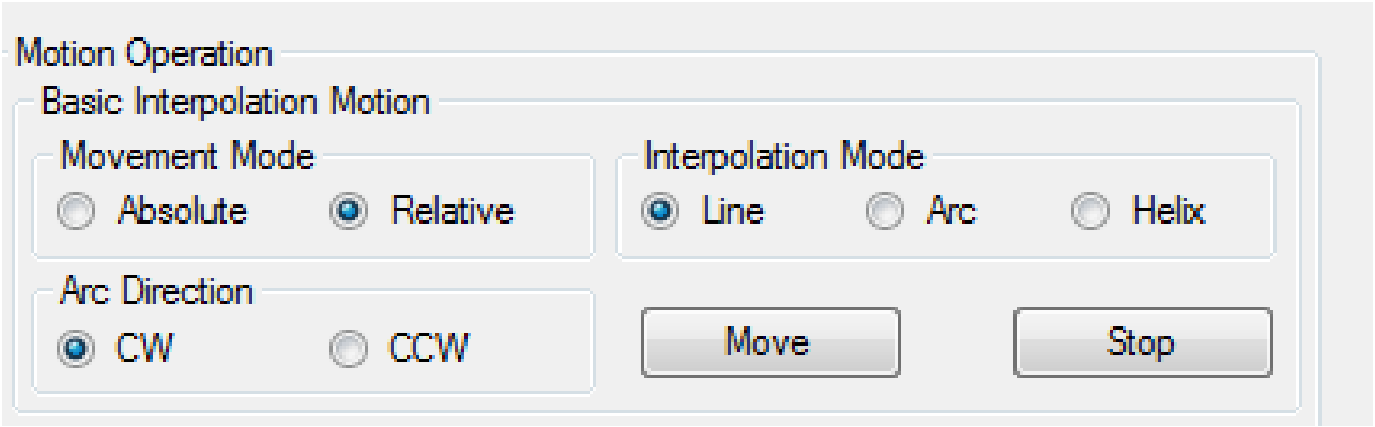


▣ Program Operation

❑ For example, can set basic setting as values as below then implement Move Test. And possible to check actual Position Value. Also reset thru Reset Counter.



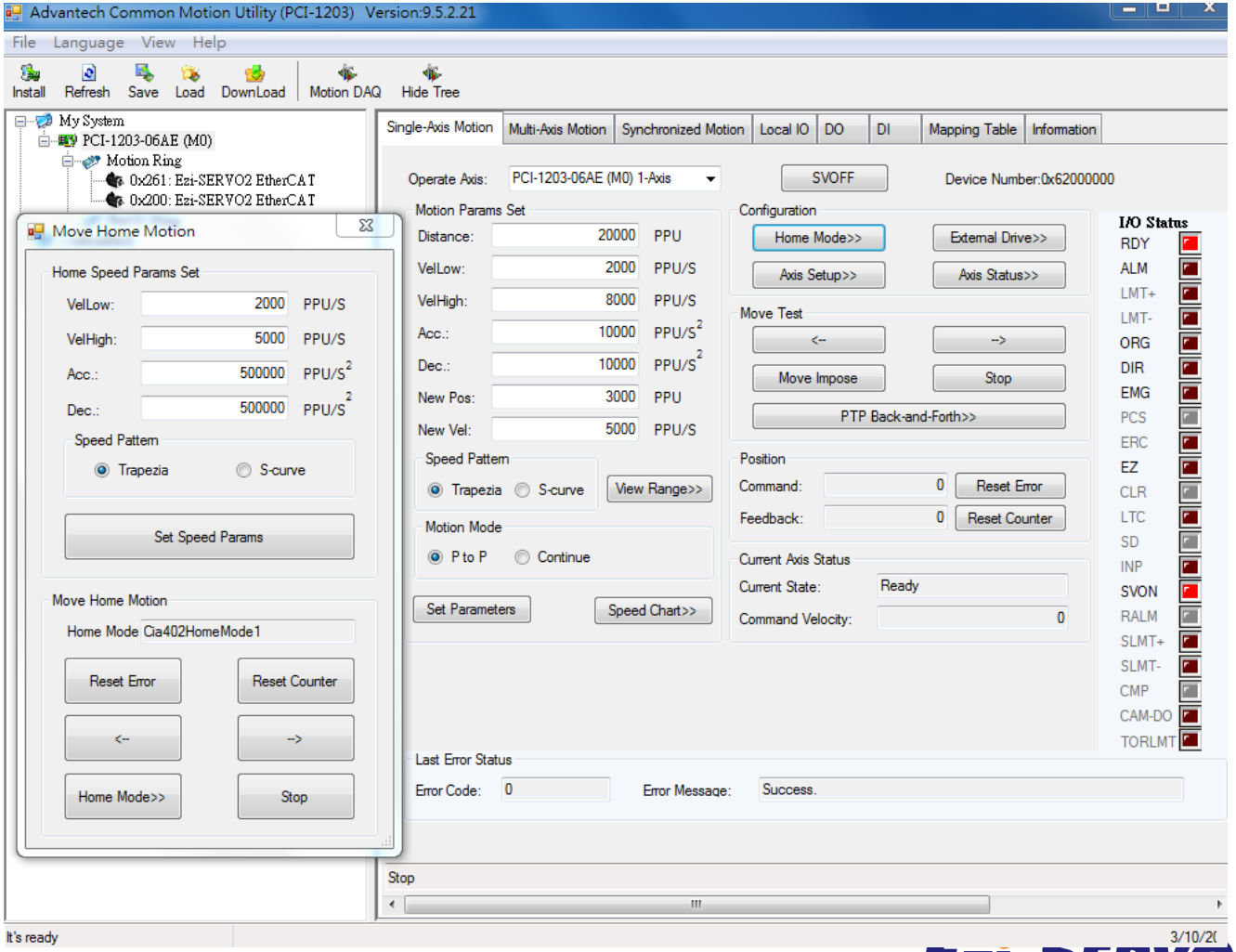
❑ Others for example, operation direction, Absolute/Relative setting can be done by Motion Operation.



▣ Program Operation

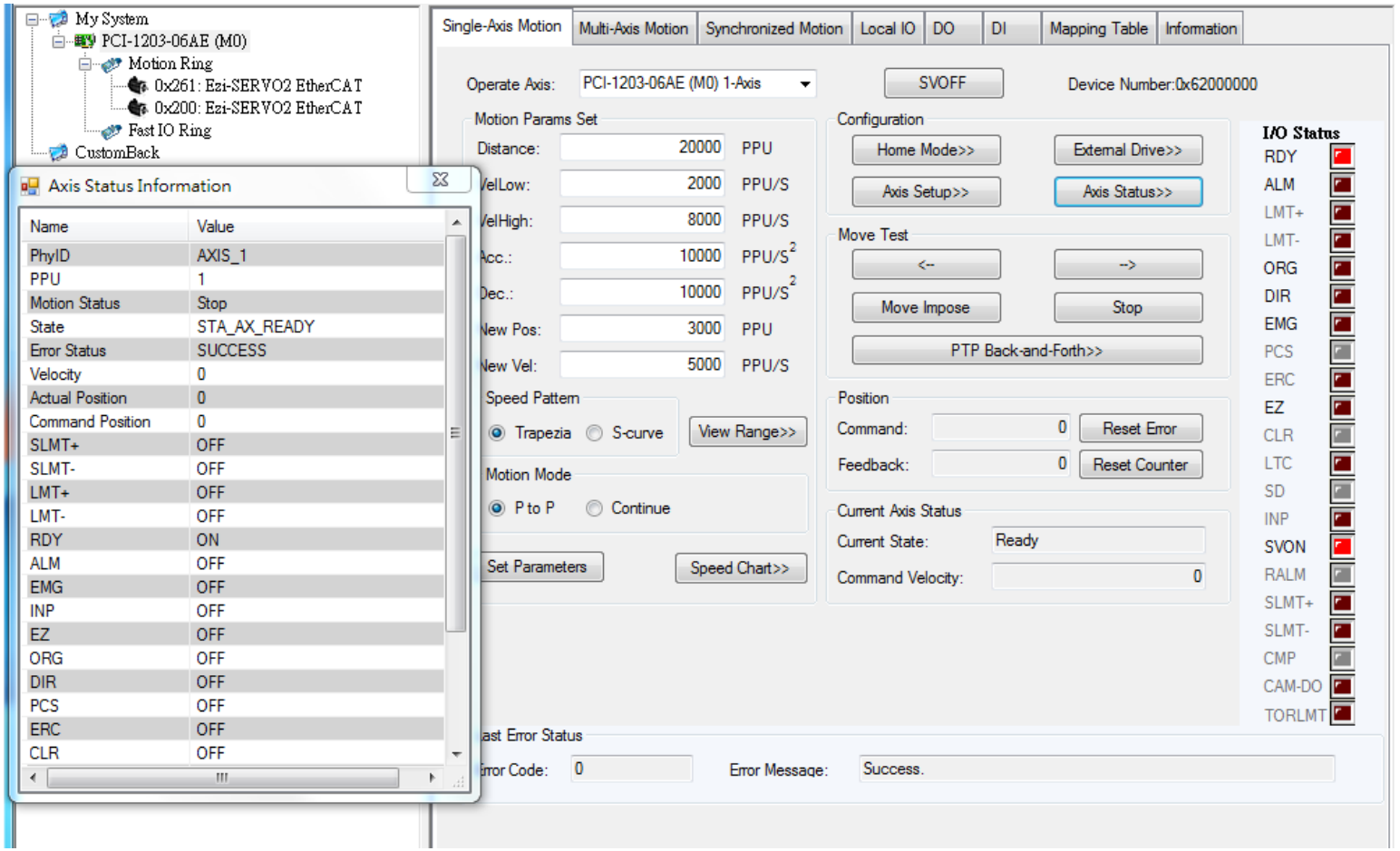
❑ Able to operate by Home Mode at Configuration.

❑ If clicks Home Mode, individual Home Mode Setting window Pops-up.



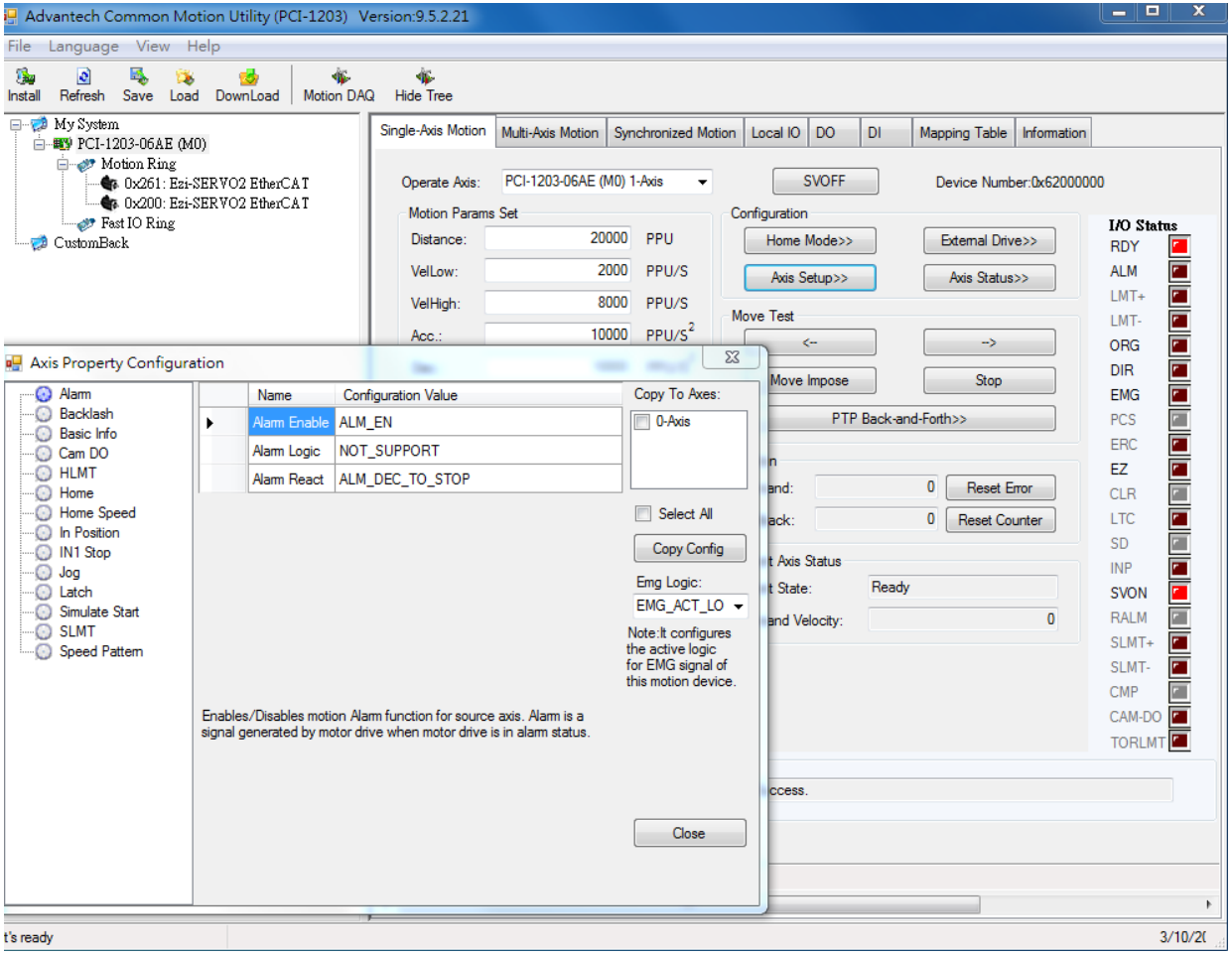
▣ Program Operation

❑ Able to check Axis information to select Axis Status from Configuration.



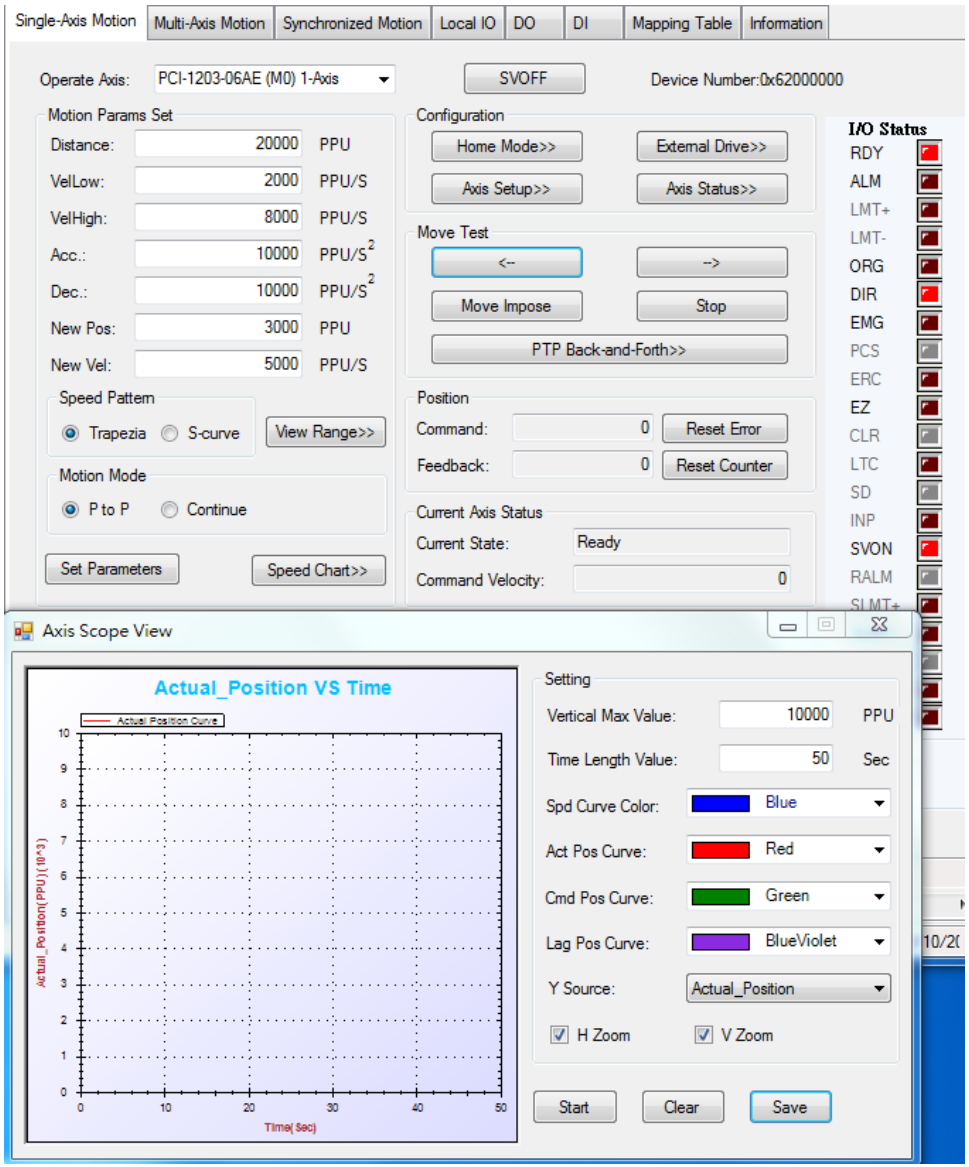
▣ Program Operation

❑ **Able to check current moving axis of information thru Axis Set Up at Configuration. For example, Alarm, Backlash, Home, Jog and other functions plus Set up information of each axis to adjust.**



Ezi-SERVO®
Closed Loop Stepping System

▣ Program Operation

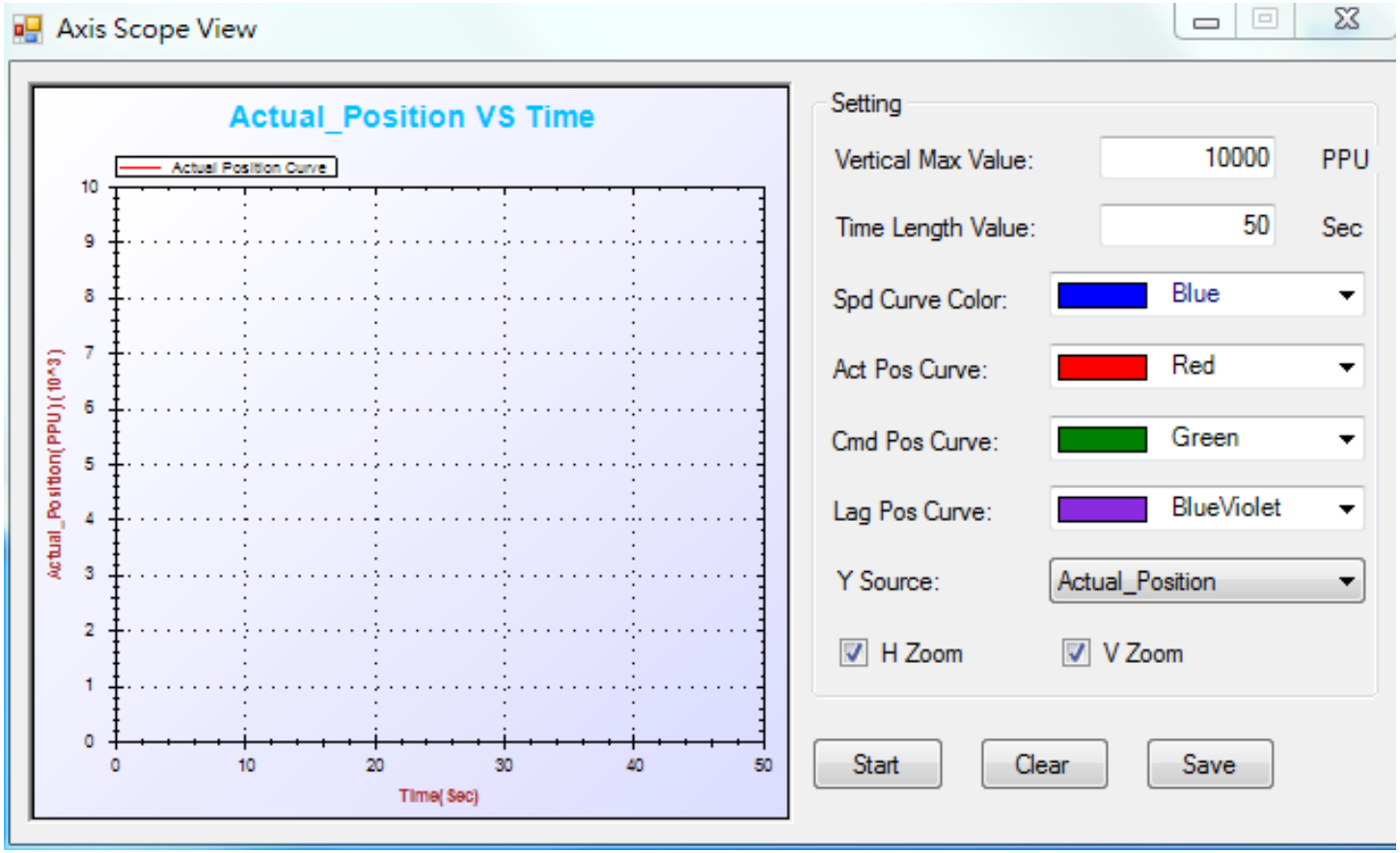


❑ Has Scope View function to visualize each axis of scope by Speed Chart function. And available to select different color and items at each axis.

Ezi-SERVO®
Closed Loop Stepping System

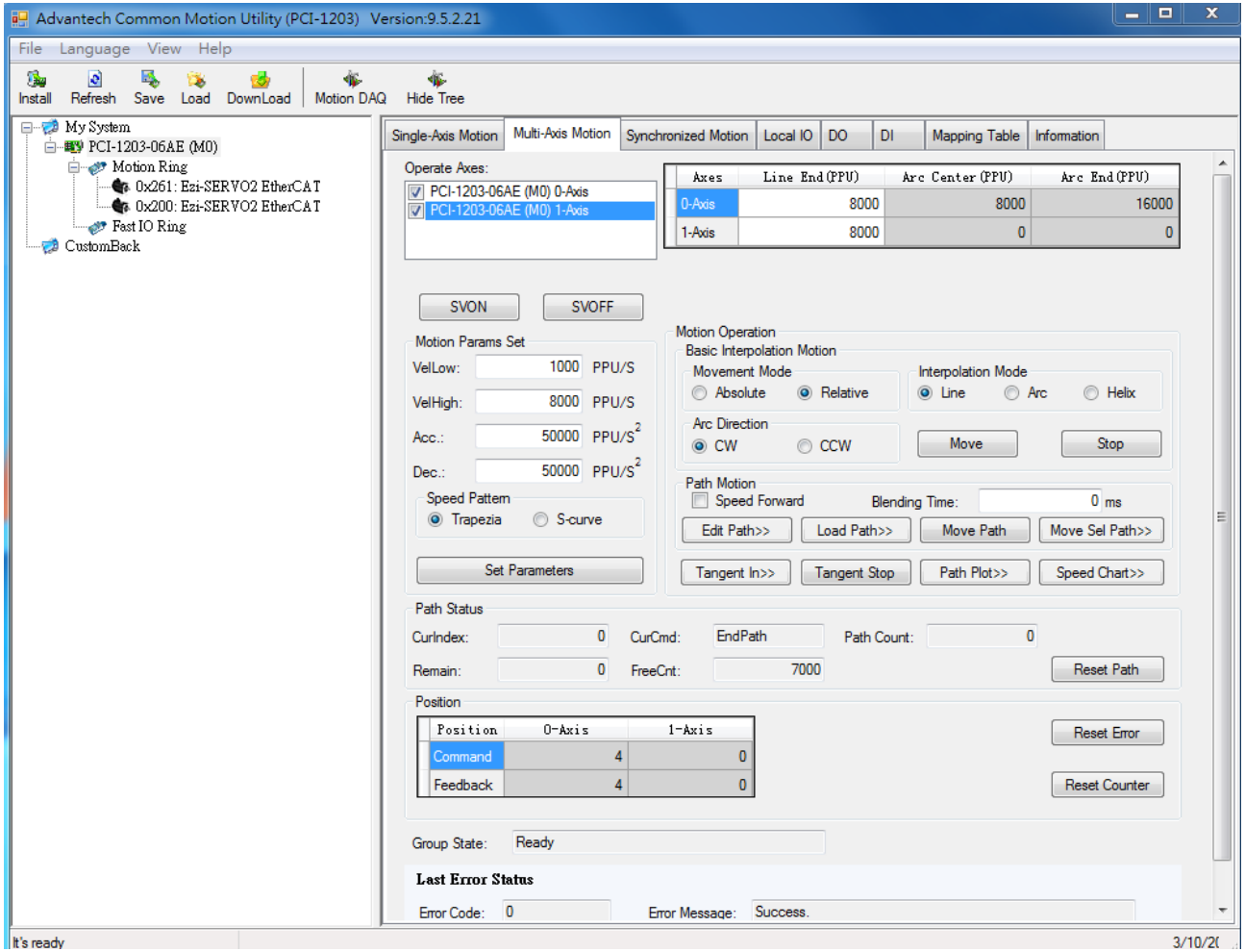
▣ Program Operation

❑ Has Scope View function to visualize each axis of scope by Speed Chart function. And available to select different color and items at each axis



▣ Program Operation

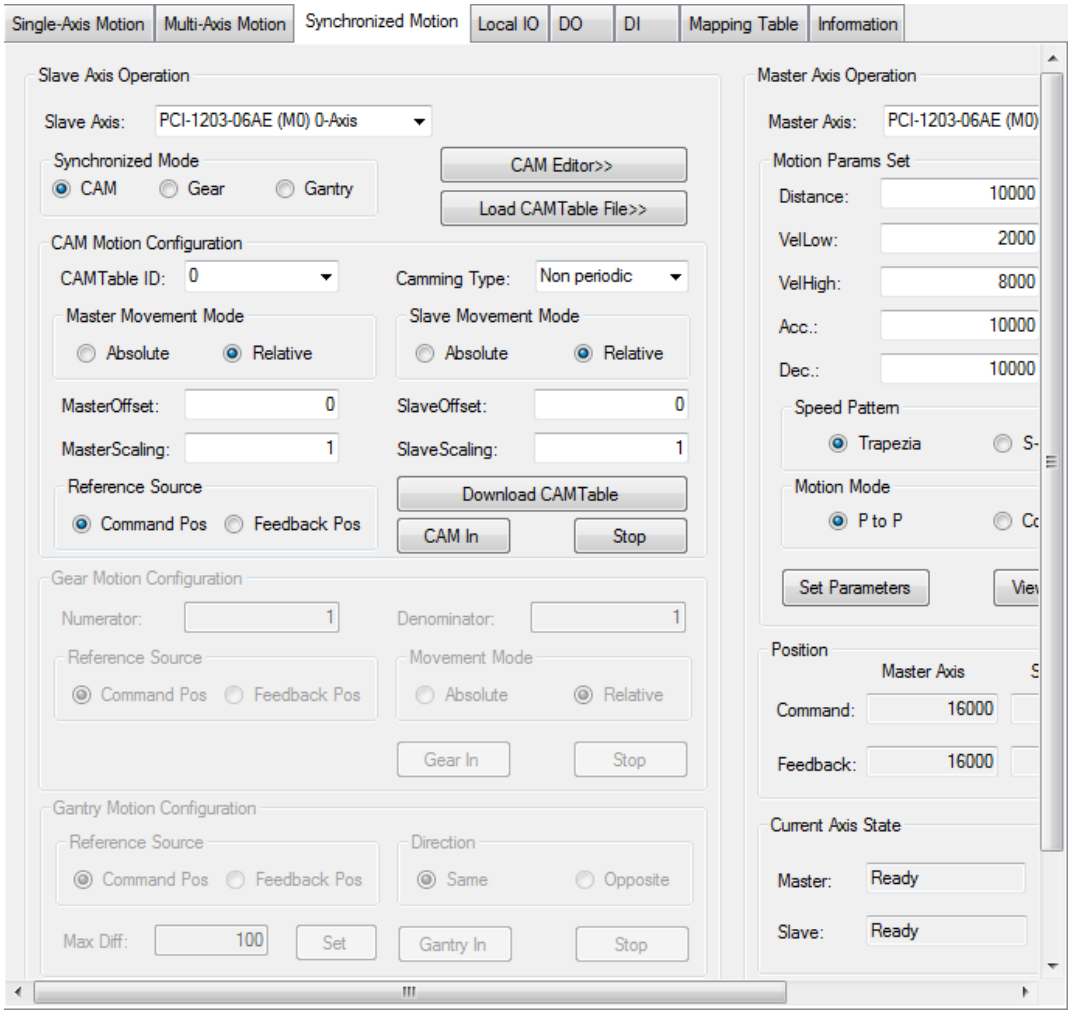
❑ **Simultaneous Servo On/Off for each slave axis thry Multi-Axis Motion and available to operate product by individual setting Motion Operation condition.**



Ezi-SERVO®
Closed Loop Stepping System

▣ Program Operation

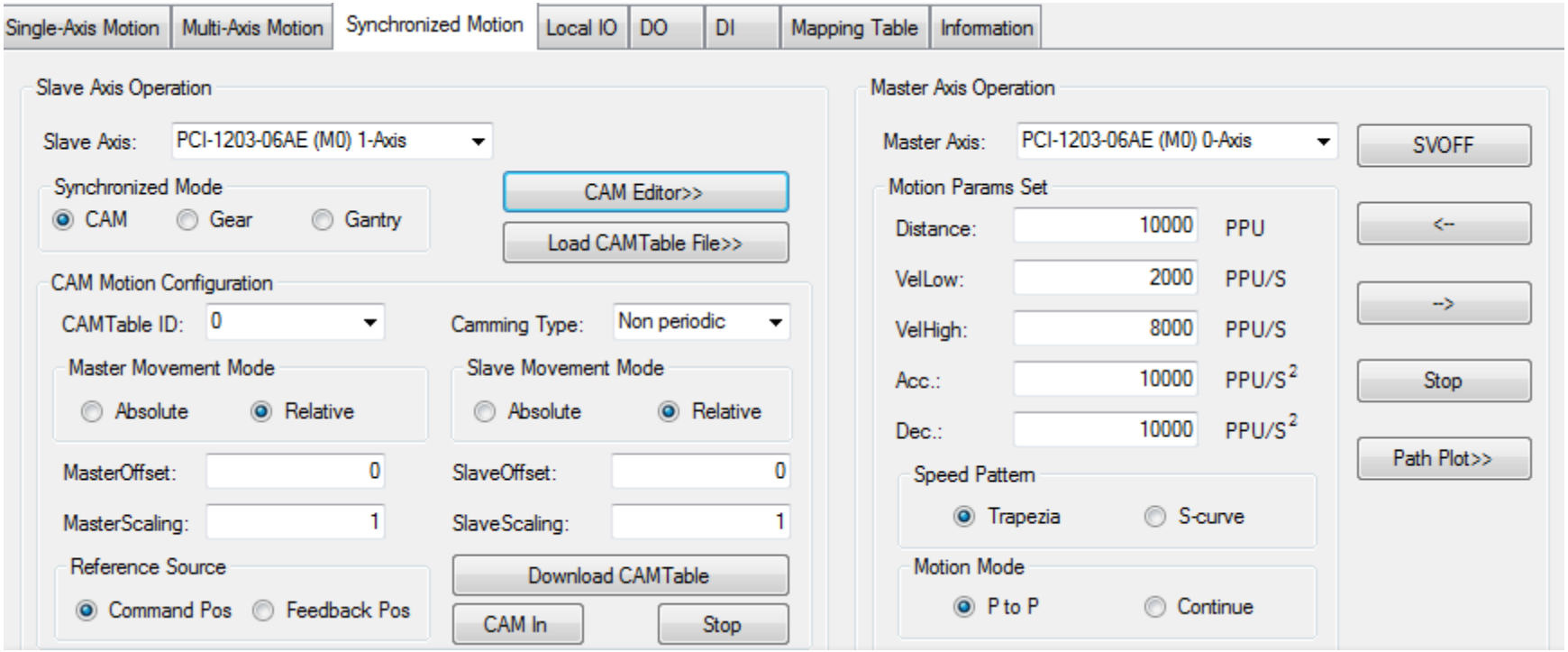
❑ **Synchronized Motion enables synchro-motion for multi axes. And available to simulate as well thru CAM Editor program.**



Ezi-SERVO®
Closed Loop Stepping System

▣ Program Operation

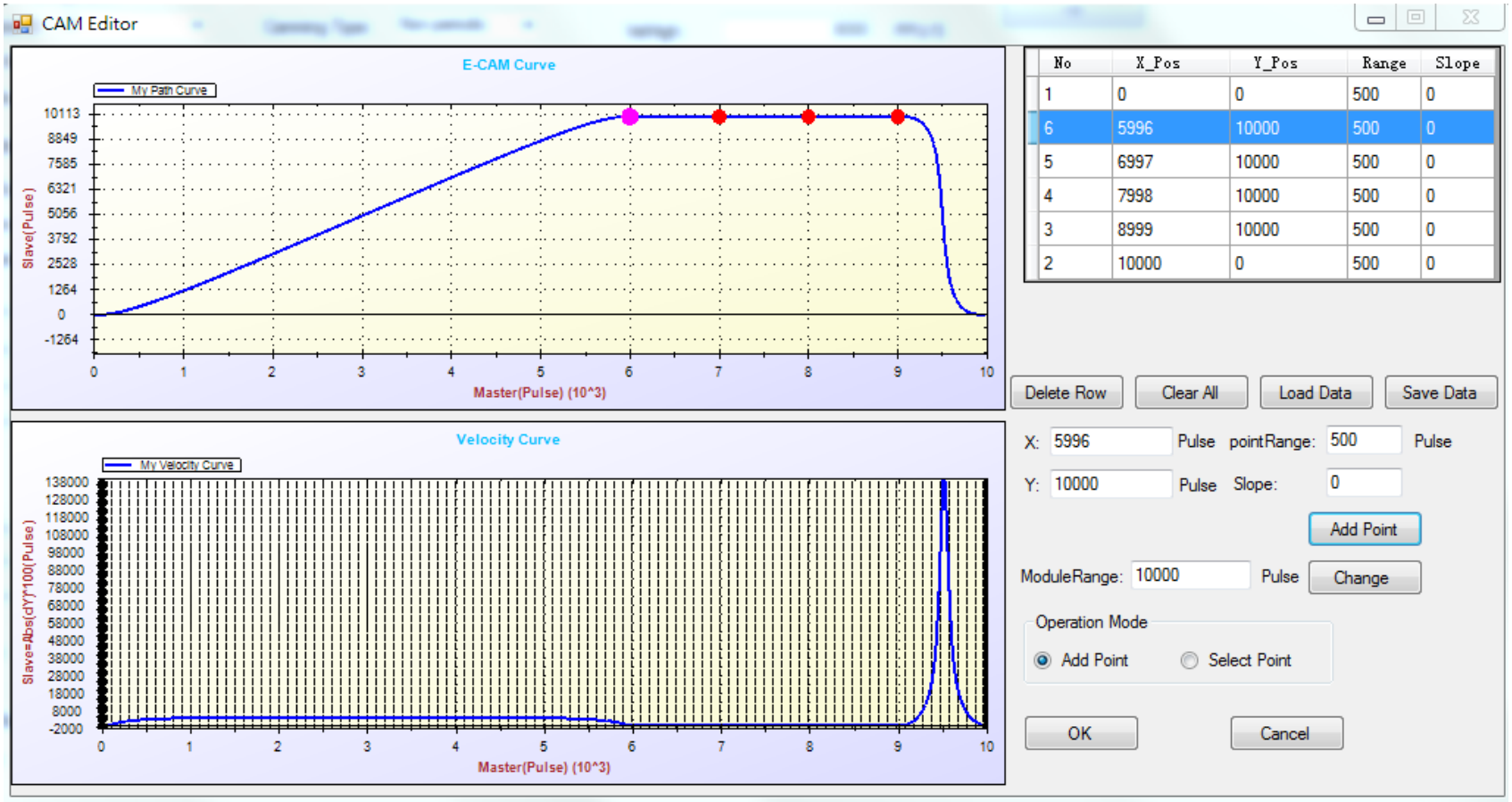
❑ Synchronized Motion enables synchro-motion for multi axes. And available to simulate as well thru CAM Editor program.



Ezi-SERVO®
Closed Loop Stepping System

▣ Program Operation

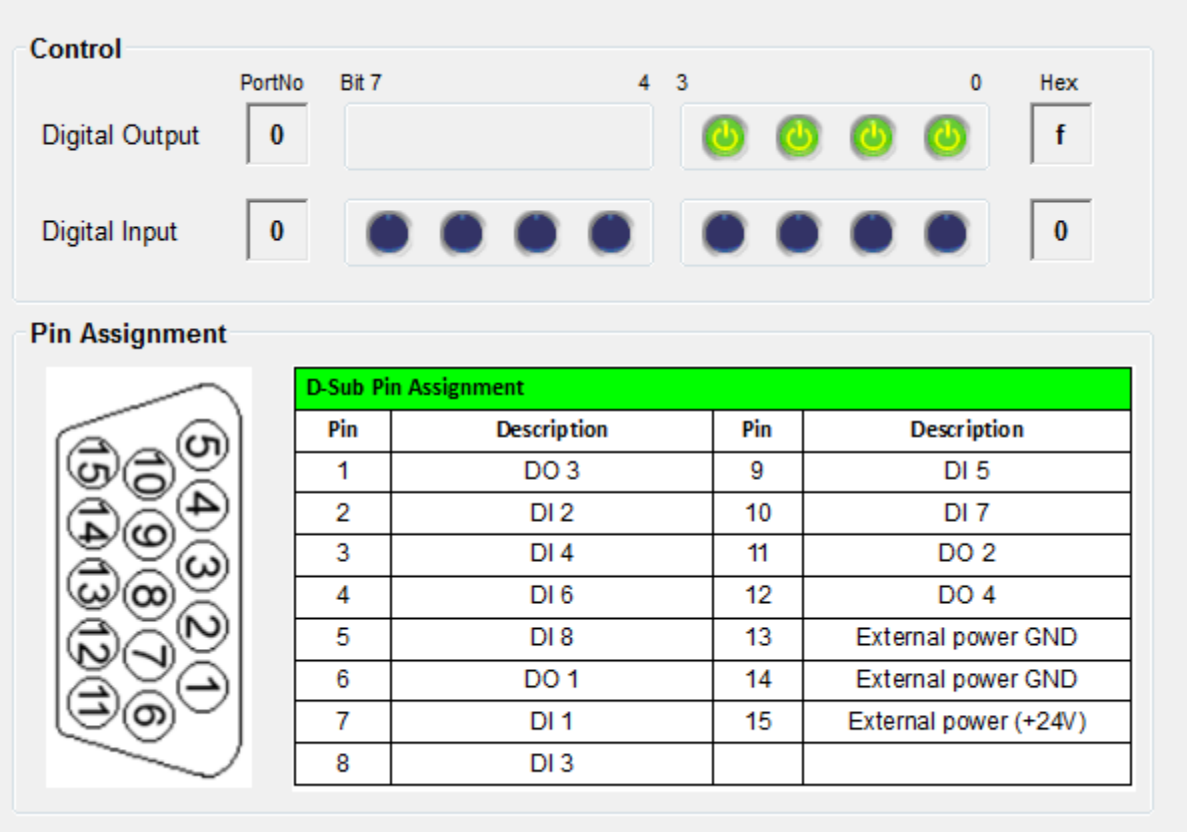
❑ Synchronized Motion enables synchro-motion for multi axes. And available to simulate as well thru CAM Editor program.



Ezi-SERVO®
Closed Loop Stepping System

▣ Program Operation

❑ I/O Assignment, it means each details of pin information can be checked from Mapping Table.



D-Sub Pin Assignment			
Pin	Description	Pin	Description
1	DO 3	9	DI 5
2	DI 2	10	DI 7
3	DI 4	11	DO 2
4	DI 6	12	DO 4
5	DI 8	13	External power GND
6	DO 1	14	External power GND
7	DI 1	15	External power (+24V)
8	DI 3		

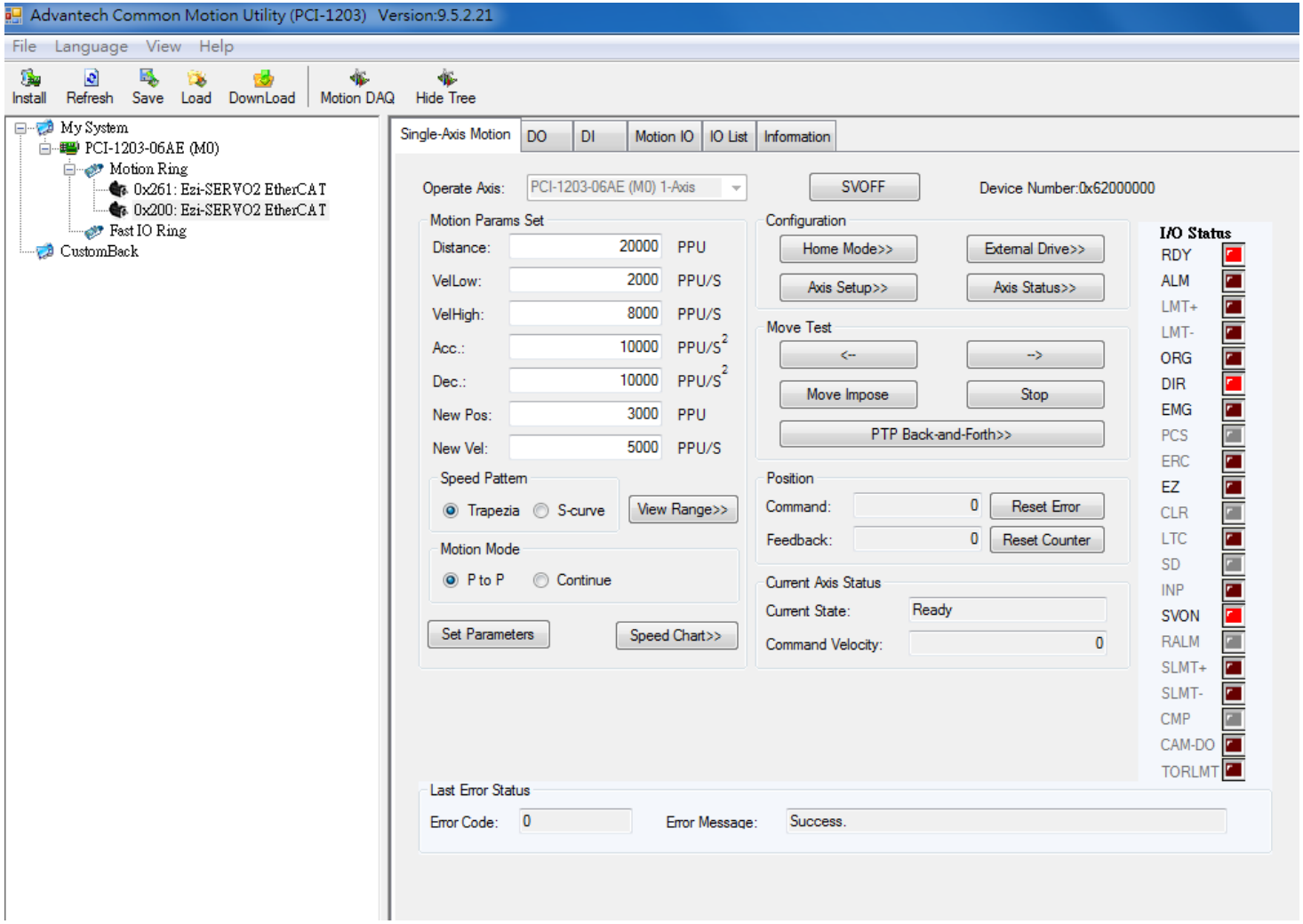
▣ Program Operation

❑ **Able to check Device Information of basic master.**

Ezi-SERVO®
Closed Loop Stepping System

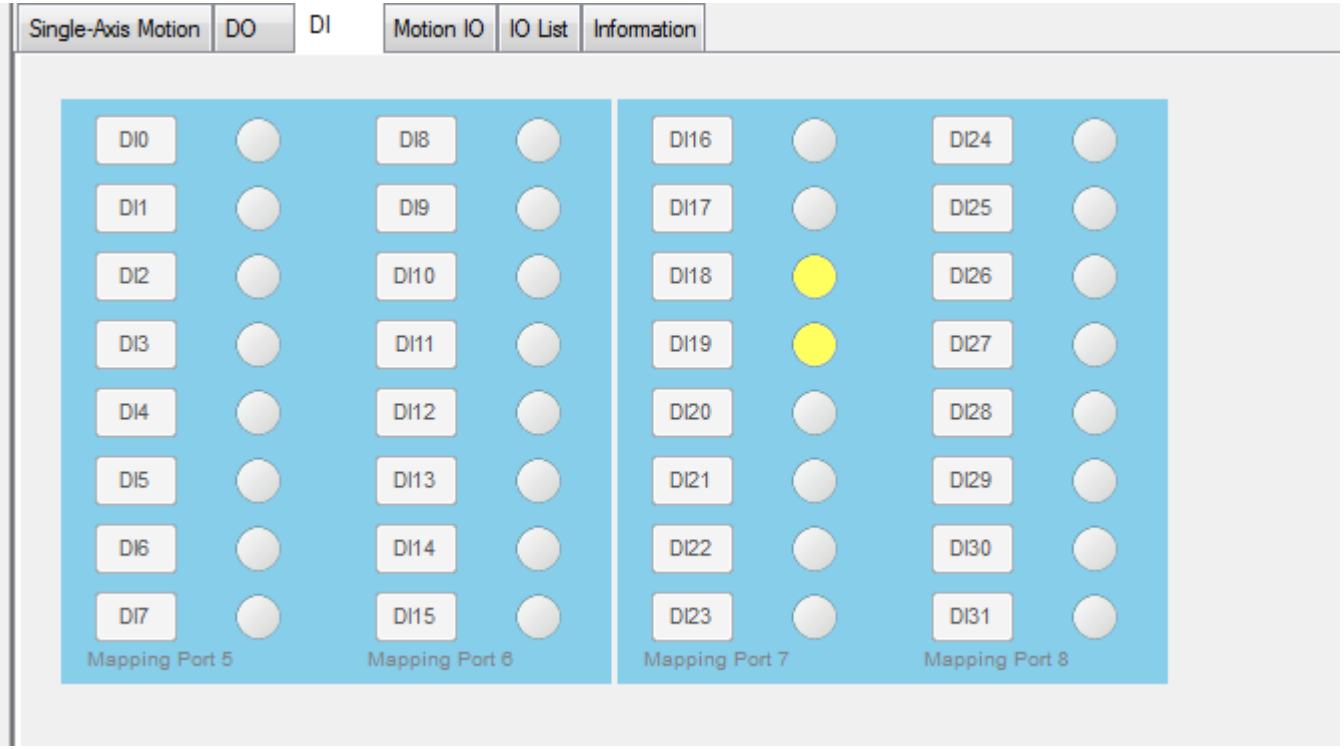
▣ Program Operation

❑ **Able to check each axis of GUI once click recognized FASTECH slave under Motion Ring Tree.**



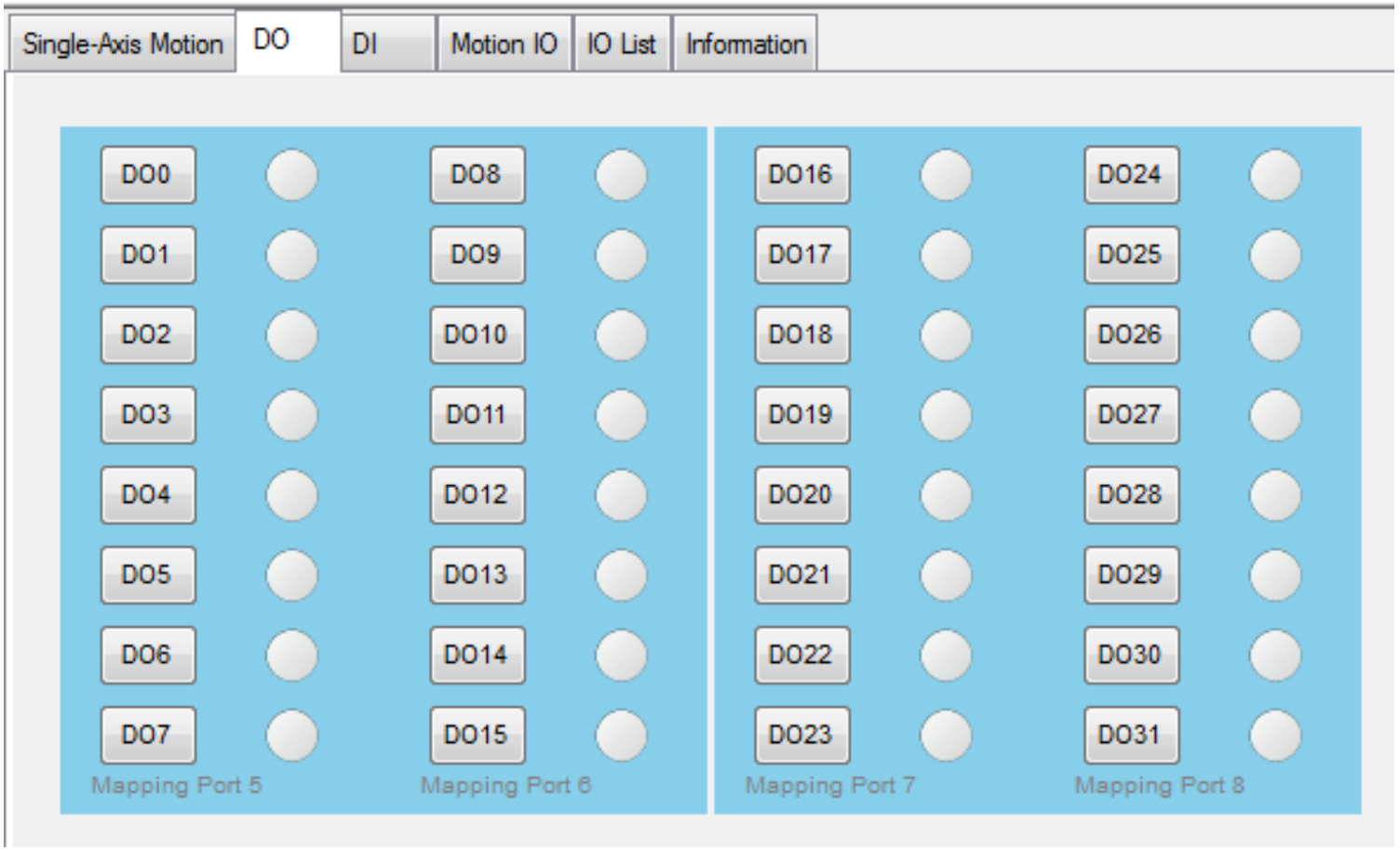
▣ Program Operation

❑ Monitoring for Input is available thru Digital Input function (If you push I/O button of FASTECH actual demo, can check High/Low information thru I/O monitoring)



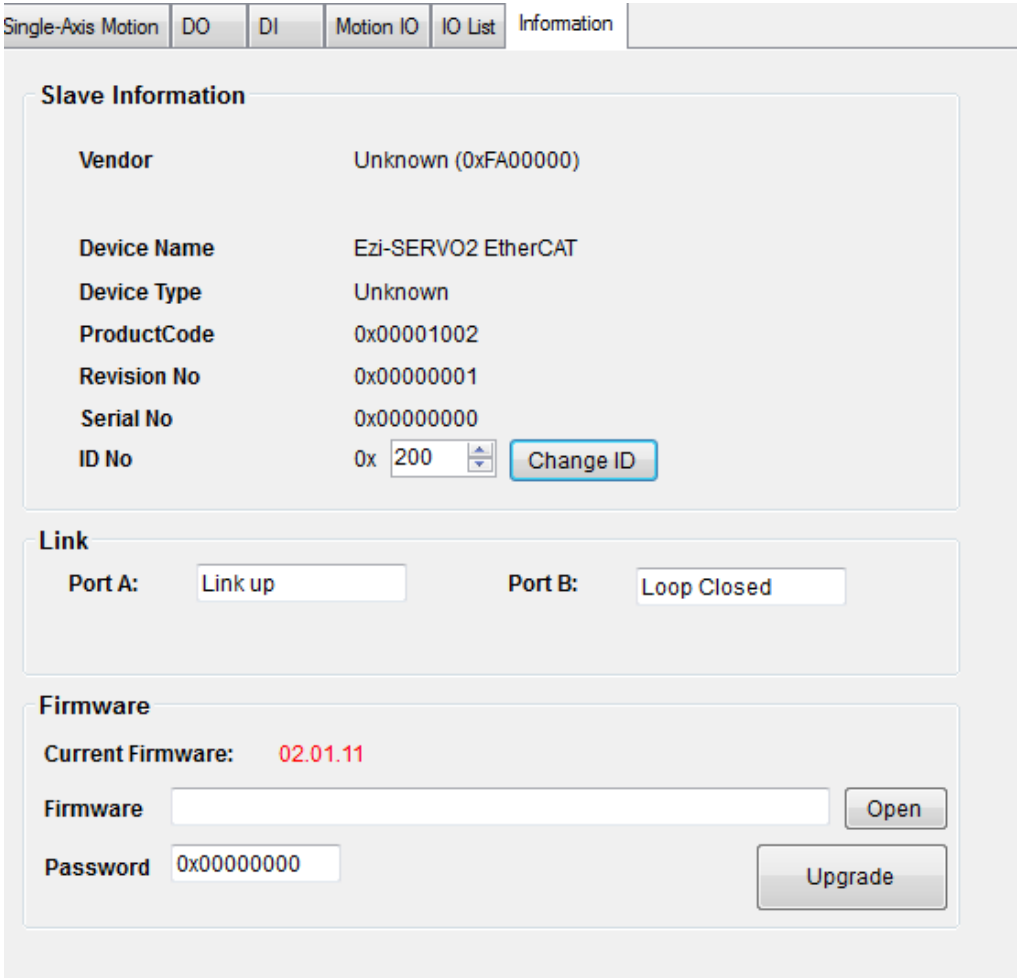
▣ Program Operation

❑ Monitoring for Output is available thru Digital Output function.



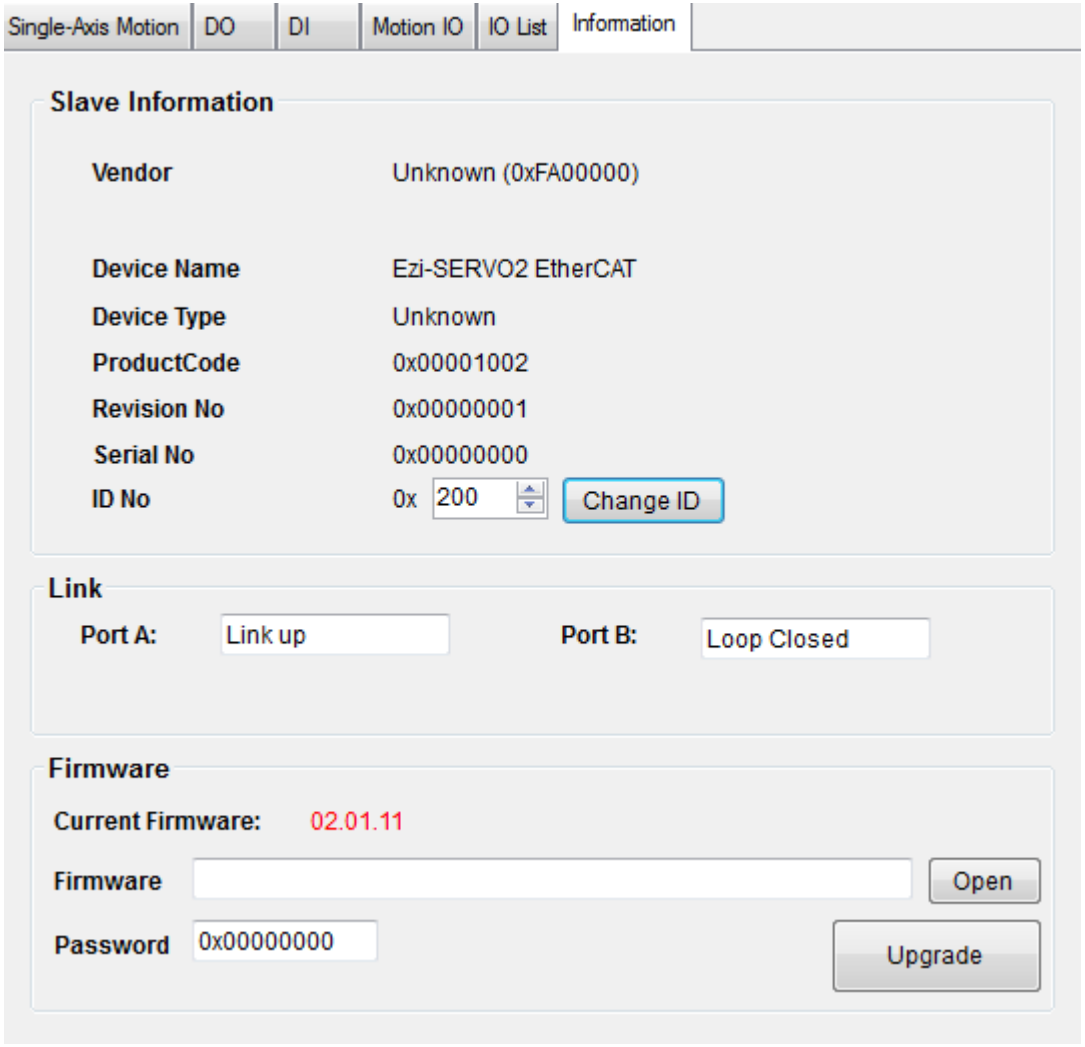
▣ Program Operation

❑ You can check information of each slave and also able to change ID of each slave.



▣ Program Operation

❑ From this window, also can change Firmware of each slave.



Ezi-SERVO®
Closed Loop Stepping System

Thank you!

Ezi-SERVO®
Closed Loop Stepping System