



Title: LabVIEW Motion VI Library Sample Motor Settings
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Summary

Using the VIDemo sample included with the Motion VI Library changes the current motor settings, resulting in motor operation that differs from the behavior seen in other sample program (e.g. CWDemo, Joy, etc.).

More Information

At the start of the VIDemo sample a call is made to the MCDLG_RestoreAxis() VI, part of the Motion VI Library. This VI restores the motor settings for all of the motors on a motion controller from settings saved in an INI file. If these settings differ from the current motor settings the result can be changes in the motor behavior. There are two ways to avoid this problem:

- 1) While in CWDemo, with the motors correctly configured (say after a re-boot or motion controller reset) use the "Save All Axes Settings" menu option to write the current motor settings to the INI file. VIDemo will then use these same settings when it runs.
- 2) The call to MCDLG_RestoreAxis() occurs in frame 0 of the "Run Frame" in the VIDemo wiring diagram. Simply delete this VI from the wiring diagram and VIDemo will no longer attempt to change the "current" motor settings when it starts.

MCDLG_RestoreAxis() is included in the VIDemo sample because it is the recommended way for user applications to configure the motion controller. As such, solution #1 above is the preferred because it works with MCDLG_RestoreAxis() to correctly configure the motion controller.