Picard Industries

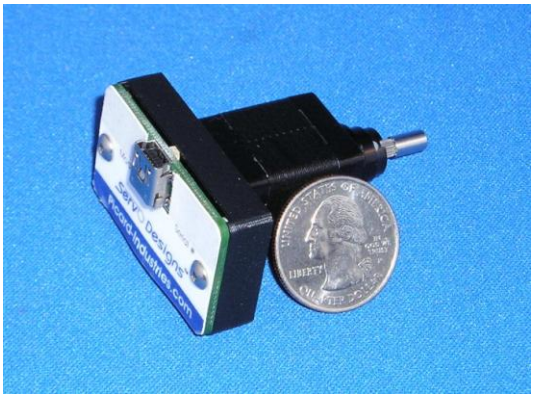
Specializing in Miniature Smart Motors and Sensors

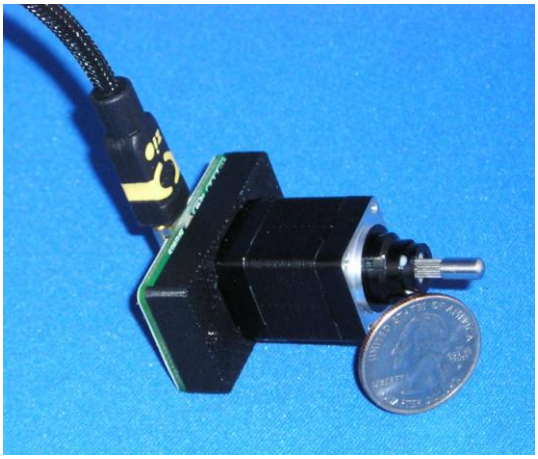
ServO Designs™

USB-Motor II Controller

System Features

- Small Low cost stepper motor (USB) control system
  ($ 395.00 single piece price)
- Draws power from a standard USB port
- Small Motor size of 20mm square (size 8)
- Force of about 1.0 Kg Loads (~2.2 pounds)
- Linear range motion of about 9mm (~0.375")
- Position resolution of 1.5 microns (0.00006")
- Power efficient, holds position with no power
- Built-in magnetic (Hall effect) home sensor
- PC Windows interface for easy motion control
  Includes LabView Drivers and C++ DLL files





The USB-Motor II is a relatively low cost system for precision linear motion. Powered and controlled solely by a standard USB port, this system provides the method of linear motion control unmatched in size, simplicity, and ease of use.

The USB-Motor II application software runs on any standard PC with Windows-XP with a USB port. This user interface provides for velocity (step speed), and position (step) control. All position movements are relative to the home (fully retracted) position. A built-in magnetic (Hall) sensor is used to establish this home position. The software provides a homing function to properly use this sensor.

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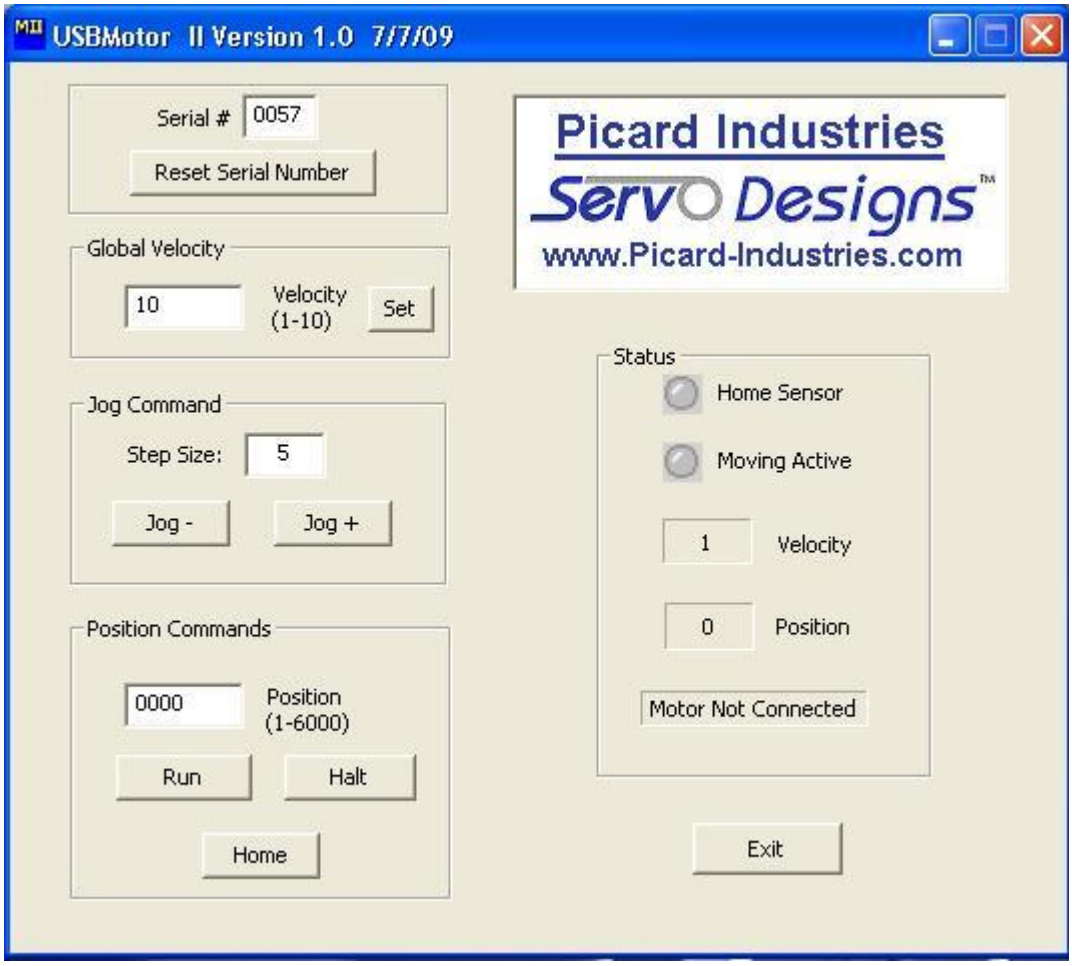
USB Motor II User Interface

Below is a screen shot of the control software that is provided with the USB-Motor II device. This software comes on a CD and will auto install upon insertion into any standard PC with a Windows-XP/VISTA operating system. After the software has been successfully loaded, simply insert the motor's serial number and attach the USB-Motor II to a standard USB port. The software will auto-detect the connection and allow you to begin controlling the position of the motor.



USB-Motor II Dimensions