USB Linear Slide

Features

- **Small USB controlled, stepper motor based linear slide.**

- **Draws power from a standard USB port no external power supply required.**

- **Self-contained (onboard) control electronics and motor driver.**

- **Small system size of 4.5 X 12 cm (1.75" X 4.75").**

- **Force of about 500 gram loads (~1 pound).**

- **Linear range motion of about 12mm (~0.5").**

- **Positional step resolution of 6.4 microns (0.00025").**

- **Power efficient, holds position with no power.**

- **Built-in magnetic (Hall effect) home sensor to detect the fully retract slide position.**

- **PC based (XP and higher) Windows interface for easy motion control.**

($485 single piece price)

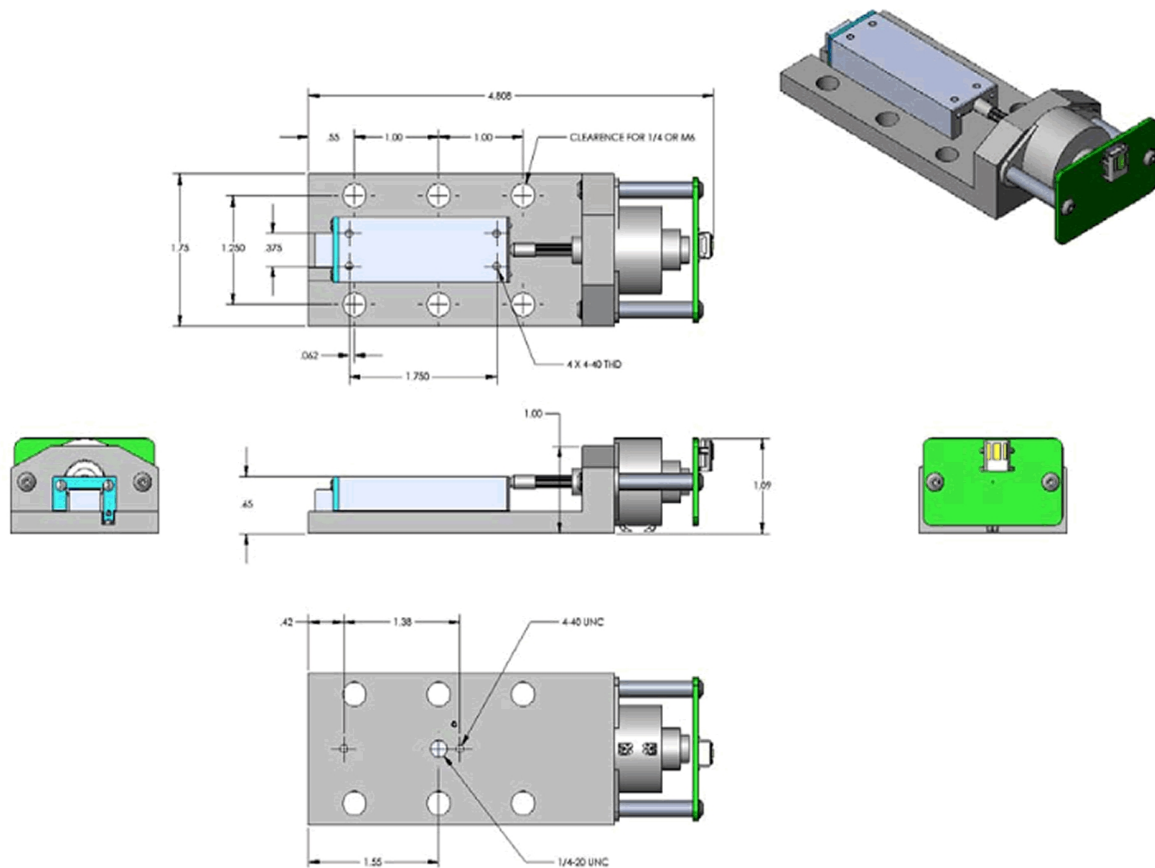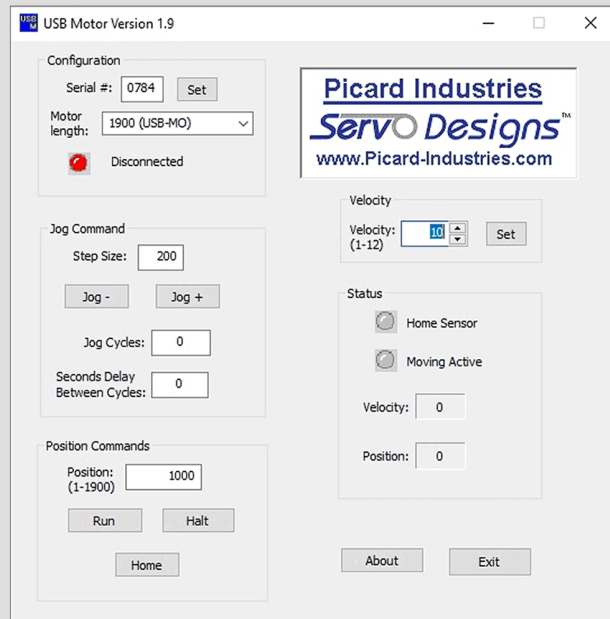## Picard Industries

4960 Quaker Hill Road, Albion, NY 14411

(585) 589-0358

www.Picard-Industries.com

Mechanical Layout

Software Interface

USB Motor Version 1.9

Configuration
Serial #: 0784 [Set]
Motor length: 1900 (USB-MO)
● Disconnected

Picard Industries
Servo Designs™
www.Picard-Industries.com

Jog Command
Step Size: 200
[Jog -] [Jog +]
Jog Cycles: 0
Seconds Delay Between Cycles: 0

Velocity
Velocity: (1-12) 10 [Set]

Status
○ Home Sensor
○ Moving Active
Velocity: 0
Position: 0

Position Commands
Position: (1-1900) 1000
[Run] [Halt]
[Home]

[About] [Exit]

Description

To the left is a screen-shot of our Windows application for controlling an individual USB-Slide.

Each slide is identified by its serial number located on the Slide.

Enter this number and click Set to connect to USB.

Status (red/green) indicators are used to show whether the Slide is properly connected to the USB port and its positional status.

The Home click button is used to initialize the Slide to its fully retracted position.

From this position the remaining click buttons and data boxes are used to move the Slide to the desired position.

Source code for this program and LabView examples are also provide as a tutorial for using our DLL file that controls the linear motor.