

PID Tuner - Closed-Loop Axis Tuning

PID TUNER

Liburdi's PID Tuner is a full-featured application that provides the ability to tune any velocity and position closed-loop axes in real-time on any applicable weld head connected to a Liburdi orbital power source (Gold Track® VI, Gold Track® VP, LCX™, P300™, or PTW 160™).

A PID controller (Proportional Integral Derivative controller) is a generic control loop feedback system that is widely used in industrial control systems. The PID loop calculates the difference between the target (intended) position and the actual (feedback) position. Using this data, the control system attempts to mitigate the difference by modifying the output.

Features:

- Provides real-time visibility into velocity or position feedback loops using advanced graphing software.
- Significantly reduces the expensive trial and error approach.
- Provides the ability to update weld head configuration files with one-touch.
- Compatible with any weld head that incorporates a feedback signal (potentiometer or encoder).
- The PID Tuner can be installed on any desktop or laptop PC and connected to an orbital power supply using a standard CAT 5 crossover cable.



Weld Quality Starts in the Arc

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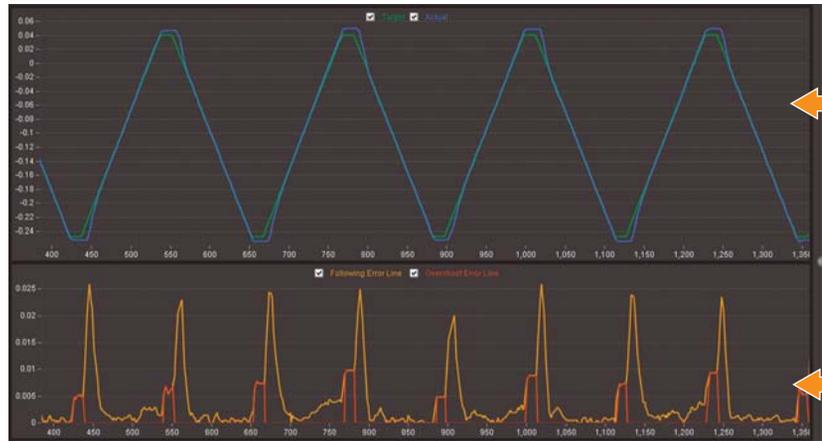


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FEATURES

Graphing

Real-time graph of position feedback system. Each graph line can be displayed or hidden by clicking on the checkbox in the graph legend. The Y-axis depicts the position or velocity counts and the X-axis is time-based.



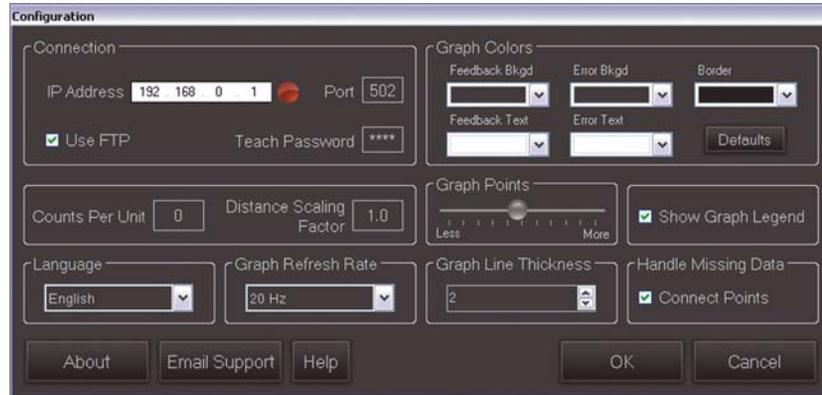
Actual target values of motor

Grey slider to modify size of graphs

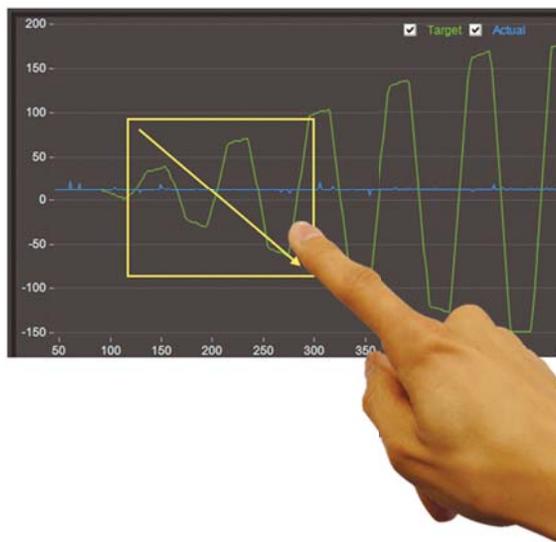
Amount of error

Configuration Menu

The configuration menu provides a variety of options to customize PID Tuner.



Click 'n' Drag Zoom



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