CRISP Ninja (Standalone CRISP GUI)

CRISP Ninja is a standalone application that works with CRISP on both the TG-1000 and MS-2000 controllers.

This is a Windows only application and works on Windows 10 and 11.

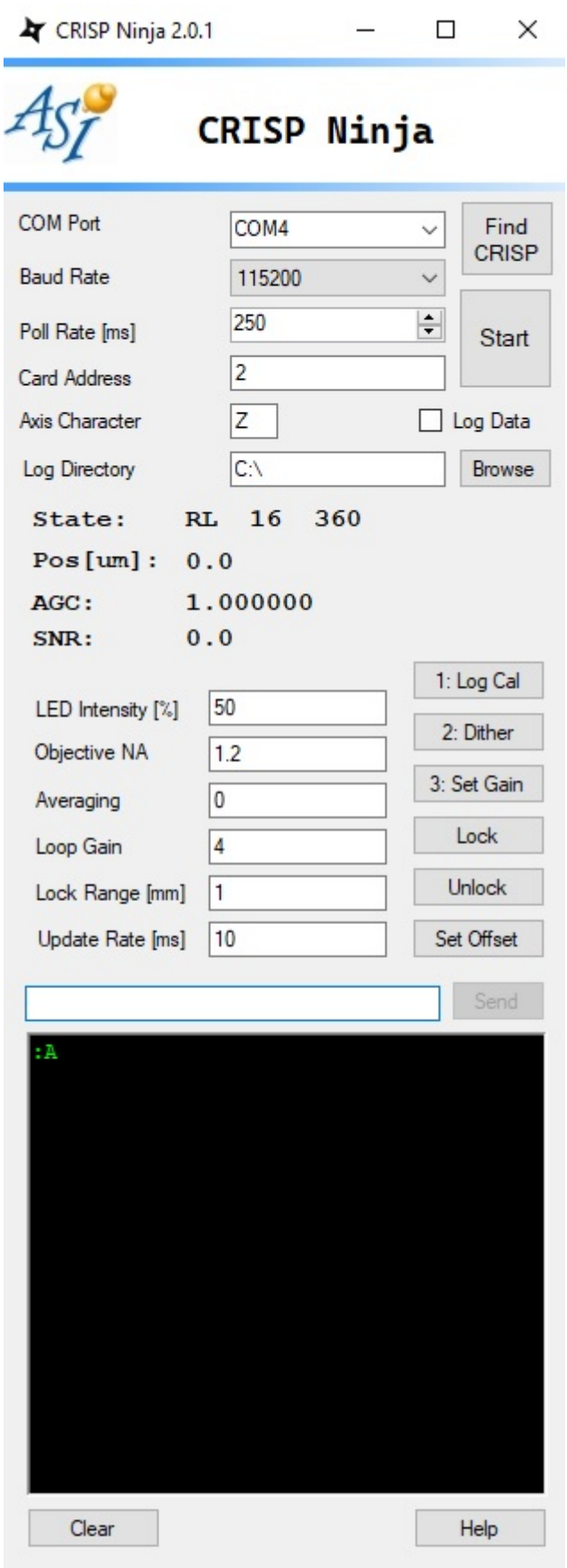
The CRISP Micro-Manager plugin can also be used to control CRISP.

Please refer to the CRISP manual for general information.

Downloads

- Latest build - CRISP Ninja 2.0.1

CRISP Ninja User Interface



Setup

COM Port - serial communications port.

Baud Rate - serial communications speed. [Always `115200` for `TG-1000`]

Poll Rate [ms] - The delay between requesting the status of the CRISP device. Leave it at 120 ms, frequent polling may cause freezes.

Card Address - The card address for `TG-1000` systems. Leave this input blank for `MS-2000`.

Axis Character - The axis that CRISP is using to auto-focus, usually Z or F.

Log Save Directory - The save directory to log data if logging is enabled.

Find CRISP - Queries the controller to automatically find the `Axis Character` and `Card Address`.

Start - Connect to the controller, click again to disconnect.

Log Data - Check this box to log data to the `Log Save Directory`.

Status

State - The current state of the device.

Pos[um] - The position of the axis in microns.

AGC - The AGC value.

SNR - The signal to noise ratio.

Calibration

1: Log Cal - Set the CRISP state to Log Cal.

2: Dither - Set the CRISP state to Dither.

3: Set Gain - Set the CRISP state to Set Gain.

Buttons

Lock - Focus lock the device.

Unlock - Unlock from focus lock.

Set Offset - Zeros the error signal, CRISP will attempt to keep current focus.

Clear - Clears the black text box of all previous entries.

Help - Opens the default web browser and navigates to this page.

Spinners

LED Intensity [%] - Sets the IR LED intensity as a percentage of brightness.

Objective NA - Set to the objective's numerical aperture.

Averaging - Error signal averaging.

Loop Gain - Adjust to change the responsiveness of CRISP.

Lock Range [mm] - Prevent the axis from moving too far out of focus lock.

Update Rate [ms] - The time in milliseconds to wait between updates to the CRISP trajectory.

Legacy Builds

- Previous build - April 2022
- Previous build - September 2021
- Previous build - April 2020
- Previous build - September 2019
- Previous build - March 2019

crisp, software, tiger, manual