

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

★ CRISP Ninja 2.0.1

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CRISP Ninja

COM Port

COM4

Baud Rate

115200

Poll Rate [ms]

250

Card Address

2

Axis Character

Z

☐ Log Data

Log Directory

C:\

Browse

Find CRISP

Start

State:RL16360

Pos [um]:0.0

AGC:1.000000

SNR:0.0

LED Intensity [%]

50

Objective NA

1.2

Averaging

0

Loop Gain

4

Lock Range [mm]

1

Update Rate [ms]

10

1: Log Cal

2: Dither

3: Set Gain

Lock

Unlock

Set Offset

Send

:A

Clear

Help

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](#)

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