

Upgrade instructions for Leo Bodnar BU0836A

Caution:

Upgrading the firmware may render the USB adapter unusable if the process is not followed carefully.

Do not disconnect the USB during the upgrade process.

Make sure the USB adapter is connected directly to the computer via the shortest USB link possible, remove any USB hubs or USB extenders. If possible connect the control box to a USB 2.0 port.

The firmware can be reverted to an earlier version if needed.

Settings can be lost during this process, (pedal calibration etc) make sure you have them backed up.

Check the existing firmware version.

There are a number of ways to check to see what version of firmware is installed on the control board.

Either the BU0836 Encoder or the BU0836 Configuration program will report the current firmware version installed.

The current version is also reported by the HID Flash tool that is used to upgrade the control boards.

| BU0836 configuration | BU0836 Rotary Encoders Configuration v1.7 |
|---|---|
| Device details | Device details |
| Manufacturer Leo Bodnar Serial Number B11112 💌 | |
| Product BU0836A Interface Manufacturer Leo Bodnar | |
| Version 1.24 | Product BU0836A Interface |
| Serial Number B11112 | Version 1.24 |
| Analog input mode Invert analog inputs | Rotary encoder type on each input pair: |
| Input 1 (X) Normal Invert 1 (X) | OFF • 1-2 OFF • 17-18 |
| Input 2 (Y) Normal Input 2 (Y) | OFF - 3-4 OFF - 19-20 |
| Input 3 (Z) Normal Input 3 (Z) | OFF - 5-6 OFF - 21-22 |
| Input 4 (RX) Normal Input 4 (RX) | OFF • 7-8 OFF • 23-24 |
| Input 5 (RY) Normal Invert 5 (RY) | OFF - 9-10 OFF - 25-26 |
| Input 6 (RZ) Normal Invert 6 (RZ) | OFF • 11-12 OFF • 27-28 |
| Input 7 (Dial) Normal 🖵 🗖 Invert 7 (Dial) | OFF • 13-14 OFF • 29-30 |
| Input 8 (Slider) Normal Input 8 (Slider) | OFF • 15-16 OFF • 31-32 |
| Miscellaneous Pulse Width | |
| Automatic detection of connected analog inputs | |



<u>Step 1</u>

Download the firmware renaming tool from Leo Bodnar Website.

The program used to program the firmware is called HID Flash, this is universal and is able to program most of our devices.

Leo Bodnar - HID Flash Software. Windows Only Download - SetupHidFlash_v1.0.exe

Download the current firmware version for the BU0836A board.



This is a zip file and will need to be extracted to your computer.

Step 2

Install HID Flash.





| Setup HidFlash Setup | | - | < |
|--|---|---|---|
| Choose Components | | | |
| Choose which features of HidF | lash you want to install. | <u> </u> |) |
| Check the components you wa install. Click Next to continue. | nt to install and uncheck the con | nponents you don't want to | |
| Select components to install: | ✓ HidFlash (required) ✓ Start Menu Shortcuts ✓ Desktop Shortcut | Description Position your mouse over a component to see its description. | |
| Space required: 11.7MB | | | |
| Nullsoft Install System v3.0b1 | | | _ |
| I | | <u>N</u> ext > Cancel | |

<u>Step 3</u>

Run the firmware flasher program. (HIdFlash)

| Sirmware flasher | – 🗆 🗙 |
|--|-------------------|
| File <u>H</u> elp | |
| | |
| BU0836A Interface - B54314 👻 | 1. Bootloader |
| Device details Manufacturer: Leo Bodnar | 2. Browse file |
| Product: BU0836A Interface | 3. Flash firmware |
| Version: 1.22 | |
| Serial: B54314 | |
| Firmware File: (none) Progress: 0% | |

Select the device you would like to be flashed - In this example BU0836A - B54314



Click on **1. Bootloader** to put the device into bootloader mode.

| Sirmware flasher | – 🗆 🗙 |
|--|-------------------|
| File <u>H</u> elp | |
| | |
| BU0836A Interface - B54314 🔹 | 1. Bootloader |
| Device details Manufacturer: Leo Bodnar | 2. Browse file |
| Product: BU0836A Interface | 3. Flash firmware |
| Version: 1.22 | |
| Serial: B54314 | |
| Firmware | |
| File: (none) | |
| Progress: 0% | |
| | |
| | |
| | |

Click on **2. Browse** File to select the new firmware to be loaded. BU0836_Original.bin in this example.

| Select file | | × |
|----------------------------------|---------------------------------|--------|
| C Sektop > | ✓ ⁴ → Search Desktop | Q |
| Organize 🔻 New folder | •¥ 84 | |
| | | |
| File name: PI 1926A-Original big | - Firmware files (* hin) | • |
| | Open V | Cancel |



Click on **3. Flash Firmware** to load the firmware.

| Sirmware flasher | — | × |
|--|-------------------|---|
| File <u>H</u> elp | | |
| | | |
| BU0836A Interface - B54314 🔹 | 1. Bootloader | |
| Device details Manufacturer: Leo Bodpar | 2. Browse file | |
| Product: BU0836A 1 | 3. Flash firmware | |
| Serial: B54314 | | |
| Firmware | | |
| File: C:/Users/Michael/Desktop/BU0836A Firmwa Progress: 0% | | |
| | | |

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