



Bootloader Update Instructions for Analog and Digital Versions of the 195 Vision and 225 Navigator Gen2 Indicators

Required Items:

- **Bootloader Update File** – 195_225_BLU_V1.6.bin
- **Firmware File** – 195_225_V3_10_44_NLSW.bin.
- **USB Flash Drive** – Formatted as FAT32 file system

	WARNING: DO NOT INTERRUPT POWER DURING ANY UPDATE PROCESS. Loss of power during an update may result in incomplete installation or device failure. Always verify the correct update file is selected before proceeding.	
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1. Prepare the USB Drive

- 1) Ensure the USB drive is formatted to the FAT32 file system.
- 2) Copy the bootloader update file to the following directory on the USB drive:
cardinal\firmware\195_225_BLU_V1.6.bin
The **cardinal** folder must be located in the *root directory* of the USB drive.
- 3) Next, create the following folder:
/cardinal/firmware/bootloader/
- 4) Copy the new bootloader **.card** files into the new bootloader folder.
Multiple **.bin** files are allowed.
The unit will list all available files and allow you to select the correct one.

2. USB Drive Folder Structure

```
USB drive root
├── cardinal
│   └── firmware
│       ├── 195_225_BLU_V1.6.bin
│       └── bootloader
│           ├── bootloader_file_1.card
│           └── bootloader_file_2.card
```

3. Run the Bootloader Update

- 1) Ensure that your USB drive contains **195_225_BLU_V1.6.bin** in the **/cardinal/firmware/** folder before plugging the USB into the port on the back of the indicator.
- 2) Power on the indicator.
- 3) Select **(1) Firmware Update** in the bootloader menu.
- 4) Select the file: **195_225_BLU_V1.6.bin**. and press **Enter**.
- 5) Allow the bootloader update to complete before removing power from the indicator or the USB drive.
- 6) Power down the indicator and remove the USB drive.
- 7) Ensure that your USB contains the updated bootloader file in the **cardinal/firmware/bootloader/** folder.
- 8) Enter the Bootloader Update application by powering on the indicator. **DO NOT have the USB drive plugged in.**
- 9) After power up, plug the USB drive in.
- 10) **BOOTLOADER UPDATE** appears briefly, and then the **FLASH BOOTLOADER** warning appears automatically.
- 11) **Read the warnings with the on-screen instructions.**



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3. Run the Bootloader Update, Cont.

- 12) The unit will list **.card** files found in **/cardinal/firmware/bootloader/** on the USB drive. Select the file you wish to update to the bootloader.
- 13) On the **FINAL CONFIRM** screen, verify the file name and file size.
- 14) Type **64870** and press **ENTER** or the **FLASH** softkey to verify that you understand the risks detailed in the warnings.
- 15) The unit will verify files and try to determine if the USB is safe to use in the bootloader update.
- 16) The unit erases, writes, and verifies the new bootloader.
DO NOT REMOVE POWER DURING THIS STEP!
A loss of power during this process can corrupt the unit.
- 17) When the update succeeds, a **DONE** message appears briefly, and the unit resets automatically.
- 18) Perform a firmware update as described in section 4. **Firmware Update**.

4. Firmware Update

- 1) Ensure that your firmware file is located in the correct folder on your USB drive, **cardinal/firmware/**.
- 2) Insert the USB drive into the USB port on the back of the indicator.
- 3) Power on the indicator.
- 4) Select **(1)** Firmware Update in the bootloader menu.
- 5) Select the file: **195_225_V3_10_44_NLSW.bin** and press **Enter**.
- 6) Allow the firmware update to complete before removing power from the indicator or the USB drive.
- 7) The indicator will reboot upon successful update and re-enter the bootloader before proceeding to the main application.

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