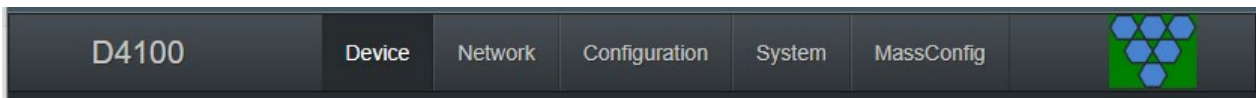


The purpose of the document is to provide instruction and information on firmware updates for Visionary's 4000 Series encoders and decoders. This guide applies to both 1.x and 2.x generations of firmware.

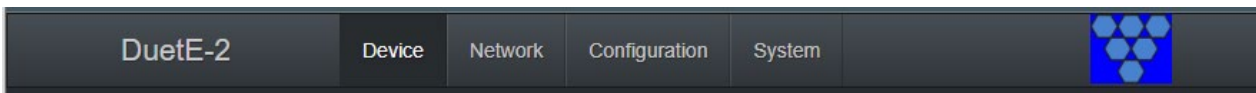
It is important to be aware of the current firmware running on a unit before you perform any updates. Units that are running 1.x firmware are only compatible with other units running 1.x firmware. Units that are running 2.x firmware are only compatible with other units running 2.x firmware. Units that are running 1.x firmware may be updated to 2.x, however, not all units running 2.x may be downgraded to 1.x.

For a unit that is running 2.x to be downgraded to 1.x, the original firmware loaded onto that unit must have started off as 1.x firmware. In addition, some model types are only capable of running 2.x firmware. You can determine if a unit is capable of running 1.x firmware by placing your mouse over the Visionary logo in the upper right corner of the unit's web UI. If the background turns green, that unit is capable of running 1.x or 2.x firmware. If the background turns blue, that unit can only run 2.x firmware.

Green background = Can run 1.x or 2.x firmware



Blue background = Can only run 2.x firmware



Note: after updating a unit from 1.x to 2.x, or when going from 2.x to 1.x it is recommended to factory default the unit after it is running the desired firmware version.

There are 2 different methods to update the firmware of an encoder or decoder.

1. VLite (recommended)
2. System page of an encoder or decoder web UI

VLite (Vision Lite)

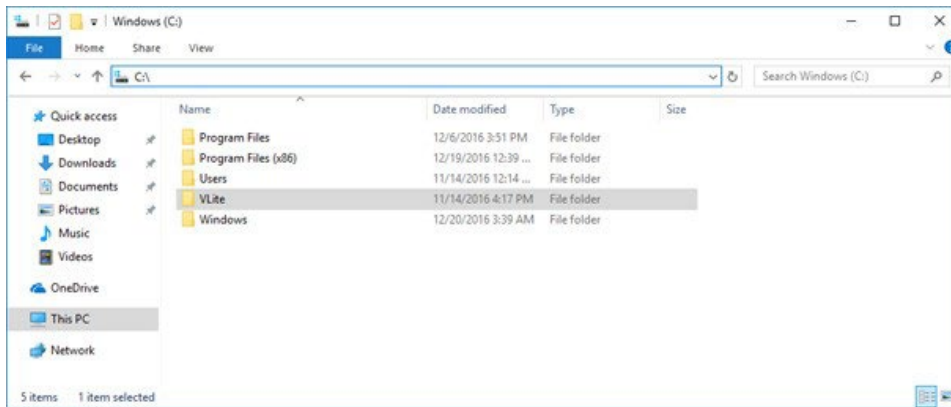
Vision Lite is a 4K Matrix Switching, Video Wall Control, and configuration software for use with Visionary's 4000 Series encoder and decoder endpoints.

The Vision Lite Server Application is cross-platform capable (or OS agnostic), meaning that the software works on Windows, Mac, and Linux. The Vision Lite User Interface is a browser-based application that works on PCs, Apple or Android tablets, and mobile devices. Browsers supported are Chrome, Firefox, Internet Explorer, and so on.

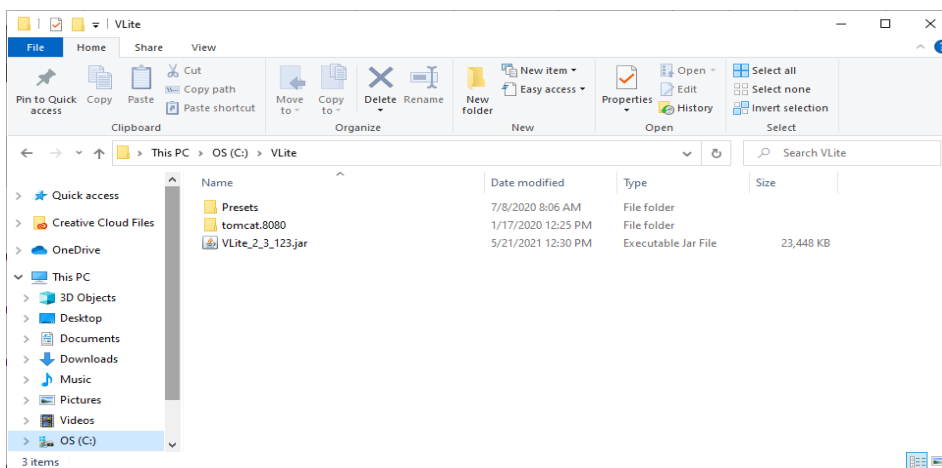
Vision Lite automatically discovers units on your network without any configuration.

Follow these instructions to install the Vision Light software.

1. The compatible version Java JRE runtime (1.8.0) is a prerequisite on the machine running VLite.
 - The JRE can be found here: [Java Download](#)
2. Download the latest Vision Lite software from: <http://visionary-av.com/>
3. Manually create a read/write-able folder/directory C:\VLite at the root of your C:\ drive.
 - This is the recommended directory to place the downloaded VLite.jar file, but you can place the file anywhere on your computer.



4. Save the VLite.jar file that you downloaded to the \VLite folder you just created.



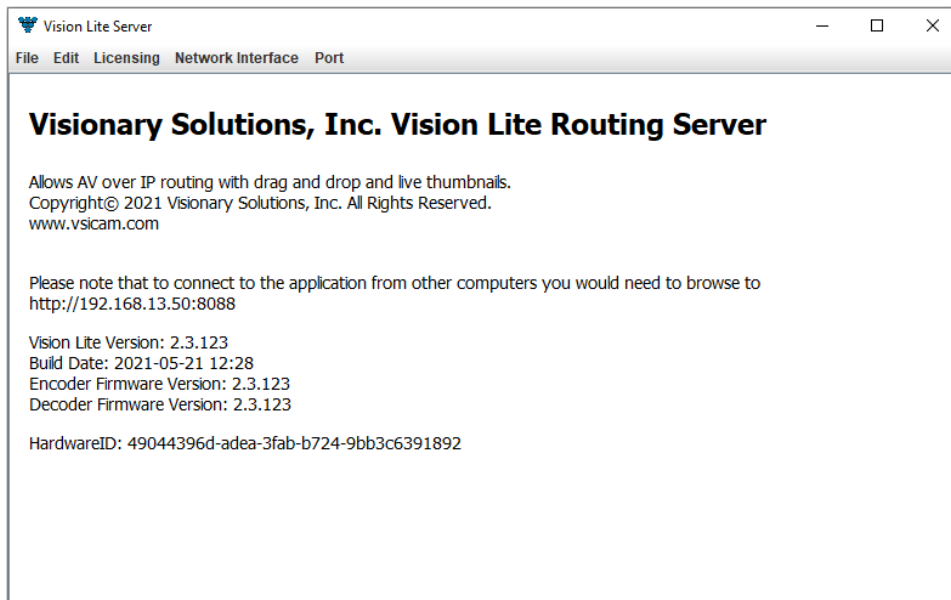
5. Launch the Vision Lite Server application by double clicking the VLite.jar file, OR from a command line interface using the following command: `java -jar VLite.jar`.



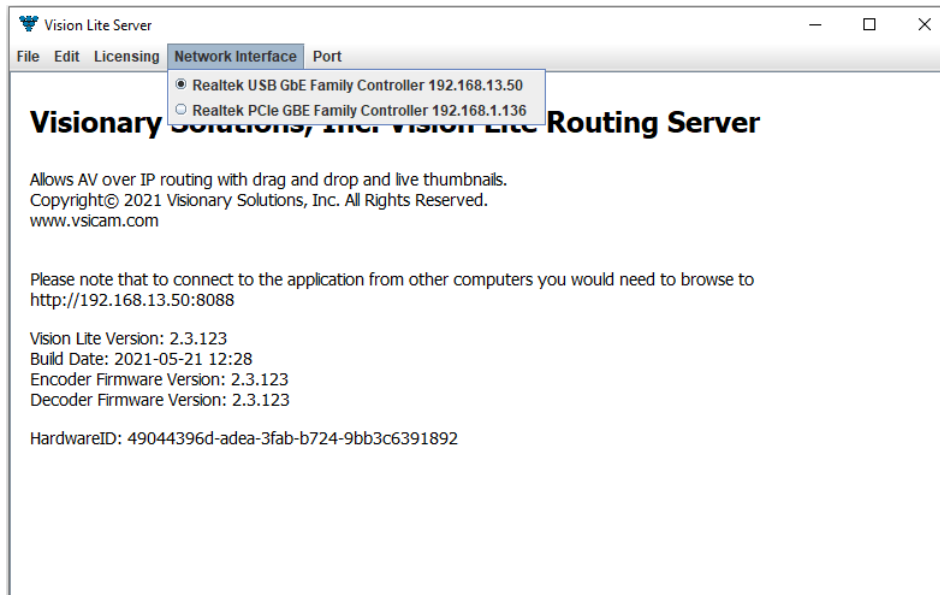
```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.19042.985]
(c) Microsoft Corporation. All rights reserved.

C:\Users\clanson>java -jar VLite_2_3_122.jar
```

6. The Vision Lite Server window opens.



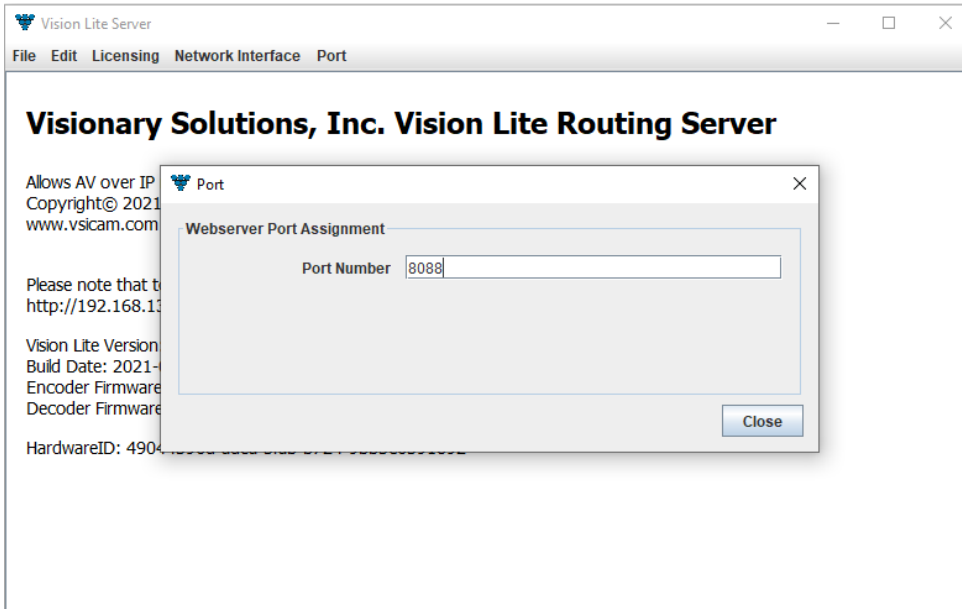
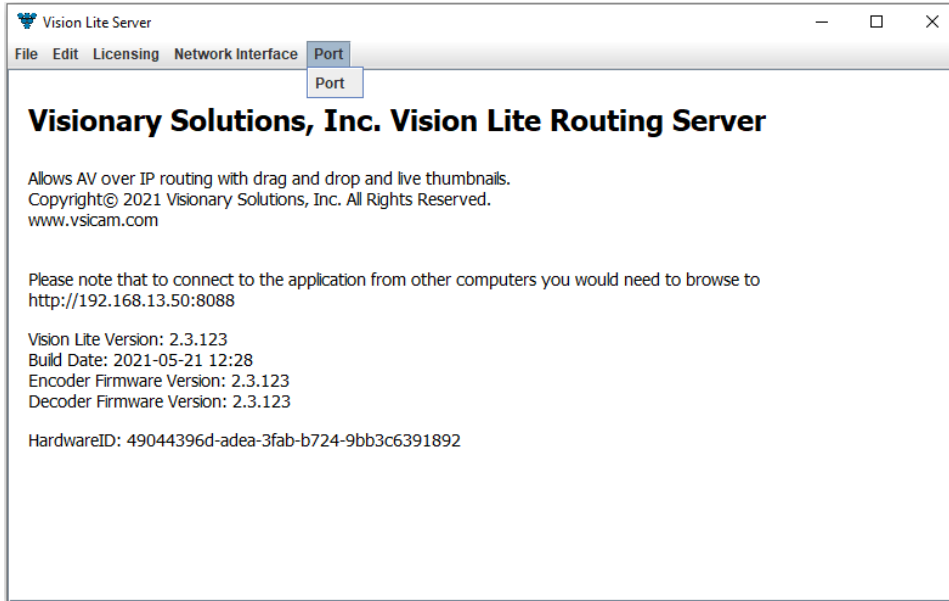
7. Go to the Network Interface menu and select the appropriate network interface.



Select the network interface that the Vision Lite Server will be “listening” on. If your machine has more than one network interface, you will need to select the interface that is connected to the same network as the units.

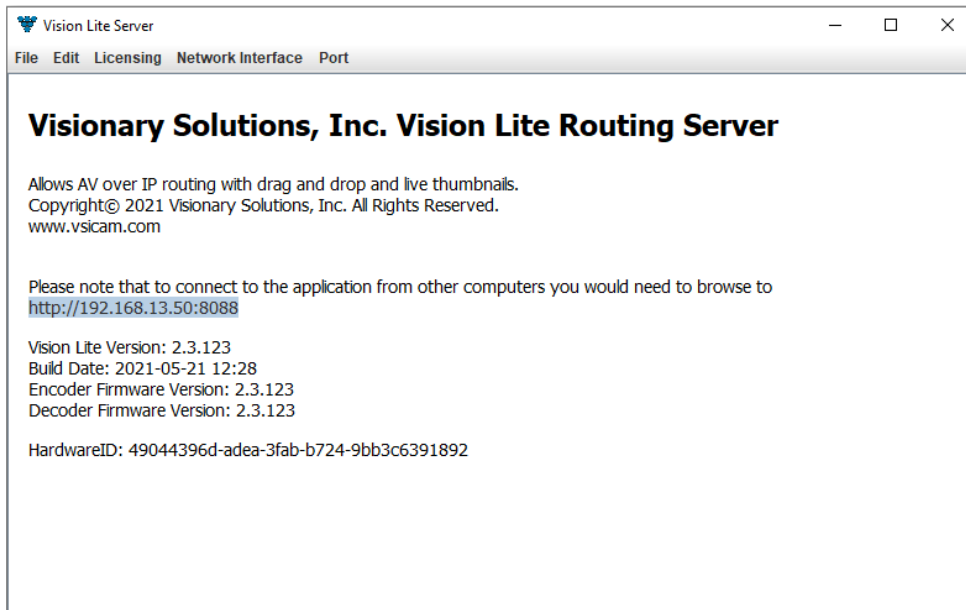
Important: *The Vision Lite Server window can be minimized in the background; however, it must always be running.*

8. The default port assignment for VLite is 8080, other programs running on the computer may be using port 8080. If that is the case, the port for VLite will need to be changed for VLite to open. To change the port assignment, click on “Port” then enter the desired port number.

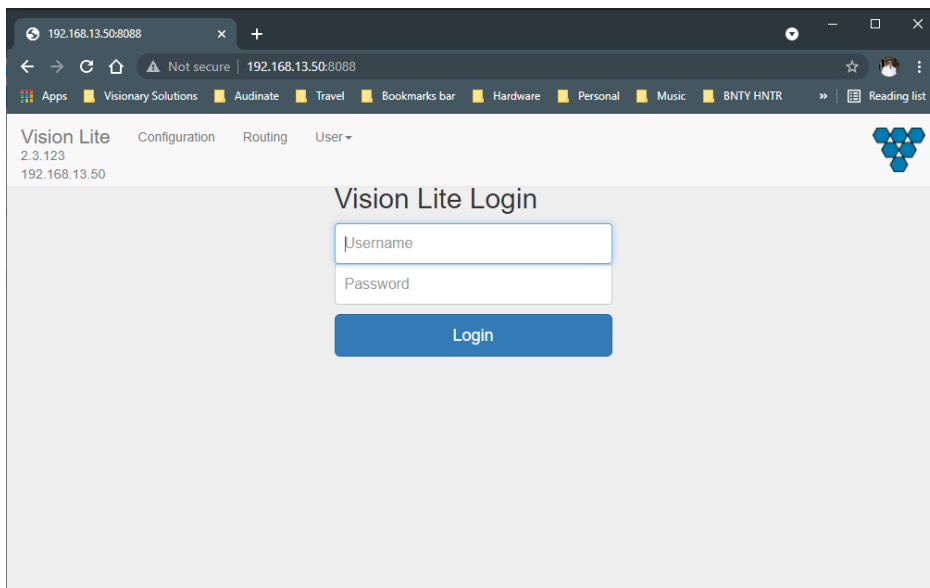


Important: The Vision Lite Server window needs to be closed and then reopened for the new port number to be assigned.

9. Copy the Vision Lite Server IP Address from the Vision Lite Server window to your clipboard.



10. To launch the Vision Lite User Interface, open a browser page and copy the Vision Lite Server IP Address to the URL.



Note: You can log in from any machine on the network.

11. Log in with username=admin password=admin.

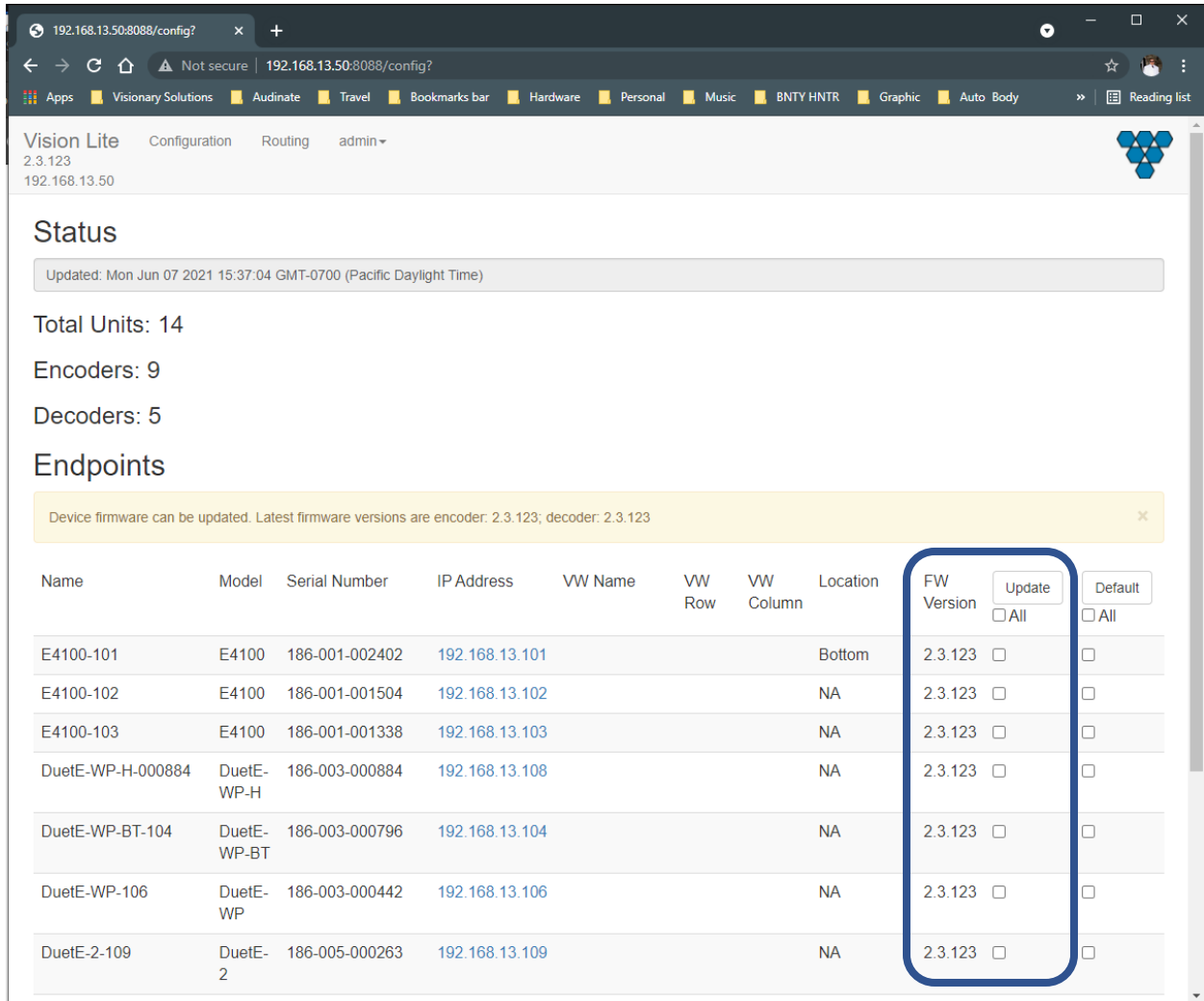
Note: A second user type with limited access rights is available. Log in with username=user1 password=user1.

12. The Configuration page opens. You now have access to configure each unit.
 - On the Configuration page, you can click on the IP Address (hyperlink) of any endpoint to open the embedded web interface for each unit. On the unit's web interface, you can rename the units and/or set a user defined location.

Important: SPECIAL CHARACTERS ARE NOT ALLOWED FOR UNIT ID AND LOCATION. Example: -@#\$% are not allowed.

Note: When making changes to the endpoints, the endpoints briefly disappear from the Vision Lite User Interface while they are rebooting, and the application rediscovers them.

- From the Configuration page, you can update the firmware for any units that may be out of date. The Vision Lite software displays a message if newer firmware is available.
13. Select the units to be updated.
 - You may select individual units or select the "All" box to select all located units.
 14. Press the "Update" button.
 - All selected units will be updated to the version of VLite that is running.
 - The update process will take approximately 10 minutes.



Updated: Mon Jun 07 2021 15:37:04 GMT-0700 (Pacific Daylight Time)

Total Units: 14
Encoders: 9
Decoders: 5

Endpoints

Device firmware can be updated. Latest firmware versions are encoder: 2.3.123; decoder: 2.3.123

Name	Model	Serial Number	IP Address	VW Name	VW Row	VW Column	Location	FW Version	Update	Default
E4100-101	E4100	186-001-002402	192.168.13.101				Bottom	2.3.123	<input type="checkbox"/>	<input type="checkbox"/>
E4100-102	E4100	186-001-001504	192.168.13.102				NA	2.3.123	<input type="checkbox"/>	<input type="checkbox"/>
E4100-103	E4100	186-001-001338	192.168.13.103				NA	2.3.123	<input type="checkbox"/>	<input type="checkbox"/>
DuetE-WP-H-000884	DuetE-WP-H	186-003-000884	192.168.13.108				NA	2.3.123	<input type="checkbox"/>	<input type="checkbox"/>
DuetE-WP-BT-104	DuetE-WP-BT	186-003-000796	192.168.13.104				NA	2.3.123	<input type="checkbox"/>	<input type="checkbox"/>
DuetE-WP-106	DuetE-WP	186-003-000442	192.168.13.106				NA	2.3.123	<input type="checkbox"/>	<input type="checkbox"/>
DuetE-2-109	DuetE-2	186-005-000263	192.168.13.109				NA	2.3.123	<input type="checkbox"/>	<input type="checkbox"/>

- On the Routing tab, you can drag-n-drop to route and switch sources to displays.

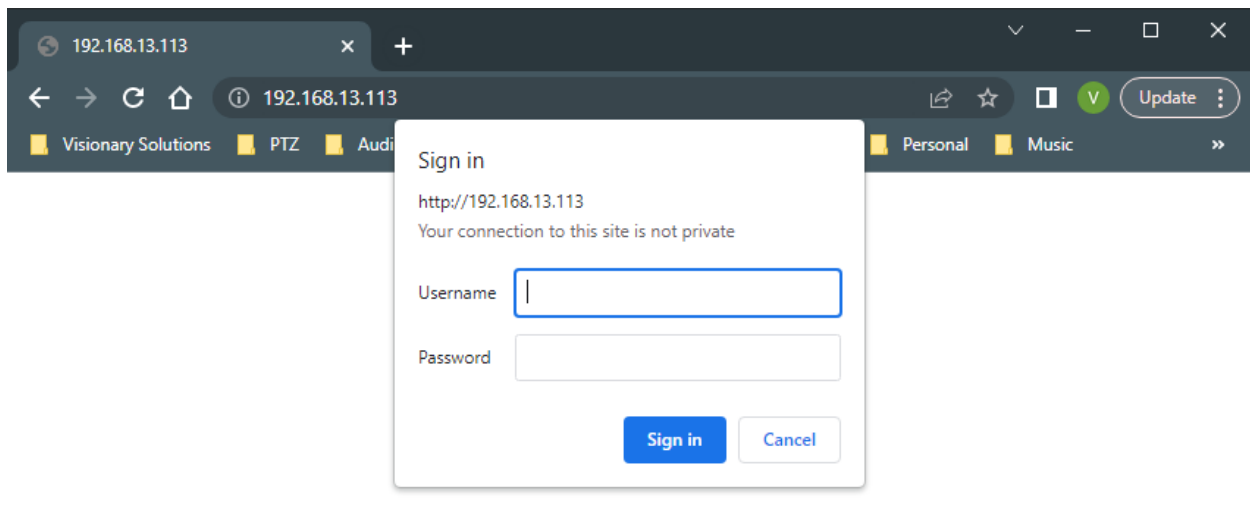
Note: Double-click the preview of a unit to open that unit's web UI from the Routing tab.

Web UI System Page

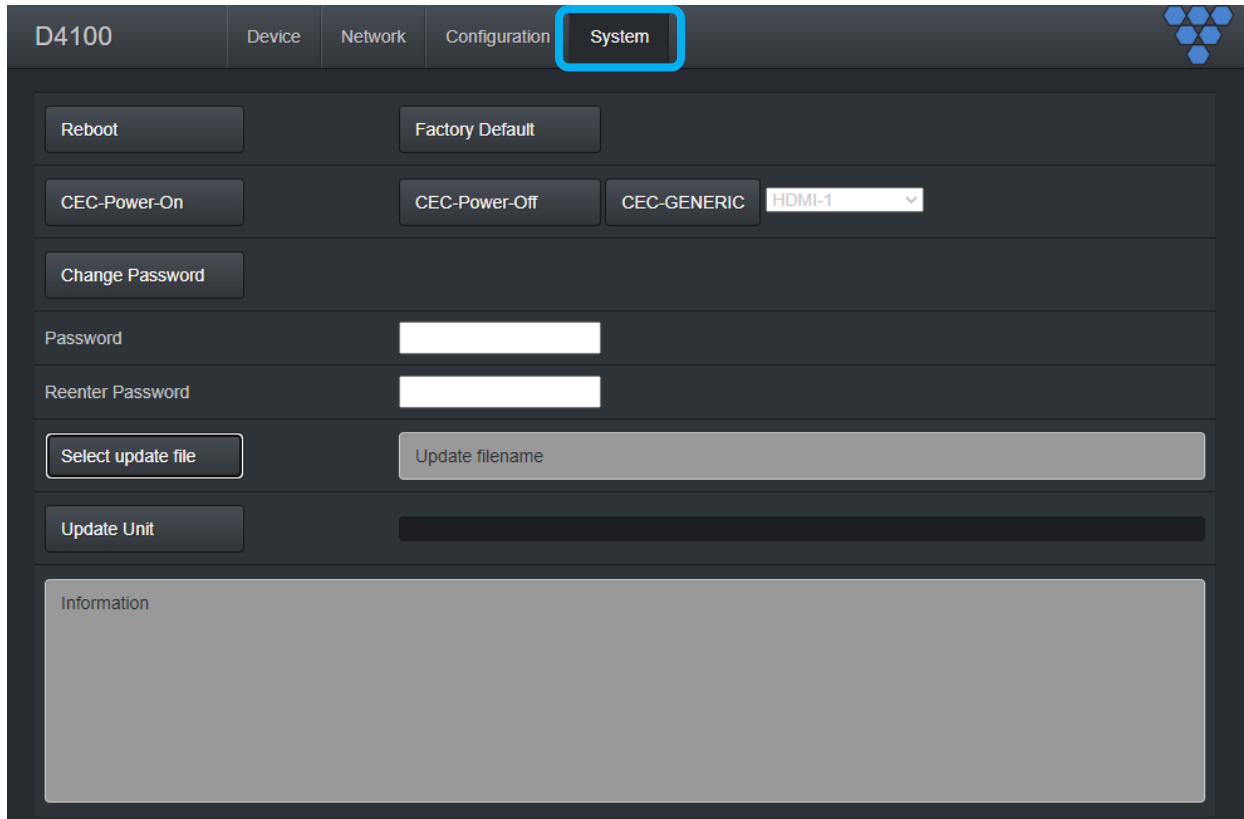
Individual firmware files may be uploaded to a 4000 Series encoder or decoder using the System page of the unit's web UI. To obtain the individual encoder or decoder firmware files, please contact support@visionary-av.com

Important: please contact Visionary support to obtain the firmware files, **DO NOT** attempt to upload the VLite.jar file to an encoder or decoder via their web UI System page. This may result in the unit needing to be sent to Visionary to be recovered.

1. Navigate to the encoder or decoder web UI.
 - a. http://<unit_IP_address>
 - b. Example: <http://192.168.8.101>
2. Log in with username=admin password=admin.



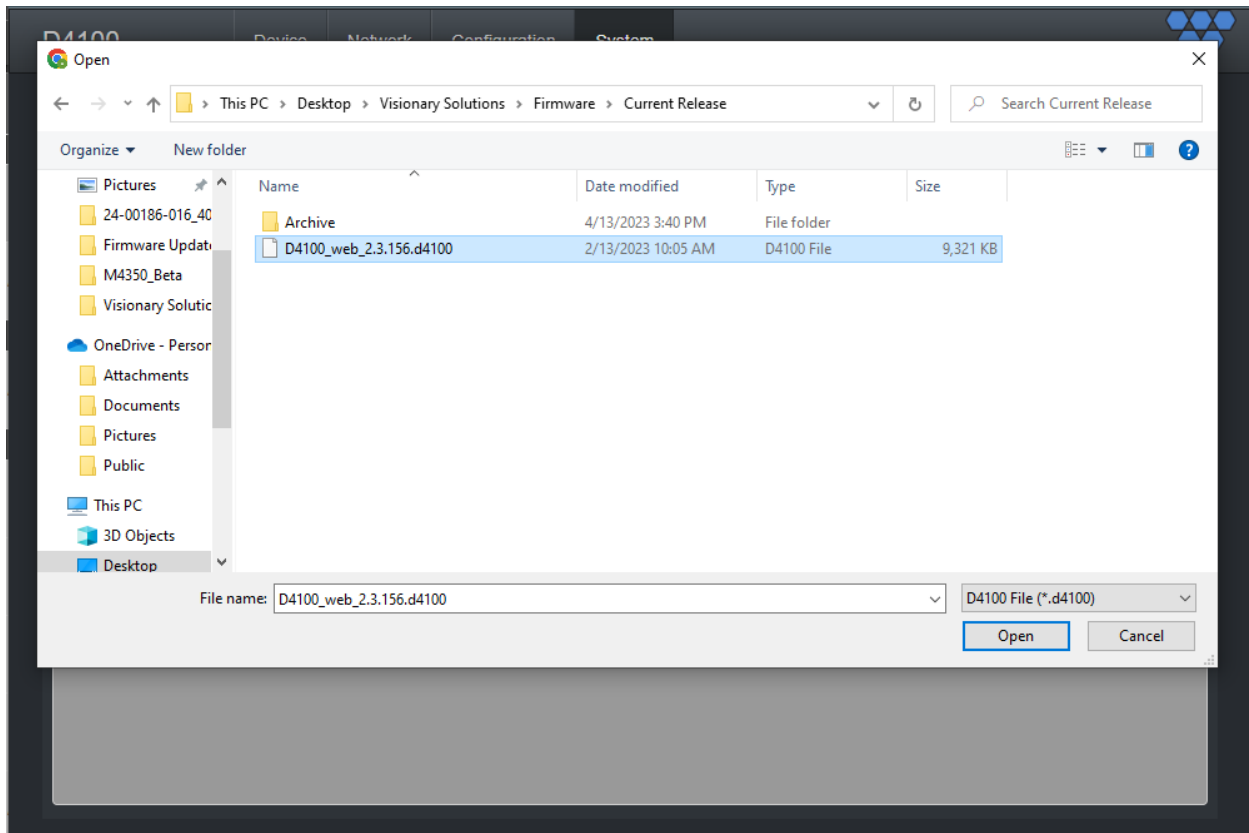
3. Navigate to the System page.



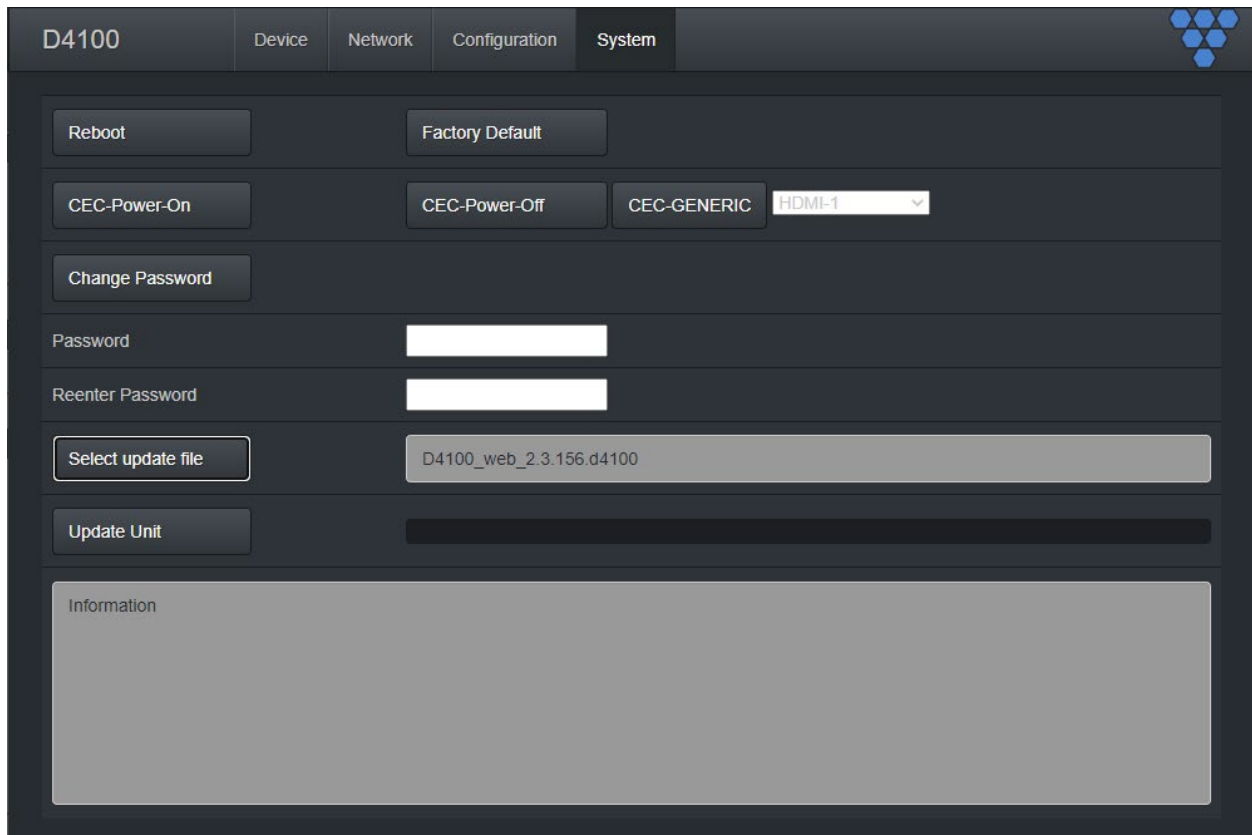
The screenshot shows the 'System' page of the Visionary D4100 web interface. The 'System' tab is highlighted with a blue border. The page contains several sections:

- Reboot** and **Factory Default** buttons.
- CEC-Power-On** and **CEC-Power-Off** buttons, and a **CEC-GENERIC** dropdown menu set to **HDMI-1**.
- Change Password** button.
- Password** and **Reenter Password** input fields.
- Select update file** button and **Update filename** input field.
- Update Unit** button and a progress bar.
- Information** section with a large grey area for details.

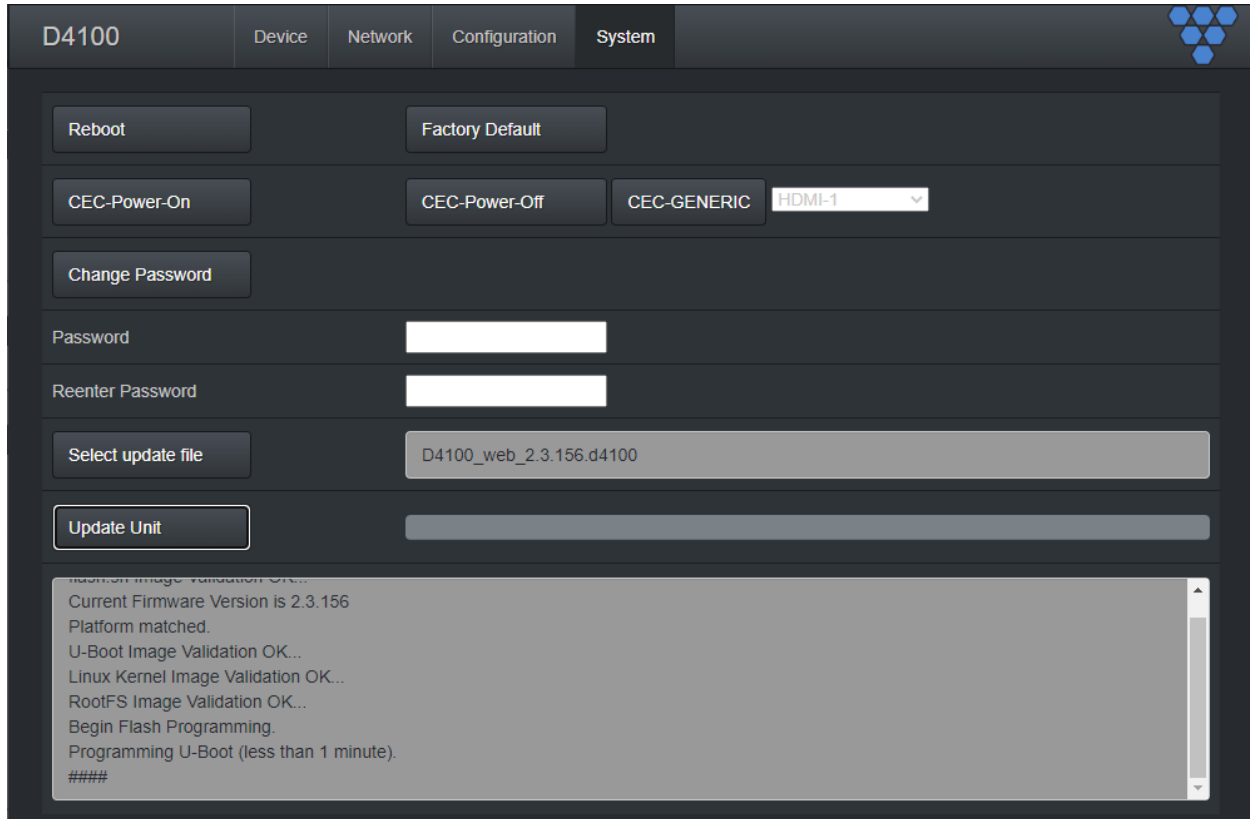
4. Click on the Select update file button.
5. Locate and select the desired firmware file.



6. Click the Update Unit button.
 - a. Firmware will be uploaded to the unit.
 - b. Status will be reported in the status window.
 - c. The update process will take approximately 10 minutes per unit.



The screenshot shows the web interface for a D4100 device. The top navigation bar includes tabs for Device, Network, Configuration, and System. The System tab is active. Below the navigation bar, there are several configuration options: Reboot, Factory Default, CEC-Power-On, CEC-Power-Off, CEC-GENERIC (with a dropdown menu set to HDM-1), Change Password, Password, Reenter Password, Select update file (with a text input field containing D4100_web_2.3.156.d4100), and Update Unit. The Update Unit button is highlighted with a red box. Below these options is an Information section, which is currently empty.



The screenshot shows the Visionary D4100 web interface. At the top, there are navigation tabs for "Device", "Network", "Configuration", and "System". The "System" tab is selected. Below the tabs, there are several sections:

- A "Reboot" button and a "Factory Default" button.
- CEC controls: "CEC-Power-On", "CEC-Power-Off", "CEC-GENERIC", and a dropdown menu set to "HDMI-1".
- A "Change Password" button.
- Fields for "Password" and "Reenter Password", both currently blank.
- A "Select update file" button and a text field containing the filename "D4100_web_2.3.156.d4100".
- An "Update Unit" button.
- A log window at the bottom showing the following text:

```
Current Firmware Version is 2.3.156
Platform matched.
U-Boot Image Validation OK...
Linux Kernel Image Validation OK...
RootFS Image Validation OK...
Begin Flash Programming.
Programming U-Boot (less than 1 minute).
####
```

Important: once the update has completed the encoder or decoder will reboot on their own as part of the update process. **DO NOT interrupt the update process or reboot the unity manually.** This may result in the unit needing to be sent to Visionary to be recovered.

Please contact Visionary support with any questions or for assistance: support@visionary-av.com