

arkalumen APT-CV2 Square LED Controller User Guide

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Connecting the APT Programmer

1. Connect the APT Programmer to the PC and controller as shown in Figure 1.

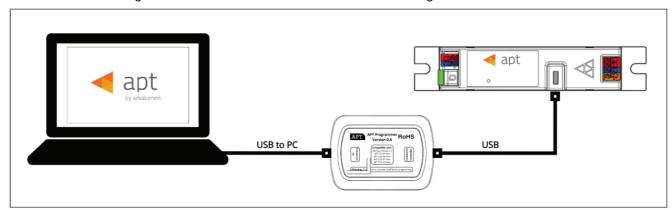


Figure 1: Wiring Diagram

Using the APT Programmer

Installing the APT Programmer Interface

- 1. Click on the provided link to download the APT Programmer Interface folder.
- 2. Open the folder APT Programmer Interface on a Windows-based PC, and select the file setup.exe
- 3. Launch setup.exe to install the APT Programmer Interface. The APT Programmer Interface shortcut will be added to the Start Menu.

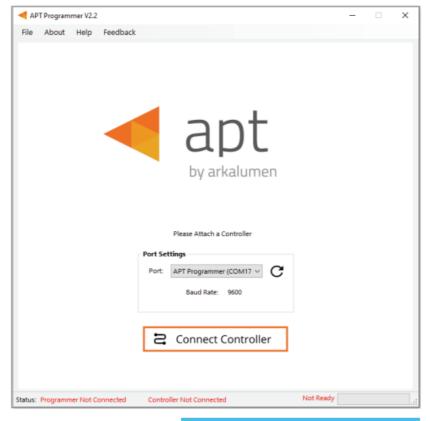


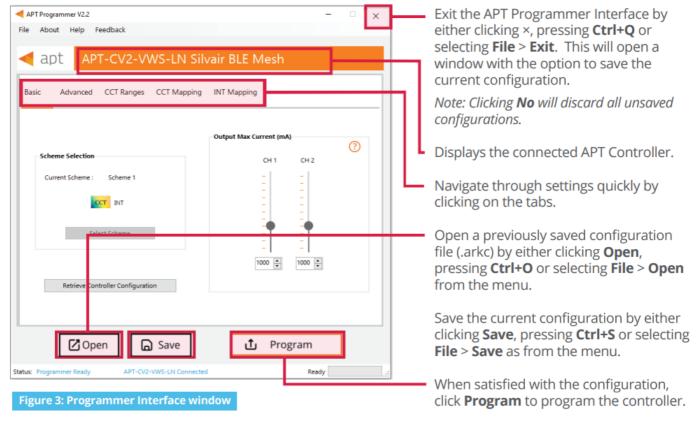
Figure 2: Programmer Connect window

Running the APT Programmer Interface

- 1. Launch the APT Programmer Interface software by selecting the application, **APT Programmer Interface**, from the Start Menu. The Programmer Connect window (shown in Figure 2) will open.
- 2. Select the COM port to which the APT Programmer is connected from the **Port** drop-down menu. If a COM port is not visible, click the **C** button until the correct port is visible.
- 3. Click **Connect Controller** to establish a connection. Once connected, the APT Programmer Interface window (shown in Figure 3) will open.

Note: Once connected, if the APT Programmer is not displayed in the port list, please run the CDM212364_Setup file sent with the APT Programmer software to install the drivers.

Using the Programmer Interface Window



The progress bar displays the status of the current task.



Displays **Programmer Ready**if the APT Programmer
Interface has successfully
connected to the APT
Programmer. If no connection
has been established, it will
read **Programmer Not Connected**.

Displays the currently connected APT Controller and its hardware version. If no connected APT controller is found, it will read **Controller Not Connected**.

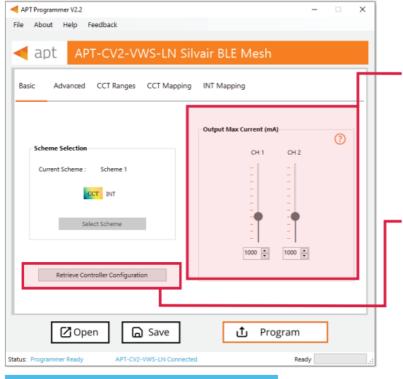
Figure 4: Programmer Interface window - Status Bar at bottom of window of Fig 3

THE Ready field in the Status Bar displays:

- Ready
- Not Ready
- · Successfully Programmed
- Retrieve Successful

• Wrong Controller Connect

Basic Tab

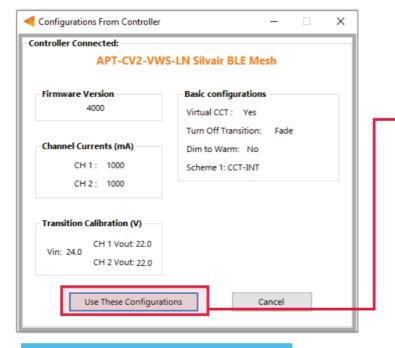


Output Max Current (mA) specifies the maximum current output of the two output channels of the APT Controller.

Note: Ensure these values are below the maximum allowable current of the output channels on the light engines to prevent damage to the LEDs.

Click **Retrieve Controller Configuration** to view the currently programmed configurations of the connected controller. A separate will open with the controller's configuration (shown in Figure 6).

Figure 5: Programmer Interface window - Basic tab

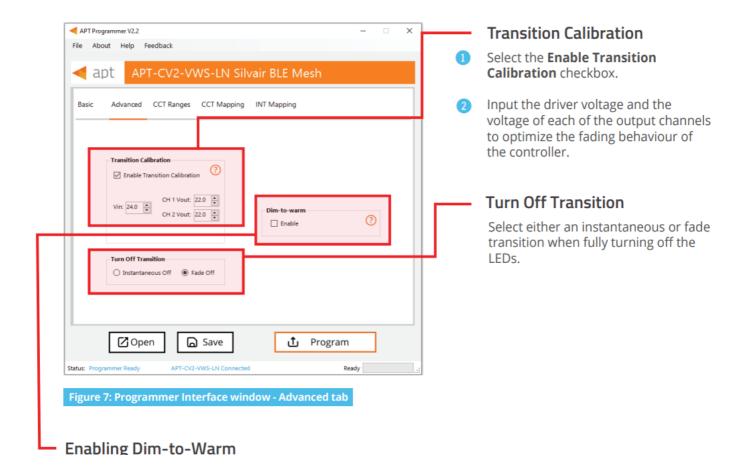


Click **Use These Configurations** to import the controller's current configuration into the APT Programmer Interface.

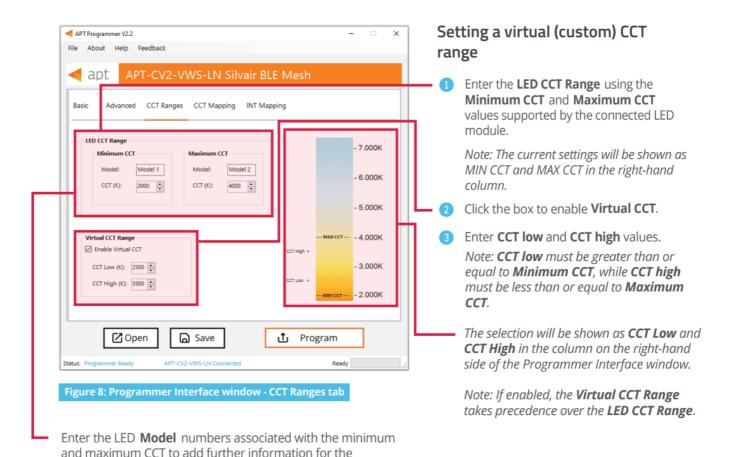
Note: All APT Programmer Interface settings will be changed to the controller's current configuration.

Figure 6: Configurations from Controller window

Advanced Tab



CCT Ranges Tab



CCT Mapping Tab

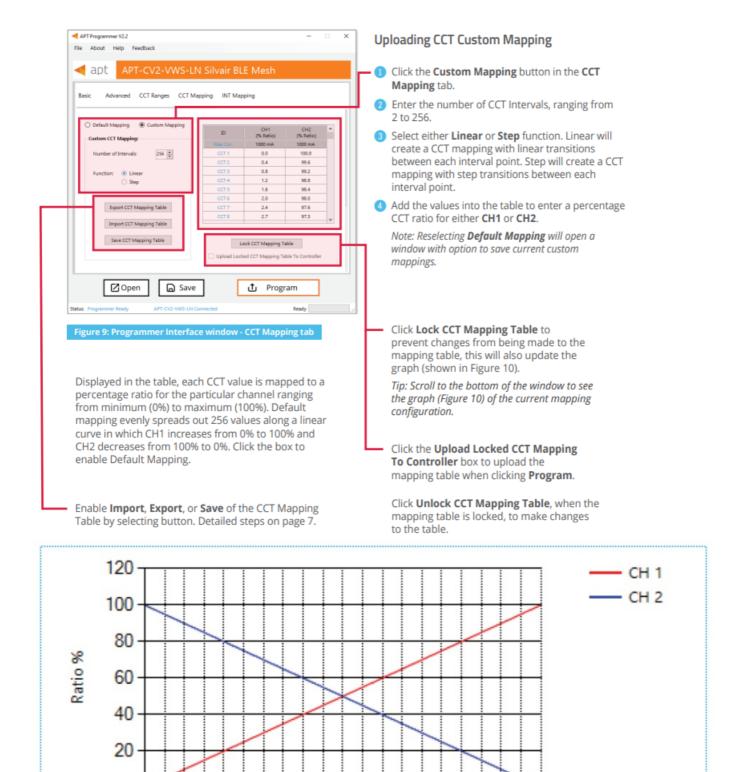


Figure 10: CCT mapping graph

Using Excel to Customize the mapping table

1. Click Export Mapping Table to generate a spreadsheet containing the mapping table that is currently open.

Input %

- 2. Modify the mapping table directly in the spreadsheet, make sure all editable cells contain a value.
- 3. Save the spreadsheet (.xlsx).

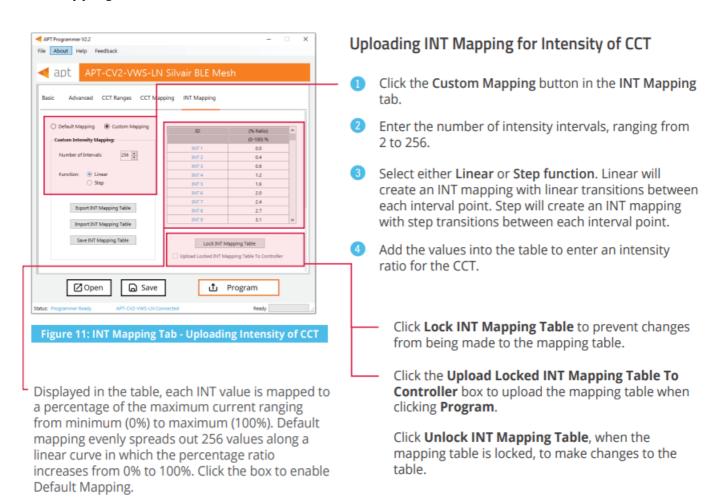
Saving the mapping table

- 1. Click Save Mapping Table to save the current mapping table.
- 2. Find a save location for the generated spreadsheet file (.xlsx) containing the mapping table that is currently open.
- 3. Name and save the file to the desired location.

Importing a previously saved mapping table

- 1. Click **Import Mapping Table** to open a previously saved mapping table in the APT Programmer Interface.
- 2. Select a previously saved mapping table spreadsheet file (.xslx) in the file browser.
- 3. Click **Open** in the file browser, to import the file. If the spreadsheet is formatted correctly, it will be successfully imported otherwise an error message will be displayed and the file will not be imported.

INT Mapping Tab



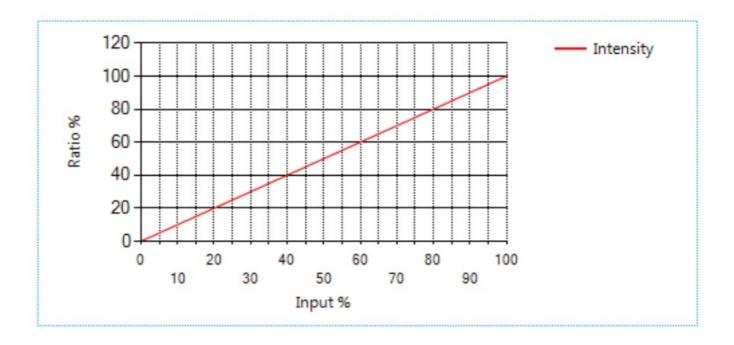


Figure 12: Intensity Mapping graph for the CCT

Using Excel to Customize the INT mapping table

- 1. Click Export INT Mapping Table to generate a spreadsheet containing the mapping table that is currently open.
- 2. Modify the mapping table directly in the spreadsheet without changing the formatting.
- 3. Save the spreadsheet (.xslx).

Saving the INT mapping table

- 1. Click Save INT Mapping Table to save the current mapping table.
- 2. Find a save location for the generated spreadsheet file (.xslx) containing the mapping table that is currently open.
- 3. Name and save the file in the desired location.

Importing a previously saved INT mapping table

- 1. Click **Import INT Mapping Table** to open a previously saved mapping table in the APT Programmer Interface.
- 2. Select a previously saved mapping table spreadsheet file (.xslx) in the file browser.
- 3. Click **Open** in the file browser to import the file; if the spreadsheet is formatted correctly, it will be successfully imported.

Tip: Scroll to the bottom of the window to see graph (shown in Figure 9) of the current INT mapping configuration.

Generating Labels

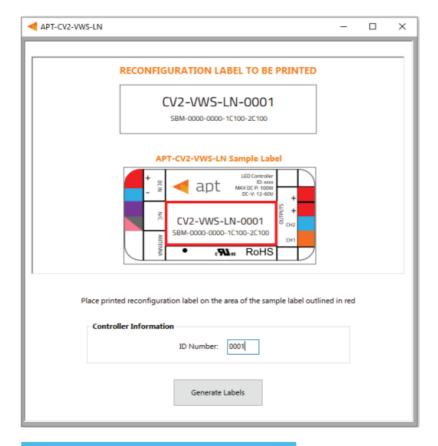


Figure 13: Label Generation window

- 1. Select File > Generate Label or press Ctrl +L to open the Label Generation window (shown in Figure 13).
- 2. Input the 4-digit ID Number written on the original label (shown in Figure 13). The ID Number indicates the production build of the APT Controller.
- 3. Click Generate Labels.
- 4. Input the starting and finishing rows and columns that will fit on the back or front labels. The selected range is highlighted in blue (Figure 14).
- 5. Select **Print Full Range** to print the whole page.
- Click Generate Labels, the default web browser will open and display a preview of the print.
 Note: Arkalumen recommends using Google Chrome and setting margins to None in the printing options.

To obtain blank labels, contact Ark lumen or visit onlinelabels.com/products/ol1930lp When ordering, Ark lumen recommends selecting Weatherproof Polyester labels in a material suited for your printer.

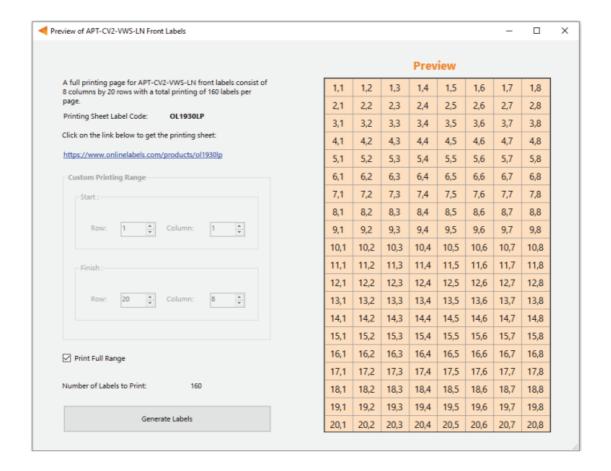


Figure 14: Label generation print preview window

Generating a Report

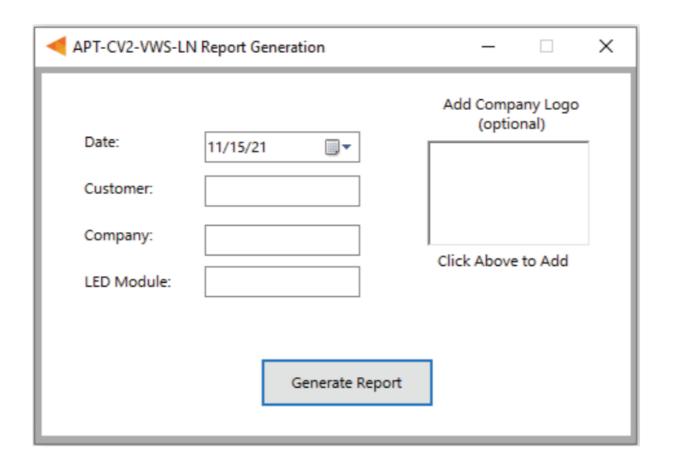


Figure 15: Report Generation window

Configuration Report 11/15/21 Light Engine: Controller: APT-CV2-VWS-LN Configuration Info Firmware Version: Control Features: Intensity - CCT Fade to Off: Dim to Warm: Vin: 24.0 V **Output Max Current** Channel 1: 1000 mA 22.0 V Channel 2: 1000 mA 22.0 V

Figure 16: Example of the first page of a

generated report

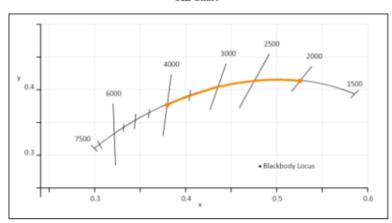
1. Select **File > Generate Report**, or press **Ctrl+R**, to open the Report Generation Window (shown in Figure 15).

- 2. Enter the Date, Customer, Company, and Light Engine part number to customize the report.
- 3. Click on the white box under **Add Company Logo** to include a logo in the report (optional).
- 4. Select the desired logo (.jpg) in the file browser and click **Open** (optional).
- 5. Click **Generate Report**, the default web browser will open and display a preview of the print (shown in Figures 16 & 17).

Note: Arkalumen recommends using Google Chrome and setting margins to None in the printing options.

Configuration Report





LED 1 Model :	Model 1	LED 2 Model :	Model 2
LED CCT 1:	2000 K	LED CCT 2:	4000 K
Virtual CCT 1:	2500 K	Virtual CCT 2:	3500 K

Figure 17: Example of the second page of a generated report

If at any time you have comments or suggestions regarding the APT Programmer or APT Controller, please click on the **Feedback** tab in the top menu bar to submit information to our team. We appreciate all feedback and are committed to continuously improving our products. For immediate support, please contact the Ark lumen team at 1-877-856-5533 or email support@arkalumen.com



Documents / Resources



arkalumen APT-CV2 Square LED Controller [pdf] User Guide APT-CV2 Square LED Controller, APT-CV2, Square LED Controller, LED Controller, Controller

References

- Blank & Custom Labels | OnlineLabels®
- 1" x 0.5" Labels Weatherproof Polyester Laser OL1930LP

Manuals+,