

arkalumen APT-CV5 Linear LED Controller Installation Guide

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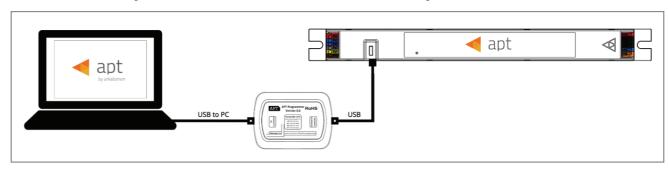
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arkalumen APT-CV5 Linear LED Controller

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Connecting the APT Programmer

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



Using the APT Programmer

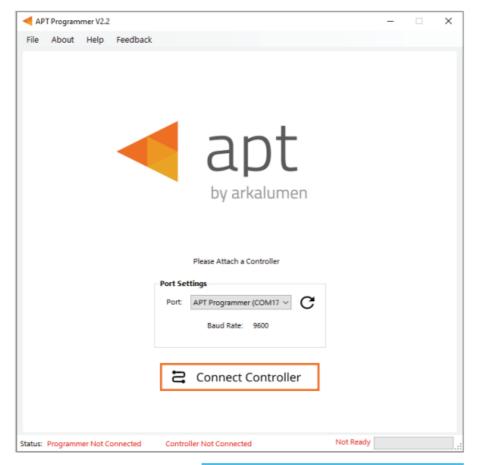


Figure 2: Programmer Connect window

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.

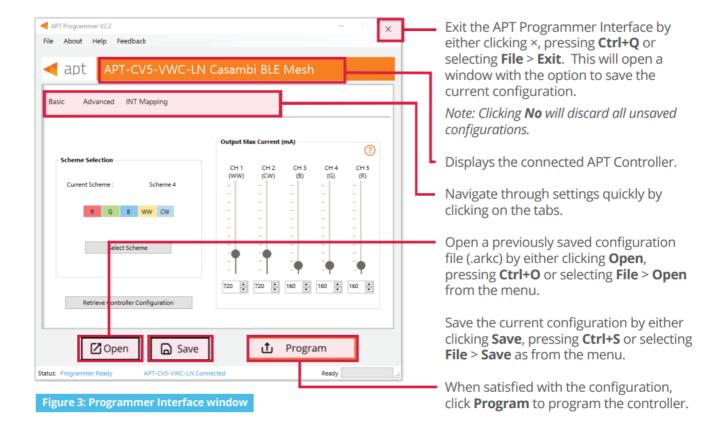
Installing the APT Programmer Interface

- 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.

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 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.

Using the Programmer Interface Window



The Ready field in the Status

Bar displays:

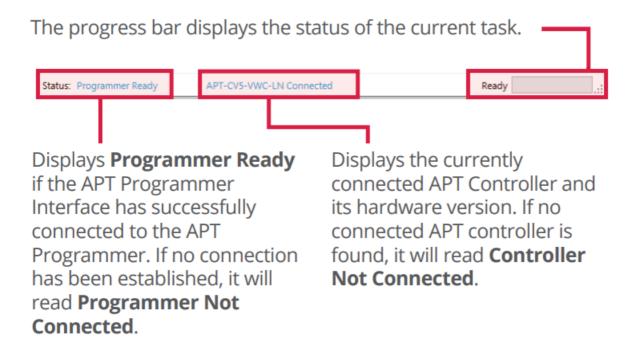
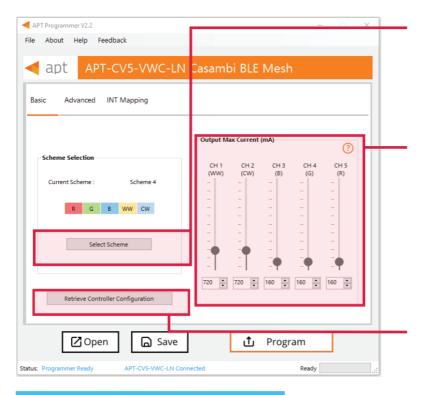


Figure 4: Programmer Interface window - Status Bar at bottom of window of Fig 3

- Ready
- Not Ready

- · Successfully Programmed
- · Retrieve Successful
- Wrong Controller Connected
- · No Controller identified

Basic Tab



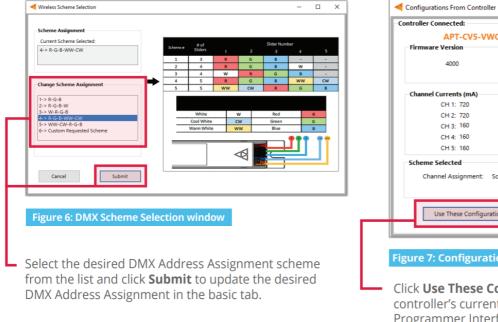
Click **Select Scheme** to change the assignment of addresses to different output channels and/or calibrate control levels for CCT and master intensity (shown in Figure 6).

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 7).

Figure 5: Programmer Interface window - Basic tab



Configurations From Controller

Controller Connected:

APT-CV5-VWC-LN Casambi BLE Mesh

Firmware Version

4000

Channel Currents (mA)

CH 1: 720

CH 2: 720

CH 2: 720

CH 3: 160

CH 4: 160

CH 4: 160

CH 5: 160

CH 5: 160

CH 5: 160

CH 6: 5 Vout: 16.0

CH 5: 160

CH 6: 5 Vout: 16.0

Scheme Selected

Channel Assignment: Scheme 4 (R-G-B-WW-CW)

Figure 7: Configurations from Controller window

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.

Advanced Tab

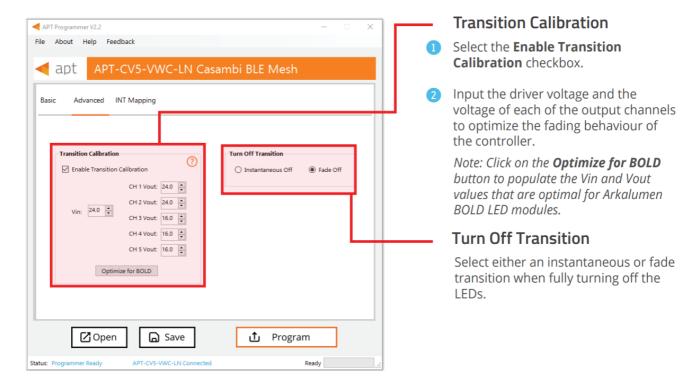
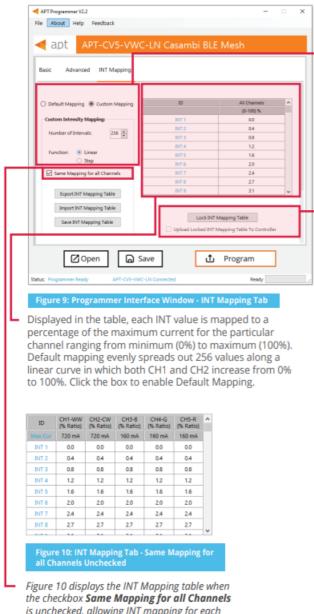


Figure 8: Programmer Interface window - Advanced tab

INT Mapping Tab



is unchecked, allowing INT mapping for each Channel individually.

Uploading Intensity Mapping for Individual Channel control

- Select a scheme that includes Individual Channel Control in the Basic Tab.
- Click the Custom Mapping button in the INT Mapping tab.
- Enter the number of Intensity intervals, ranging from 2 to 256.
- Select either Linear or Step function. Linear will create a INT mapping with linear transitions between each interval point. Step will create an INT mapping with step transitions between each interval point.

Tip: Click the Same Mapping for All Channels box to make the INT mappings identical for all channels CH1/CH2.

Add the values into the table to enter a percentage of the maximum current for either CH1 or CH2.

Note: Reselecting Default Mapping will open a window with the option to save the current custom mappings.

Click Lock INT Mapping Table to prevent changes from being made to the mapping table.

Click the Upload Locked INT Mapping Table To Controller box to upload the mapping table when clicking Program.

Click Unlock INT Mapping Table, when the mapping table is locked, to make changes to the table.

Using Excel to Customize the INT mapping table

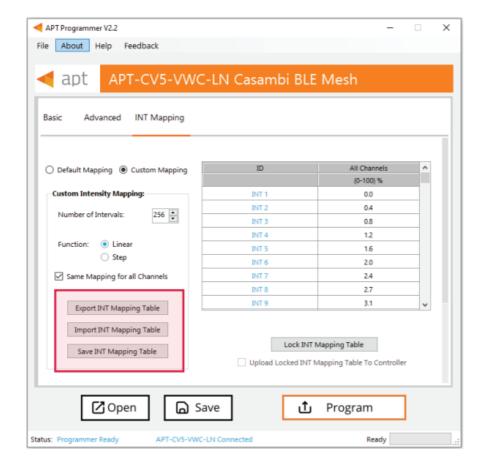


Figure 11: INT Mapping Tab - Uploading Intensity of CCT when Same Mapping for All Channels is unchecked

- 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 graphs (shown in Figures 12 & 13) of the current INT mapping configuration.

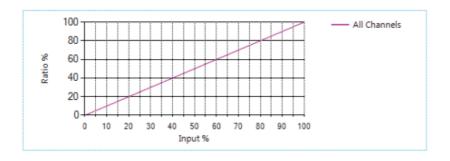


Figure 12: INT Mapping graph for all channels



Figure 13: INT Mapping graphs for each channel

Generating Labels

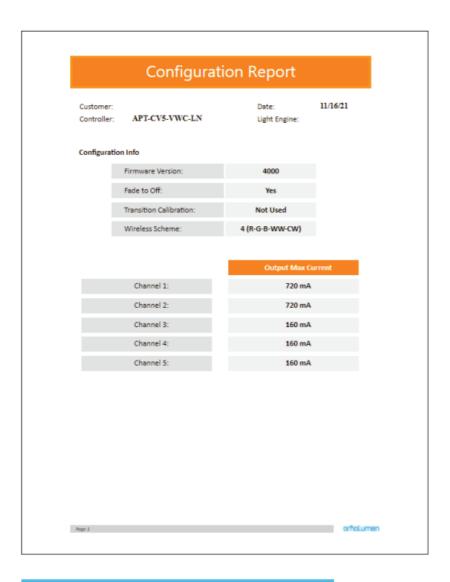


Figure 17: Example of the first page of a generated report

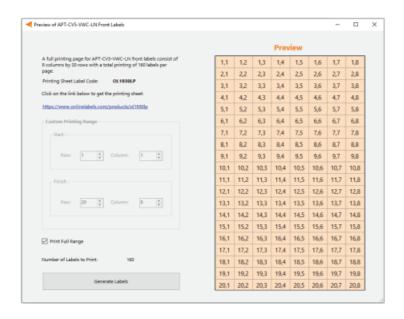


Figure 15: Label generation print preview window

- 1. Select File > Generate Label or press Ctrl +L to open the Label Generation window (shown in Figure 14)
- 2. Input the 4-digit ID Number written on the original label (shown in Figure 14). 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 15).
- 5. Select Print Full Range to print the whole page.
- 6. 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 Arkalumen or visit onlinelabels.com

Labels: https://www.onlinelabels.com/products/ol1930lp

When ordering, Arkalumen recommends selecting Weatherproof Polyester labels in a material suited for your printer.

Generating a Report

1. Select File > Generate Report, or press Ctrl+R, to open the Report Generation Window (shown in Figure 16).

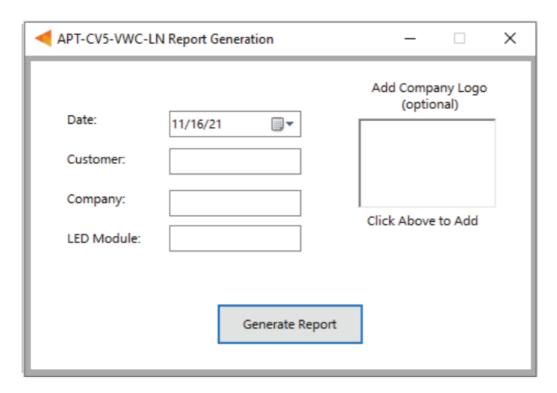


Figure 16: Report Generation window

- 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 Figure 17).

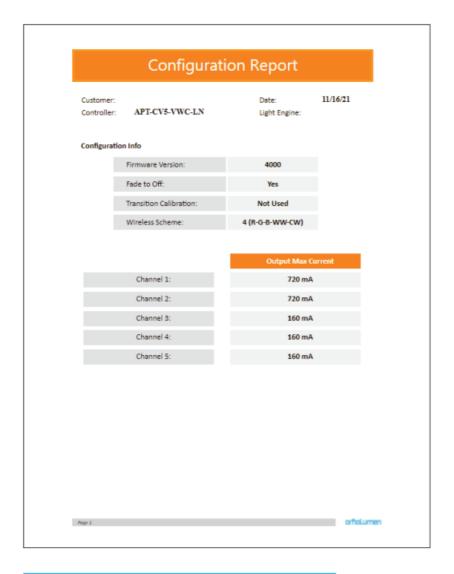


Figure 17: Example of the first page of a generated report

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 Arkalumen team at 1-877-856-5533 or email support@arkalumen.com

Arkalumen designs and manufactures intelligent LED controllers and custom LED modules for light fixture manufacturers in order to enable energy efficient and feature rich lighting solutions. For over 10 years, Arkalumen has focused on simple, flexible, cost effective solutions that allow highly differentiated fixtures to be launched in commercial, industrial, and residential markets. With 30+ patents, we have a history of driving innovation within the lighting industry and are proud to push the limits of what lighting in applications in education, healthcare, film and horticulture can be.

Proudly engineered and assembled in North America.

Visit **Arkalumen.com** to see our full product portfolio



For any further support please contact Arkalumen

support@arkalumen.com

toll free at 1.877.865.5533

Arkalumen.com

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Documents / Resources



<u>arkalumen APT-CV5 Linear LED Controller</u> [pdf] Installation Guide APT-CV5 Linear LED Controller, APT-CV5, Linear LED Controller, Controller

Manuals+,