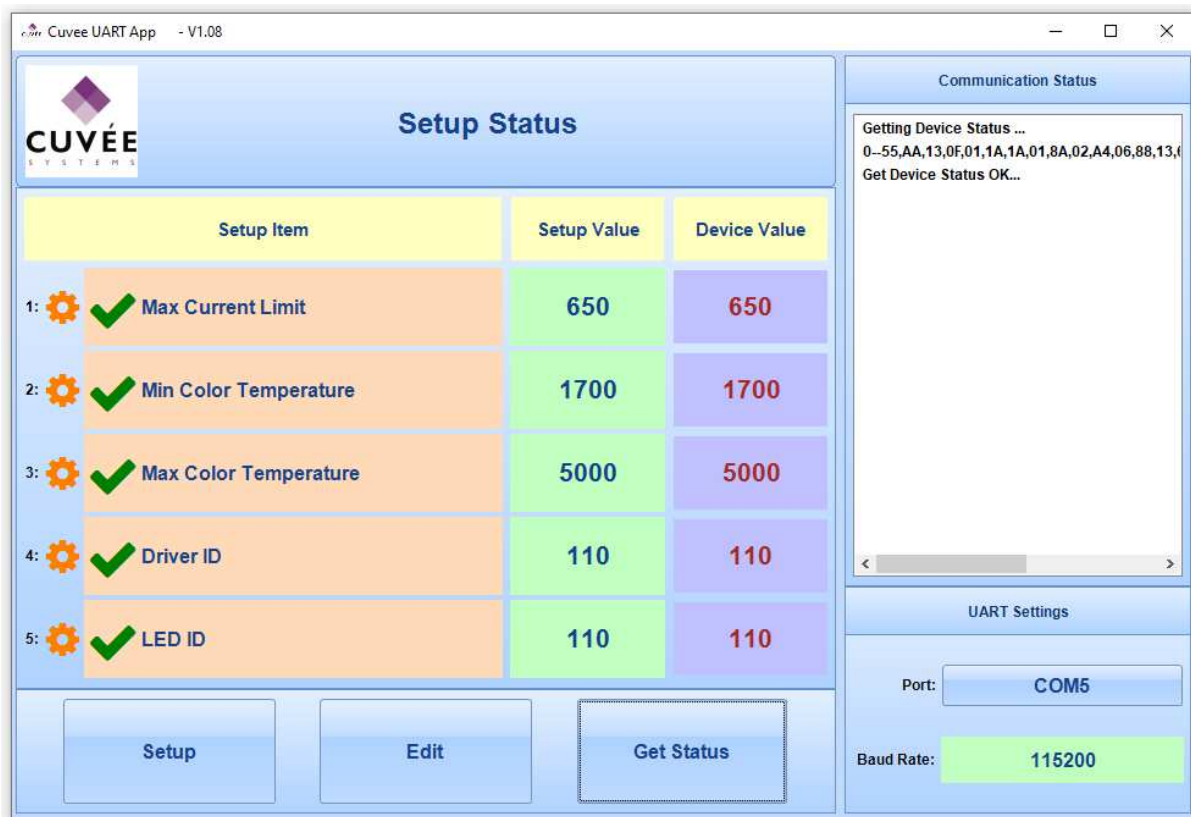




Programming Guide for DMR-AOD Series LED Driver

The Cuvée programming tool for Cuvée’s CCT Tunable Driver family – DMR-AOD (i.e. DMR-AOD042/2-PC1K1-40) gives the users the ability to program driver in production or in the field. No external power to the driver is required.

1.0 Introduction

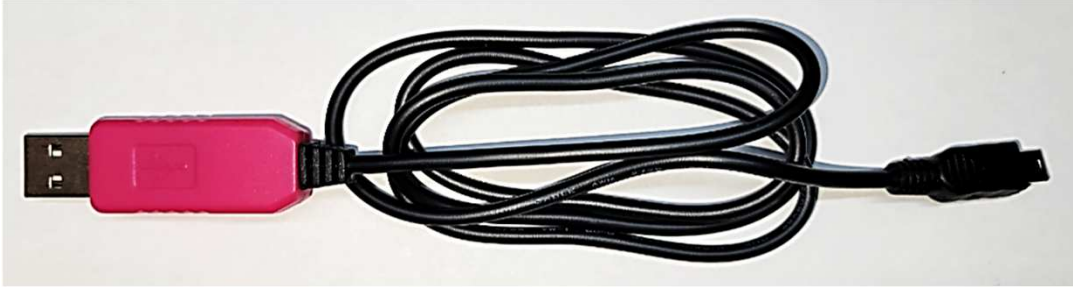


Cuvée programming tool uses is compatible with computer desktop application Windows 10 Operating Systems. This software provides a Graphical User Interface (GUI), for connecting to, configuring, and reading from all DMR-AOD Series drivers.





DMR-PROG-USB



The DMR-PROG-USB cable is provided for configuring Cuvée's DMR-AOD family LED drivers. Use the USB port to connect the computer to the driver's mini-USB port.

Power is supplied by DMR-PROG-USB cable allowing the user to configure a driver without the need to apply AC power.

2.0 Tools Installation

Required Drivers and Files

2.1 Install the USB-UART Driver

The SiLab USB UART driver "CP210x USB to UART Bridge" will be needed with Cuvée UART APP and DMR-PROG-USB programming cable. If this is the first time you are installing the tool onto your computer, please also download and install this driver file. Please download this SiLab USB UART driver from:

<https://www.silabs.com/developers/usb-to-uart-bridge-vcp-drivers>

Pick the "CP210x Universal Windows Driver", or direct downloaded from this link

https://www.silabs.com/documents/public/software/CP210x_VCP_Windows.zip





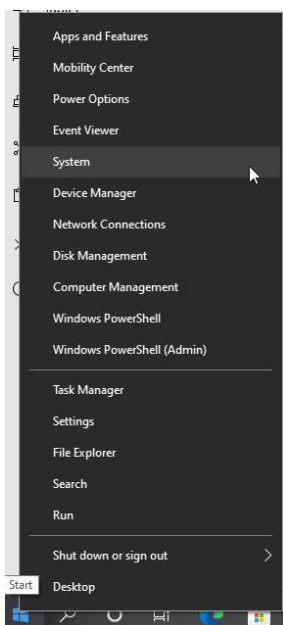
Then, unzip the downloaded tool, you should find the following files:

Name	Type	Compressed size	Password ...	Size	Ratio	Date modified
arm	File folder					1/13/2021 3:11 PM
arm64	File folder					1/13/2021 3:11 PM
x64	File folder					1/13/2021 3:11 PM
x86	File folder					1/13/2021 3:11 PM
CP210x_Universal_Windows_Driver_R...	Text Document	8 KB	No	26 KB	70%	1/13/2021 3:08 PM
<input checked="" type="checkbox"/> CP210xVCPInstaller_x64.exe	Application	319 KB	No	1,026 KB	69%	1/8/2021 11:47 PM
<input checked="" type="checkbox"/> CP210xVCPInstaller_x86.exe	Application	309 KB	No	903 KB	66%	1/8/2021 11:47 PM
dpinst.xml	XML Document	1 KB	No	12 KB	97%	1/8/2021 11:15 PM
silabser.cat	Security Catalog	7 KB	No	13 KB	52%	1/13/2021 10:09 AM
silabser.inf	Setup Information	2 KB	No	11 KB	83%	1/13/2021 10:09 AM
SLAB_License_Agreement_VCP_Wind...	Text Document	4 KB	No	9 KB	62%	1/13/2021 10:09 AM

Depends on your PC configuration, you should pick either of the following file and double click the executable file:

- CP210xVCPInstaller_x64.exe (for 64-bit operating system, x64-based processor)
- CP210xVCPInstaller_x86.exe (for 32-bit operating system, x86-based processor)

If you are not sure about your PC configuration, you can right click on “Windows” icon (at the bottom left corner), click on “System”, the pop-up window will show your PC system info (i.e. below picture shown the PC with x64-based processor)



About

Your PC is monitored and protected.

[See details in Windows Security](#)

Device specifications

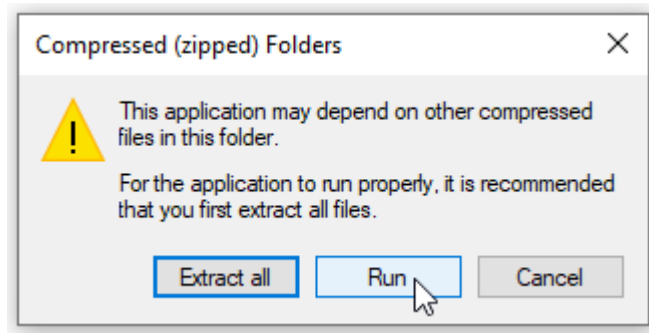
Device name	LAPTOP-KH5LIPU2
Processor	Intel(R) Core(TM) i5-8350U CPU @ 1.70GHz 1.90 GHz
Installed RAM	16.0 GB (15.8 GB usable)
Device ID	2F8BB746-A383-4019-8F34-3E7C8FB8BB2E
Product ID	00330-51847-41107-AAOEM
System type	64-bit operating system, x64-based processor
Pen and touch	Touch support with 10 touch points

Copy

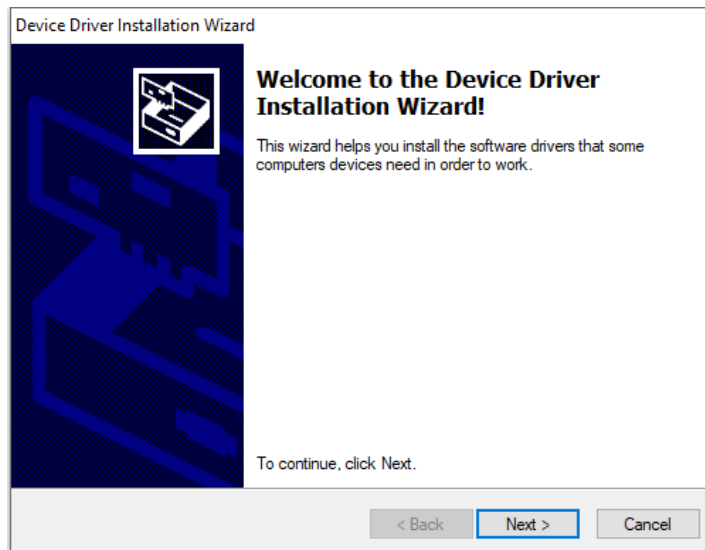




After you double clicked on the “CP210xVCPInstaller_x64.exe” (or CP210xVCPInstaller_x86.exe),



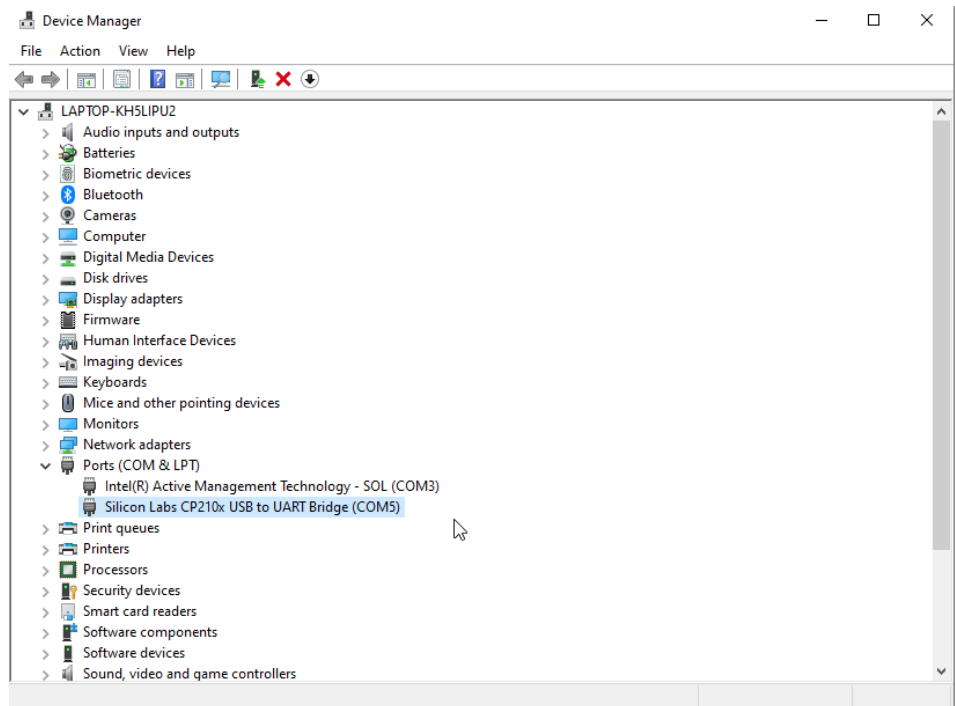
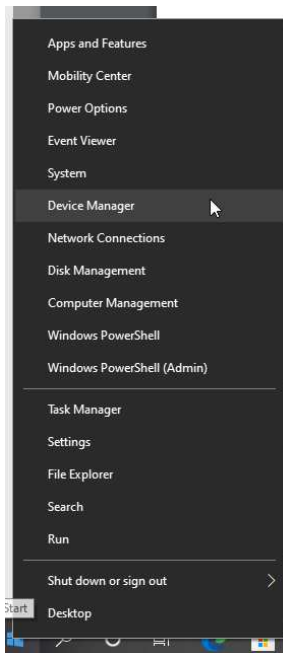
After you double clicked on the “CP210xVCPInstaller_x64.exe” (or CP210xVCPInstaller_x86.exe), just go through the installation process.





After the installation completed, you should plug the Cuvee’s DMR-PROG-USB cable to one of the USB port on your PC. We have to find out which COM port has been assigned to this programming cable

1. Right click on “Windows” icon (at the bottom left corner)
2. click on “Device Manager”
3. From the pop-up window, scroll down to “Ports (COM & LPT)”, you should find the “Silicon Labs CP210x USB to UART Bridge (COM X)”. Write down the COM port number as you will need it when you use the Cuvee UART APP in next step.
 - For example, this PC assigned the Cuvee’s DMR-PROG-USB to COM 5 (your PC may assign different COM port for your case)





2.2 Install the Cuvee UART APP

The Cuvee UART APP can be downloaded from Cuvee’s website. You will need to fill a simple form in order to grant the access right for downloading this tool. Please visit Cuvee website for more details: <http://cuveesystems.com/solution-portfolio/cct-tunable-dimmer-and-driver/>

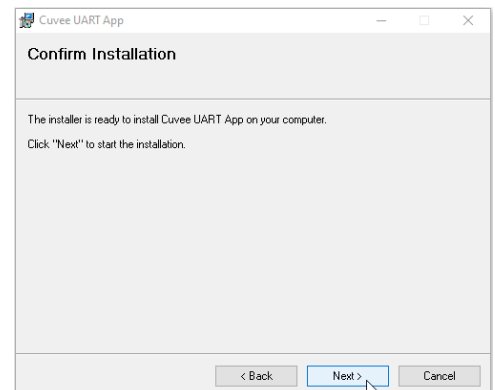
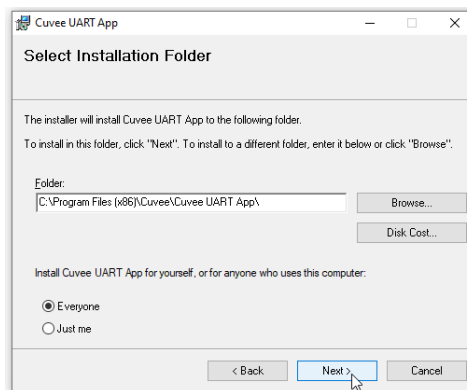
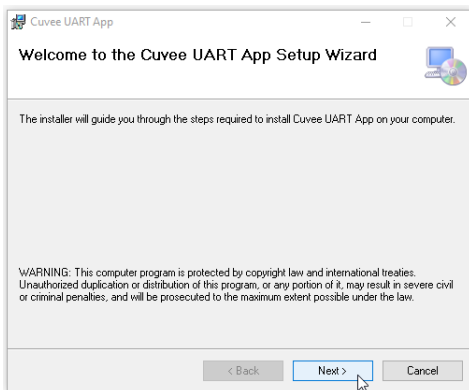
- Cuvee_UART_App_V1_08.zip



Unzip the file “Cuvee_UART_App_V1_08.zip”, you should find the following files

<input type="checkbox"/> Name	Date modified	Type	Size
old	9/8/2021 3:07 PM	File folder	
Cuvee_UART_App_V1_08.zip	12/10/2020 4:25 PM	Compressed (zipp...	2,738 KB
DeviceToolsInstaller.msi	12/10/2020 1:06 AM	Windows Installer ...	2,853 KB
<input checked="" type="checkbox"/> setup.exe	12/10/2020 1:06 AM	Application	531 KB

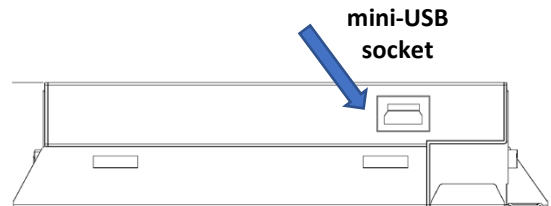
Double click the “setup.exe”, go through the typical installation process



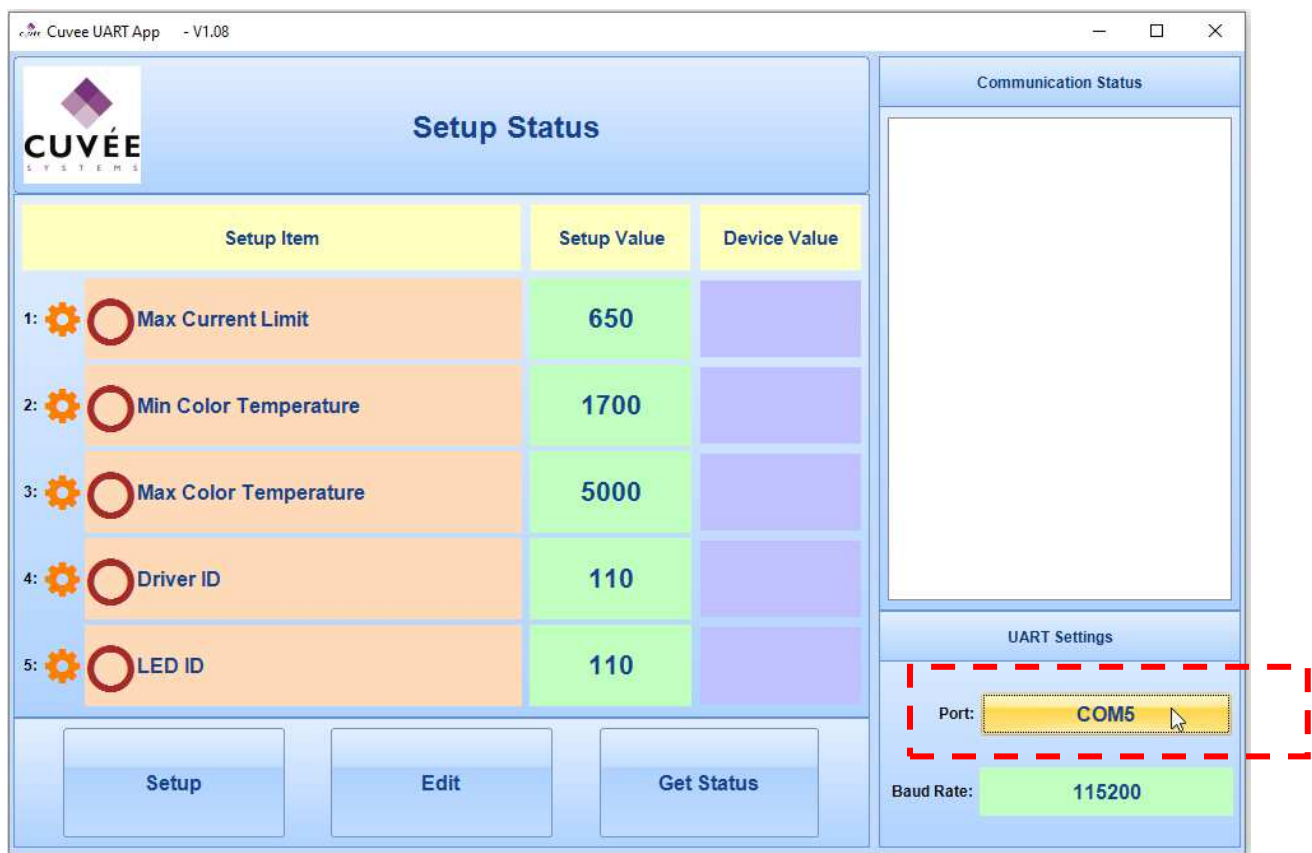


3.0 Cuvee UART App Operation – First time operation

The DMR series driver can be programmed by inserting the mini-USB plug into the driver and by plugging the USB other end of the cable into a computer. ***The driver does not need to be powered on during the programming process.***



Launch the Cuvee UART APP



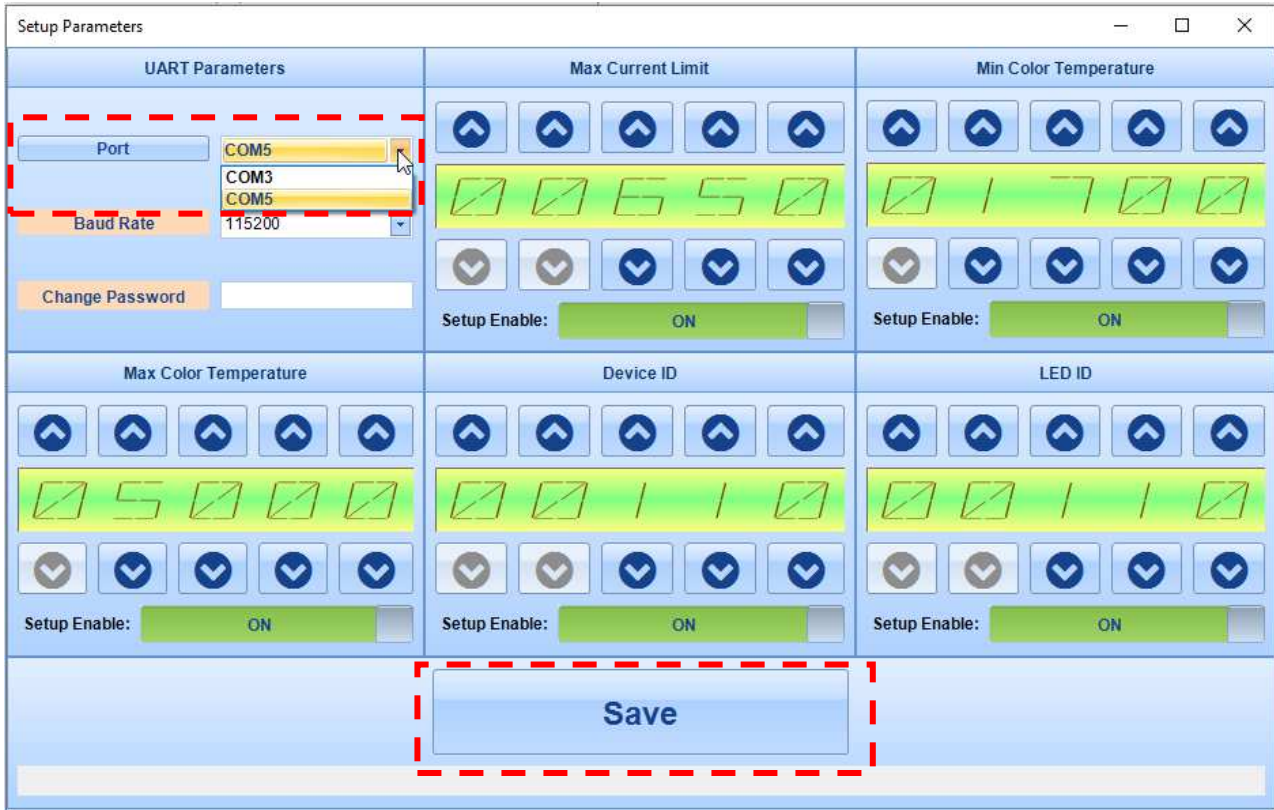
Check if the software assign the correct COM port for you. You should know the correct COM port for Cuvee’s DMR-PROG-USB (you’ve just gone through the setup on p.5). For this example, we know COM 5 is the correct one. So, we are ready for programming.

In case your PC assign different COM port for you, you can go ahead to click on the “Port” button (shown as “COM 5” one above





The Setup page will be launched. From this Setup page, you can change the COM port setting if needed. You can select the correct COM port from “UART Parameters/Port” session. Also, set the “Baud Rate” to 115200.



After select the correct COM port, go ahead to click on “Save” button to save this setting.



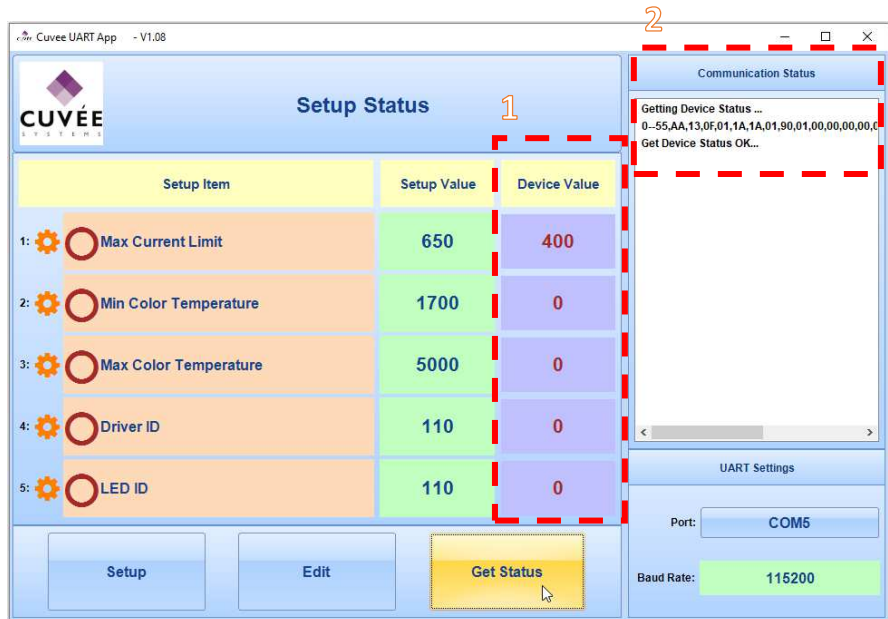
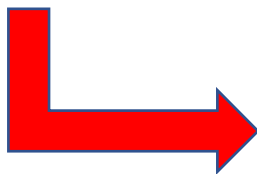
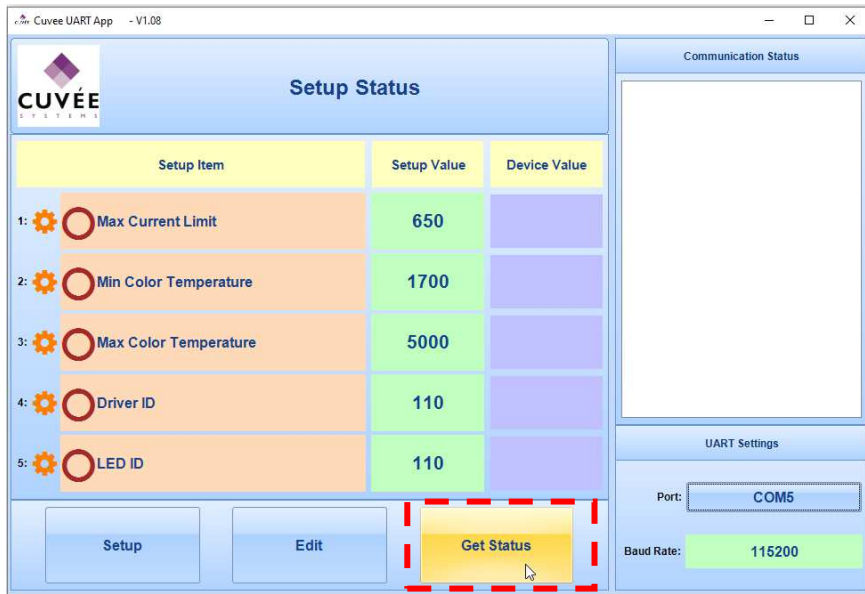


3.1 Cuvee UART App Operation – normal operation

Launch the Cuvee UART APP, you should see the APP main screen.

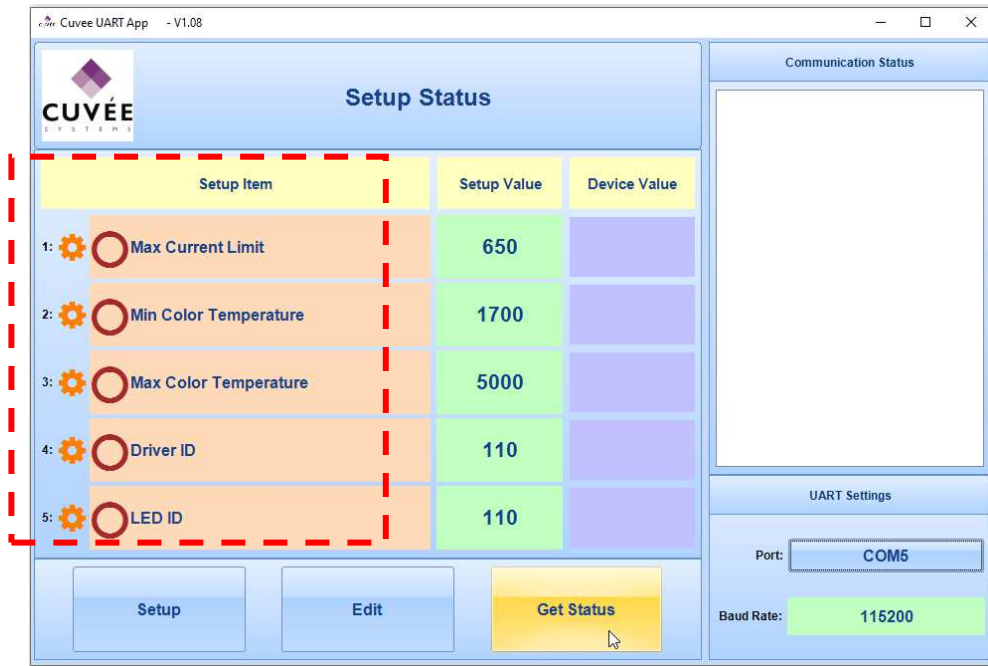
To prove the connection is good, you on click on the “Get Status” button at the bottom, you should see:

1. “Device Value” to report the stored parameters in the driver
2. In the “Communication Status” window on right hand side, you can also see the reported status of communication between the APP and driver





3.2 Programmable Parameters



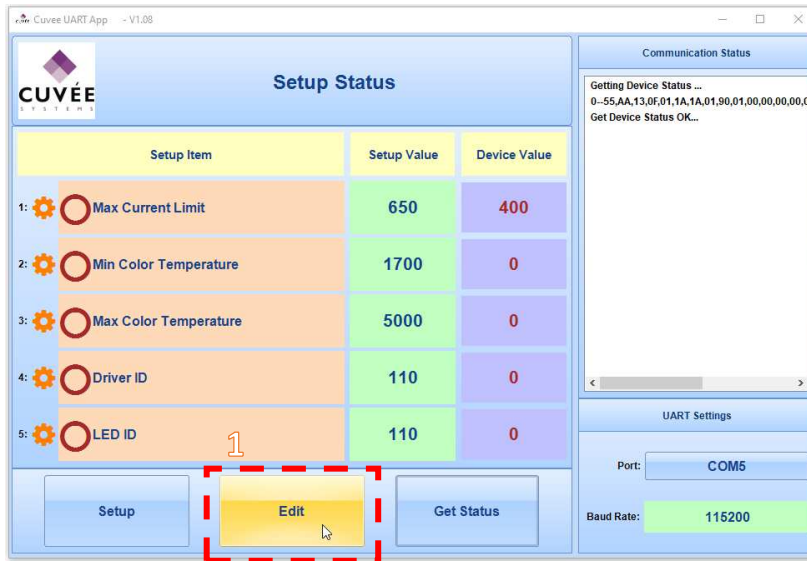
Max_Current Limit	<p>Program the Output Current of the driver Pre-set driver max total output current (combined Output Current for Channel 1 + 2)</p> <ul style="list-style-type: none"> Min = 150mA Max = 1050mA Step size = 2mA (450 steps)
Min. Color Temperature	<p>Allow user to store the parameter for future use (i.e. User defined app or external controller to read out this stored parameter) → Allow user to define the min. CCT of the light fixture</p>
Max. Color Temperature	<p>Allow user to store the parameter for future use (i.e. User defined app or external controller to read out this stored parameter) → Allow user to define the max. CCT of the light fixture</p>
Driver ID	<p>Allow user to store the parameter for future use (i.e. User defined app or external controller to read out this stored parameter) → Allow user to recognin the driver type or model</p>
LED ID	<p>Allow user to store the parameter for future use (i.e. User defined app or external controller to read out this stored parameter) → Allow user to recognin the LED type or model</p>





3.3 How to edit the driver setting / stored parameters

To change the driver setting / stored parameters, just click on the “Edit” button at the bottom



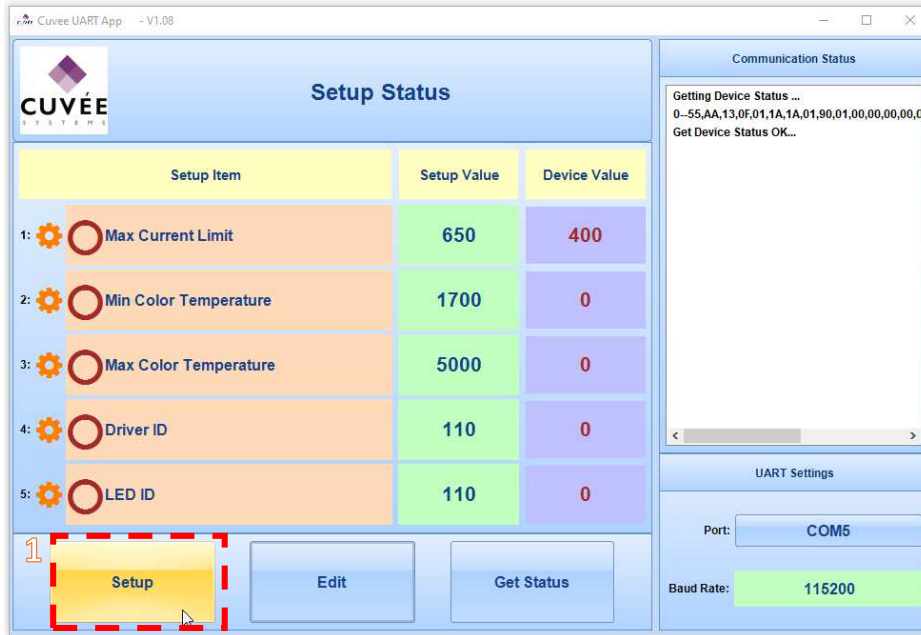
To change the driver setting / stored parameters,

1. just click on the “Edit” button at the bottom to launch the Setup Parameters Window (as shown)
2. Modify the setting / parameters if required
3. Click the “Save” button to save those new parameters





To change the driver setting / stored parameters, just click on the “Edit” button at the bottom



To apply the change

1. just click on the “Setup” button at the bottom to implement the changes
2. After it is finished, you will find the “green tick” shown on each parameters
3. On “Communication Status window, you will see the status of each items





To confirm the programming parameters is successful, you on click on the “Get Status” button at the bottom, you should see:

1. “Device Value” to report the stored parameters in the driver
2. In the “Communication Status” window on right hand side, you can also see the reported status of communication between the APP and driver
3. After programming the driver, you can go head to unplug the programming cable

