

DLAB Electronic Pipette Calibration Software operating Instructions

Scan the QR code below to download this software:



1. connected device

1.1 connected Electronic Pipette

Connection of Electronic pipettes and computers by USB



1.2 View Electronic Pipette Port Numbers

Right-click on "Computer" and open "Properties" and select "Device Manager".





Open "Port" to view the port number as shown in the figure, "Silicon Labs CP210 \times USB to UART

If "Silicon Labs CP210 \times USB to UART Bridge (COM3)" is selected in the software, the port number COM3 will be selected;

1.3 The port number is not recognised

If the device manager does not recognise the "Silicon Labs CP210×USB to UART Bridge" port, Maybe the driver is not installed, please install the driver as follows (for win10 win11)

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kdFlow&dTrite	PL2303 Windows Driver User Manual v1.12.0.pdf	2015-10-07 18:55	WPS PDF 文档	1,455 KB	
:)	PL2303_DriverInstallerv1.12.0_ReleaseNote.txt	2015-10-07 18:59	文本文档	11 KB	
di	UL2303_Prolific_DriverInstaller_v1.12.0.exe	2015-10-07 18:25	应用程序	3,631 KB	
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Or the driver as shown below (for win7)



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Check the "Device Manager" again after the driver has been successfully installed., select the "Silicon Labs CP210 \times USB to UART Bridge" Right click to update the driver.

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 □ CREATA/ATAPI 控制器 ○ 安全设备 ○ 安全设备 ○ 政理器 ○ 印 (COM 和 LPT) ○ 计算机 ○ 新印度 ○ 大学地入设备 ○ 方能设备 ○ 西本以政和訪欢技制器 ○ 國際设备 ○ 國際设备 ○ 國際设备 ○ 國際設备 ○ 國 國際設备 ○ 國際設备 ○ 國際 國際	 ● 夏新派动程序软件 - Silicon Labs CP210x USB to UART Bridge (COMB) Windows 已经充成功地更新驱动程序文件 Windows 已经完成实装此设备的驱动程序软件: Silicon Labs CP210x USB to UART Bridge
24 3811-49	

After updating the driver the port no longer has a yellow exclamation mark, then the



computer has been successfully connected to the device.



2.Calibration software use

2.1 Open the software, Select the device, range and serial port and click on Connect.



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IJ		dPette Type		
đ	1	dPette Volume Range	<u> </u>	
		0. 5-10 Device Port No	•	
	à	СОМЗ	→ Q	
e 1		Connect		
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2.2 After successful connection, enter the weighing interface and manually input the weighing value in the space on the left.

Click "Next", if the measurement result meets the accuracy and precision range, it will pop up:



DU	- □ × *								
	Step 1	Vol	ume 100	µl Poin	nt 5	₿ ^c TEMP: 25°C	Range	:0,5-10	
1	99.6	n	dPetteCalibrate	2		×			ľ
2	99.8	n	Test para	meters mee	t the req	uirements!			
3	99.5	n	Reference:	Precision(%)	3.00		.799 100.1	99. 799	
- 4	99.8	n		Accuracy(%)	5.00				
5	99.5	n		OK			3	4	6
A	verage	99.94	μι	Precision(%)	0.15	Accu	iracy(%) -	0.06	
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	version	/1.0.0.0	Copyriget ©	2024 DLAB Scien	tific Co.,Ltd	Englis	CurrentTim	e 2024-03-07	16:07:53

Click "OK" to go to the next point of measurement, if the measurement result is out of the range of accuracy and precision, it will pop up:

DU	B dPette	Cali	− □	×
	Setp 3		Volume 1000 ul Point 5 Range: 0.5-10 dPetteCalibrate X	
1	888)m	he CV over the range,cannot witeEE,do you still want to continue?	
3	889.6) m	Reference: Precision(%) 0.50 .277 1001.61 1002.01 Accuracy(%) 1.00	
4	998.6 999]m]m	OK Cancel 3 4 6	
A	verage 935.7	7	μl Precision(%) 6.44 Accuracy(%) -6.86	
			Back Reset Next	
	version:v1.0.0.0	14-	Copyriget © 2024 DLAB Scientific Co.,Ltd Englis CurrentTime 2024-03-07 16:09:	39

At this time, the measured value has been prompted to exceed the range of calibration values, later will not be able to calibrate the device to write the operation, if multiple tests are still out of range, please contact the manufacturer for maintenance.



2.3 If the average value, precision and accuracy of the measured value are within the range of the calibration value, click Next to enter the calibration coefficient writing interface.



2. 4 Click the Write operation to write the coefficients



When writing is complete, i.e. when calibration is successful, the software prompts accordingly.



DVVB dPetteCalibrate		- 🗆 X
100 μl Avg <mark>98.90</mark> μl	825.00	1001. 4
500 µl Avg <mark>499.90</mark> µl	550. (tip VriteEE	Sucessed
1000 µl Avg <mark>1001.40</mark> µl	0.000 1	<mark>ок</mark> 2 3 4 5
k = 1.2253	b =	1.7448
WriteData	Recheck	Home
version:v1.0.0.0 <u>Copyriget © 202</u>	4 DLAB Scientific Co.,Ltd	Englis CurrentTime 2024-03-07 16:15:45

If a retest is required, click on "Retest," or manually switch the motorised pipette off and restart it, then click on "Reconnect" to connect again.

"Reconnect" to connect again and click "Retest" when the connection is successful. After a successful write, the device needs to be restarted for the next calibration operation.



2.5 If you need to restore the factory settings, click the "Restore Factory Settings" button.



Contact the after-sales service to get the factory setting kb value of the device and input it, click OK, and then click "Write" button.

3 Frequently Asked Questions

3.1 As shown in the figure below, the device failed to connect, either because the cable is not connected properly or the port number is occupied



	– 🗆 ×
3	dPette Type dPette connect Failed.Please Check the port is not be occupyed! @@ COM9 Connect
	version:v1.0.0.0 Copyriget © 2024 DLAB Scientific Co.,Ltd Englist CurrentTime2024-03-07 16:27:17

3.2 As shown in the figure below, the prompt timeout, may be the device is in standby mode, you can press the device button to wake up the device.

PUAB dPetteCalibrate		- □ ×
	dPette Type dPette HandShake TimeOut,Please confirm the device is opened	
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PLAB dPetteCalibr	ate	- 🗆 X
	dPette Type dPette dPette handShake TimeOut,Please confirm the de ftip ReadEE TimeOut 魔定 Connect	wice is opened 确定

The device standby state (non-connectable state) is shown below:





When the operation button is pressed, the device is in a connectable state as shown in the figure





3.3 Win7 System Installation Unsuccessful

Win7 system with win7 custom installer, and different installer from win10/win11

3.4 Software removed by 360 and other antivirus software

Add PetteCali.exe from the installation directory to 360's trust list

