

4D SYSTEMS

TURNING TECHNOLOGY INTO ART

Workshop 4 Installation

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Description

This document describes how to install and configure Workshop 4, and how to install the driver for the 4D Programming Cable.

It is highly recommended to follow this document prior to the other ones.

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What You Need

For this application note, the following items are needed:

- A 4D Systems display module
- A 4D Systems programming cable

NOTE: Only required if planning to use Designer, ViSi or ViSi-Genie. Modules come shipped with Serial so a programming cable is only required if this is to be changed/updated, however a programming cable is highly recommended.

• A Windows PC

Please refer to the other Application Notes on the 4D Systems website for examples of how to configure your display module once you have completed this Application Note.

Please visit: <u>http://www.4dsystems.com.au/appnotes.php</u>

Download and Install Workshop 4

Workshop 4 is the integrated development environment that features four different environments for the 4D screens:

- Designer,
- ViSi,
- ViSi-Genie.
- Serial.

Please refer to the documentation on the Workshop 4 product page for more information about these environments and what they are for.

Go to <u>www.4dsystems.com.au</u> to get the latest version of Workshop 4.



Go to the Workshop 4 page at: http://www.4dsystems.com.au/prod.php?id=172 - O X 49 🔎 👻 🖄 🖉 4D Workshop4 IDE - Softwa... 🗙 About 4D Systems PTY LTD 4D SYSTEMS TURNING TECHNOLOGY INTO ART Home Company Products 4DGL Support forum Distributors News & Events Contact us App Notes 🟮 SHARE 🛛 📲 🗐 🧳 4D Workshop4 IDE Po Latest Workshop software from 4D Systems Description Features PmmC/Firmware Workshop 4 is a comprehensive software IDE that provides an integrated software development platform for all of the 4D family of processors and modules. The IDE Ð combines the Editor, Compiler, Linker and Downloader to develop complete 4DGL application code. All user application code is developed within the Workshop 4 IDE. ð Please see Software and Documentation downloads below Workshop 4 includes four development environments, for the user to choose based on plication requirements or even user skill level. • The Designer environment enables the user to write 4DGL code in its natural form to program the display module. • A visual programming experience, suitably called ViSi, enables drag-and-drop type No additional images on this product placement of objects to assist with 4DGL code generation and allows the user to visualise how the display will look while being developed. · An advanced environment called ViSi-Genie doesn't require any 4DGL coding at all, it is all done automatically for you. Simply lay the display out with the objects you want (similar to ViSi), set the events to drive them and the code is written for you automatically. ViSi-Genie provides the latest rapid development experience from 4D Systems. (Only available for Picaso) · A Serial environment is also provided to transform the display module into a slave serial display module, allowing the user to control the display from any host microcontroller or device with a serial port. Please download the Workshop 4 IDE Software: Workshop 4 IDE Software (Version 4.0.2.11B) Release Notes

The Workshop 4 software and all documentation releating to Workshop 4 can be downloaded from this page, be sure to scroll down to see all the documentation that is available.

Click on 'Workshop 4 IDE Software' link, and click Save:

Do you want to run or save WORKSHOP4-INSTALLER.4.0.2.	11B.EXE (36.0 MB) from 4dsystems.com.au?
This type of file could harm your computer.	Run Save v Cancel
The download starts:	

3	13% of WORKSHOP4-INSTALLER.4.0.2.11B.EXE downloaded	2 min 39	ec remaining	×
		Pause	Cancel	View downloads

Once downloaded, run/open the file.

Installation starts:



A welcome screen is displayed:	The window displays the licence agreement:
4D Workshop 4 IDE - InstallAware Wizard	🔹 4D Workshop 4 IDE - InstallAware Wizard
Welcome to the InstallAware Wizard for 4D Workshop 4 IDE	License Agreement Please carefully read the following license agreement.
The InstallAware Wizard will install 4D Workshop 4 IDE on your computer.	4D SYSTEMS PTY LTD TERMS AND CONDITIONS
WARNING: This program is protected by copyright law and international treaties.	Customer Acknowledgement. The Customer acknowledges agreement with these Terms and Conditions by order of downloading software product from 4D Systems Pty Ltd. 4D Systems Pty Ltd is the trading name of 4D Systems Pty Ltd. This contract is between the entity named 'the Customer' and 4D Systems Pty. Ltd. All software is supplied on these terms and conditions only and no person in the employment or otherwise as agent for 4D Systems has any authority to supply software on any other terms and conditions or to vary these
To continue, click Next. < Back	InstallAware
Click on Next .	Click on I accept the terms of the licence agreement and then on Next.

The installer asks for the destination folder, where Workshop is going to be placed:

Destination Folder	
Select folder where setup will install files	а С
Install 4D Workshop 4 IDE to:	
C:\Program Files (x86)\4D Labs\4D Wo	orkshop 4 IDE Change
Destination Folder Required Disk Space:	180,584 KB
Remaining Disk Space:	550,306 MB
stallAware	
stallAware	
	< Back Next > Cancel

Accept the proposed folder and click on Next.

The installer asks for the shortcut on the Windows Start menu:

🔹 4D Workshop 4 IDE - InstallAware Wizard	x
Select Program Folder Select the location where you would like to create new shortcuts.	
Setup will add program shortcuts to the Program Folder listed below. You may type a new folder name, or accept the suggested name. Click Next to continue.	
Program Folder:	
4D Workshop 4 IDE	
Install this application for: Anyone who uses this computer (all users) Only for me (current user) InstallAware	
A Back Next > Cancel	

Accept the proposed folder and click on **Next**.

A final screen summarises the options previously defined:

🐵 🎧 Workshop 4 IDE - InstallAware Wizard		
3	Completing the InstallAware Wizard for 4D Workshop 4 IDE	
	The InstallAware Wizard is now ready to configure 4D Workshop 4 IDE on this computer.	
	- Click Next to begin configuration	
	- Click Back to change settings	
- Click Cancel to exit		
< Back Next > Cancel		

Click on Next.

Installation starts:



Installation go	bes on:			
4D Worksho	p 4 IDE - InstallAware Wizard			
Installing 4D Workshop 4 IDE The program features you selected are being configured.				
1 1	Please wait while the InstallAware Wizard installs 4D Workshop 4 IDE. This may take several minutes.			
	Status: File: P1.INC, Directory: C:\Program Files (x86)\4D Labs\4D Workshop 4 IDE\Genie\PICASO Size: 2715			
InstallAware —	< Back Next > Cancel			

When installation is completed, an alias to Workshop 4 is placed on the desktop:



To run 4D Workshop, just double-click on the alias:



Workshop 3 and Workshop 4 can reside alongside on the Program Files directory:

								×
🚱 🕞 🗸 📕 🕨 Computer 🕨 Li	ocal Di	isk (C:) 🕨 Program	Files (x86) ► 4D Labs ►	•	\$ 9	Search 4D Labs		9
Organize 👻 Include in library	. •	Share with 🔻	Burn New folder				•	0
🚖 Favorites	Â							
📜 Libraries								
🌏 Homegroup		4D Workshop 3 IDE	4D Workshop 4 IDE					
💻 Computer								
🏭 Local Disk (C:)	E							
鷆 AuthLog								
鷆 inetpub								
퉬 Intel								
PerfLogs								
Program Files								
Program Files (x86)								
🎉 SiLabs								
SWSetup								
鷆 System Recovery Files								
퉬 Users								
Windows								
Pacovony (Du)	-							_
2 items								

Download and Install the Programming Cable Driver

Do not connect the programming cable until the driver is installed. Please install first the driver and then connect the programming cable.

Go to the 4D Systems website and download the latest version of the driver for the programming cable from the 4D Programming Cable page.



Go to the 4D Programming Cable page at:

http://www.4dsystems.com.au/prod.php?id=138



Click on **Drivers for Windows** to start downloading:

Do you want to run or save CP210x_VCP_Win_XP_S2K3_Vista_7.exe (6,	78 MB) from www.silabs.com?
-	Run Save Cancel
Click on Save .	

When the download has completed, run/open the downloaded file to launch the installation of the driver.

A welcome screen is displayed:



Click on Next.

The license agreement is displayed:	The installer asks for the destination folder, where the driver is going to be
Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vista/7 - Inst	placed:
License Agreement	Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vista/7 - Inst
Please read the following license agreement carefully.	Choose Destination Location Select folder where setup will install files.
END-USER LICENSE AGREEMENT IMPORTANT: READ CAREFULLY BEFORE AGREEING TO TERMS SILICON LABORATORIES INC., SILICON LABORATORIES INTERNATIONAL PTE. LTD., AND THEIR AFFILIATES (COLLECTIVELY, "SILICON LABS") HAVE DEVELOPED CERTAIN MATERIALS (E.G., DEVELOPMENT TOOLS, EXAMPLE CODE, EMBEDDABLE CODE, DLLs, SOFTWARE/COMPUTER PROGRAMS AND OTHER THIRD PARTY PROPRIETARY MATERIAL) ("LICENSED MATERIALS") THAT YOU MAY USE IN CONJUNCTION WITH SILICON LABS' MCU PRODUCTS. ANY USE OF THE LICENSED MATERIALS IS SUBJECT TO THIS END-USER LICENSE	Setup will install Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vista/7 v6.5.3 in the following folder. To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
ⓐ <u>accept the terms of the license agreement</u> <u>Print</u> ⓑ I go not accept the terms of the license agreement InstallShield (<u>Back</u>) <u>Next</u>	Destination Folder c:\\MCU\CP210x\Windows_XP_S2K3_Vista_7 InstallShield < Back

Click on I accept the the terms of the license agreement and then click on

Accept the default folder and click on Next.

Next.

A final screen summarises the options previously defined:	Installation goes on:
Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vista/7 - Inst	Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vista/7 - Inst
Ready to Install the Program The wizard is ready to begin installation.	Setup Status
Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.	The InstallShield Wizard is installing Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vista/7 v6.5.3
InstallShield	InstallShieldCancel
Click on Install.	

The installer is now ready.

Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vista/7 - InstallShield		
Silicon Laboratories CP210x VC	P Drivers for Windows XP/2003 Server/Vista/7 - InstallShield InstallShield Wizard Complete The InstallShield Wizard has successfully copied the Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vista/7 v6.5.3 to your hard drive. The driver installer listed below should be executed in order to install drivers or update an existing driver. ✓ Launch the CP210x VCP Driver Installer. Click Finish to complete the Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vista/7 v6.5.3 setup.	
	< Back Finish Cancel	

Click Finish to install the driver.

A new window asks for confirmation:

🚜 Silicon Laboratories CP210x USB to UART Bridge Driver Installer		
3	Silicon Laboratories Silicon Laboratories CP210x USB to UART Bridge	
	Driver Version 6.5.3	
	Install Cancel	

Click on **Install** to proceed.

The driver is being installed. Port are scanned:



A final screen informs the driver is installed and ready.



Now it's time plug the 4D programming cable in. the USB port.



Windows detects the cable and activates the adequate driver:

Driver Software Installation	×
Installing device driver software	
CP2102 USB to UART Bridge Controller OSearching Windows Update	
Obtaining device driver software from Windows Update might take a while. Skip obtaining driver software from Windows Update	
	Close

Windows displays a final message:

U Driver Software Installation	
Silicon Labs CP210x USB to UART Bridge (COM3) installed	
Silicon Labs CP210x USB to UART Bridge (COM3)	
	Close

A confirmation window shows the installed port, here COM3.

It is important to remember it as it is going to be used on Workshop 4 for uploading, here *COM3*:

COM 3 🔻	Status at 19:16:32 uLCD-32PT [v3.0]
	Comms

Congratulations! Workshop 4 is installed and your display module is ready to be used.

Please refer to the additional Application Notes on the 4D Systems website, relevant for the Environment you wish to program in.

http://www.4dsystems.com.au/appnotes.php

Documentation and Manuals relating to each of the environments is available on the Workshop 4 product page.

http://www.4dsystems.com.au/prod.php?id=172

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