

Title :
Document number :
Issue :
Classification :
Customer :
Date :

## First Light SDK installation manual for windows

3.0.0 Public

30/05/2023

# **Revision** history

Issue	Date	Para	Details	
1.0.0	28/11/2019		Initial release	
2.0.0	01/06/2021			
2.5.0	04/02/2022			
3.0.0	30/05/2023		Add link to MSVC redistributable	



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## 1. Introduction

First Light SDK and its installer have been tested on the following platforms:

- Windows 10 64bits
- Windows 11 64bits

The installer will provide the following components:

- SDK binaries and include
- C/C++/C# Demonstration software and the corresponding source files.
- Python Demonstration software and the corresponding source files.
- MATLAB Demonstration software and wrapper.
- MicroManager plugin
- Halcon plugin
- USB redistributable

The FliSdk has been tested with the following grabbers:

- Matrox Radient ev-CL
- Matrox Rapixo CXP
- Euresys Coaxlink Duo CXP-12
- Euresys Grablink Full CL
- Teledyne Dalsa Xcelera CL
- Bitflow CL
- EDT Visionlink F4
- USB 3.0

And with a specific driver version that can be downloaded from the website.



#### 2. Installation procedure

#### 2.1. Configuration of the installation

Start the executable "FliSdk\_X\_X\_X\_installer\_Windows.exe".

If some dialog boxes open and warn that the file msvcp140.dll or the file vcruntime140.dll are missing. Then you will first need to install the MSVC redistributable. Click on this link:

https://aka.ms/vs/17/release/vc\_redist.x64.exe

To get the redistributable, open it and follow the instructions (you will have to reboot your computer). Run again the executable (FliSdk\_X\_X\_installer\_Windows.exe) to get this window:

+ First Light Imaging Installer		_		×
Welcome		F	IRS GH	г+ Г
Welcome Install path Components selection	Welcome in the install assistant of FliSdk.	ADVA	NCED IMAGEF	or
License				
Ready for install				
Finished				
linbica				
		Next	t >) (	Quit



Click on Next, then choose the installation directory:

+ First Light Imaging Installer		_		×
Install path		AD	IRS IGH	
Welcome	Please select the path where you want to install the software.			
Install path	C:\Program Files\FirstLightImaging\FliSdk		Brows	e)
Components selection				
Ready for install				
, Installing				
Finished				
	< Previous	Ne	a >	Quit
	Fig. 2 : Installation directory selection			

Click on Next, then select the packages you want to install:



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+ First Light Imaging Installer						– 🗆 X
Components selection						
Welcome					Demo application.	
Install path	Default	Select all		Unselect all		
Components selection	✓ ✓ FliSdkDemo application					
License	✓ FliSdkDemo					
Ready for install	✓ Source code ✓ ✓ Frame Grabbers Plugins					
Installing	✓ Frame Grabber Bitflow CL					
Finished	✓ Frame Grabber EDT CL					
rinsneu	Frame Grabber Euresys CL					
	Frame Grabber Euresys CXP					
	Frame Grabber Matrox CL					
	Frame Grabber Matrox CXP  Frame Grabber Matrox Girel	isian.				
	Frame Grabber Matrox Gigev	ision				
	Frame Grabber Sapera CL					
	✓ Frame Grabber USB					
	🕆 🔳 Software Plugins					
	Plugin DICOM					
	Halcon Plugin					
	Plugin MicroManager					
	Redistributables					
	Euresys CXP					
	Matrox CL, CXP & Gige					
	Media Feature Pack					
	Microsoft Visual C++ 2015 Rui	ntime				
	Pleora     Samara Cl					
	FliSdk and Wrappers					
	✓ FliSdk					
	C# wrapper					
	Labview wrapper					
	Matlab wrapper				This component will	use approximately
	Python wrapper				27.31 Mo on your di	sk.
					< Previou	us Next > Quit
	Fig.	. 3 :	Component	selection		

**Note:** The redistributables will be downloaded from our server and must be installed manually.

Once the selection of components is done, click on *Next* and accept the license agreement.



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+ First Light Imaging Installer	- D ×	<
License	FIRST LIGHT	
Welcome		
Install path	First Light Imaging END-USER LICENSE AGREEMENT	
Components selection	THIS END-USER LICENSE AGREEMENT ("AGREEMENT") IS A LEGAL AGREEMENT	
License	BETWEEN YOU AND FIRST LIGHT IMAGING SAS ("FIRST LIGHT IMAGING") FOR THE FIRST LIGHT IMAGING SOFTWARE PRODUCTS ACCOMPANYING THIS	
Ready for install	AGREEMENT, WHICH INCLUDES COMPUTER SOFTWARE AND MAY INCLUDE	
Installing	"ONLINE" OR ELECTRONIC DOCUMENTATION, ASSOCIATED MEDIA, AND PRINTED	
Installing Finished	"ONLINE" OR ELECTRONIC DOCUMENTATION, ASSOCIATED MEDIA, AND PRINTED MATERIALS ("SOFTWARE"). BEFORE YOU CLICK ON THE "ACCEPT" BUTTON BELOW AND COMPLETE THE INSTALLATION PROCESS, CAREFULLY READ THIS AGREEMENT. BY CLICKING THE "ACCEPT" BUTTON, YOU CONSENT TO THE TERMS OF THIS AGREEMENT AND YOU AGREE TO BE BOUND BY THIS AGREEMENT. IF YOU DO NOT AGREE TO THE TERMS AND CONDITIONS OF THIS AGREEMENT, CLICK THE "CANCEL" BUTTON AND DO NOT DOWNLOAD ANY SOFTWARE FROM THIS SITE. <b>1. SOFTWARE OF THIRD-PARTY MANUFACTURERS.</b> Notwithstanding the terms and conditions of this AGREEMENT, all or any portion of the SOFTWARE which constitutes non-proprietary FIRST LIGHT IMAGING software or software provided under Open source license by third parties ("third-party software"), is licensed to you subject to the terms and conditions of the software license agreement accompanying such third-party software. Use of the third-party software by you shall be governed entirely by the terms and conditions of such license. You can find the license terms and conditions in the file "FII Third-Party Licenses.html" or contact FIRST LIGHT IMAGING support. FIRST LIGHT IMAGING software includes some open source software source code that may be used and modified by anyone and everyone, provided they, in turn, make it available to everyone else with the same licensing agreement. Please contact FIRST LIGHT IMAGING support for the original source code of components licensed under Open source licenses. <b>2. GRANT OF LICENSF.</b> FIRST LIGHT IMAGING grants you a personal. non-	
	Y I accept the incense.	
	Fig. 4 :     License agreement	-
	Fig. 4 : License agreement	

Click on Next,



+ First Light Imaging Installer	r	- 🗆 X
Ready for install		FIRST LIGHT
Welcome	The installation assistant is now ready to install FliSdk on your compute	r. Installation will use
Install path	152.86 Mo on your disk.	
Components selection		
Ready for install		
Installing		
Finished		
	< <b>P</b> I	revious Install Quit
	Fig. 5 : Launching install	

Click on *Install* to launch the installation.

The installation progress window appears.



+ First Light Imaging Installer				-	_		×
Installing					F	IRS GH	T T T
Welcome		35%					
Install path	Installing Halcon Plugin		·				
Components selection	Show details						
License Baada faa in stall							
Ready for install							
Finished							
Tinblicu							
						C	)uit

Fig. 6 : Installation progress



#### 2.2. USB driver installation

At the end of the SDK installation, the driver installation is launched automatically.



Fig. 7 : USB device driver installation setup

Click Next to perform driver installation.

One or several popup windows may appear to request user to confirm installation of the USB devices drivers.

E Windows Security	×			
Would you like to install this device software?				
Name: First Light Imaging Ports (COM & LPT) Publisher: FIRST LIGHT IMAGING SAS				
Always trust software from "FIRST LIGHT IMAGING Install Don't Insta SAS".	II			
You should only install driver software from publishers you trust. <u>How can I decide which device software is safe to install?</u>				
Fig. 8 : C-RED 2 serial port driver installation popup				





Checking Always trust software from "FIRST LIGHT IMAGING SAS" is optional. It checked, the First Light Imaging certificate will be added in the system and popup windows will no longer be displayed.

Click Install to perform driver installation.

At the end of the driver installation, a popup window is shown to indicate the status of the driver installation. Device Driver Installation Wizard

Completing the Device Driver Installation Wizard			
The drivers were successfully in	stalled on this computer.		
You can now connect your devi came with instructions, please re	ce to this computer. If your device ad them first.		
Driver Name	Status		
First Light Imaging (usbs	Ready to use		
✓ Cypress (CYUSB3) Imag	Ready to use		
< Back	Finish Cancel		

Fig. 10 : USB device driver installation completion

Click Finish to close the window.

A popup window indicating the end of the SDK installation appears.



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Fig. 11 : C-RED 2 SDK installation completion

Click *Finish* to close the window.



#### 2.3. End of installation

The installation is now complete., click on Next,

+ First Light Imaging Installer		-		×
Finished		F	IRS IGH	T T RY
Welcome Install path Components selection License	Installation finished, please install the necessary redistributables and computer.	restart	:	
Ready for install				
Installing				
				Quit
	Fig. 12 : End of install			

Click on Quit to end the installer.



## **3.** Verification of proper installation.

Once your computer is rebooted, verify the installation directory, and check that you have the following:

Nom		Modifié le	Туре	Taille
	CSharp	04/03/2022 10:50	Dossier de fichiers	
	Demo	04/03/2022 10:50	Dossier de fichiers	
	Demo_sources	04/03/2022 10:50	Dossier de fichiers	
	doc	04/03/2022 10:47	Dossier de fichiers	
	Examples	04/03/2022 10:48	Dossier de fichiers	
	GrabbersConfigs	04/03/2022 10:47	Dossier de fichiers	
	include	04/03/2022 10:47	Dossier de fichiers	
	Labview	04/03/2022 10:50	Dossier de fichiers	
	lib	04/03/2022 10:50	Dossier de fichiers	
	MaintenanceTool	04/03/2022 14:35	Dossier de fichiers	
	Matlab	04/03/2022 10:50	Dossier de fichiers	
	MicroManager	04/03/2022 10:50	Dossier de fichiers	
	packages	04/03/2022 14:35	Dossier de fichiers	
	Python	04/03/2022 10:50	Dossier de fichiers	
V	FliSdk_Third-Party_Licenses.html	04/03/2022 10:50	Brave HTML Docu	43 Ko

Fig. 13 : Install directory