

Installation Manual

Xeneth v2.6

ENG-2016-UMN006-R001

Company confidential.

This document is the property of Xenics. It may not be reproduced – completely or partially – or passed to a third party without written permission from Xenics.

Xenics nv Ambachtenlaan 44 BE-3001 Leuven • Belgium T +32 16 38 99 00 F +32 16 38 99 01 www.xenics.com Doc Ref: ENG-2016-UMN006 Issue: 001 Date: 27/05/2016 XF-104_03/20-12-2012

Page 1 of 24



Disclaimer

All products manufactured by Xenics nv are warranted as laid down in the sales conditions.

Xenics nv has no other obligation or liability for defects than those set forth therein.

No other warranty is expressed or implied. Xenics nv specifically disclaims the implied warranties of merchantability and fitness for a particular purpose.

This warranty will no longer be valid if the instructions contained herein are not followed.

Xenics nv shall not be liable for any direct, indirect, special, incidental or consequential loss of damage, whether based on contract, tort, product liability or any other legal theory.

Copyright/Intellectual Property Rights

© Xenics nv 2014.

All rights reserved worldwide.

This document must not, in whole or part, be copied, photocopied, reproduced, translated or transmitted to any electronic medium or machine readable form without written permission from Xenics nv.

Names and marks appearing on the products herein are either registered trademarks or trademarks of Xenics nv. All other trademarks, trade names or company names referenced in this document are used for identification only and are the property of their respective owners.

Quality Assurance

The Quality Management System under which these products are developed and manufactured has been certified in accordance with the ISO 9001 standard.

Xenics nv is committed to a policy of continuous development for which we reserve the right to make changes and improvements on any of the products described in this manual without prior notice.

Company confidential.

This document is the property of Xenics. It may not be reproduced – completely or partially – or passed to a third party without written permission from Xenics.

Xenics nv Ambachtenlaan 44 BE-3001 Leuven • Belgium T +32 16 38 99 00 F +32 16 38 99 01 www.xenics.com Doc Ref: ENG-2016-UMN006 Issue: 001 Date: 27/05/2016 XF-104_03/20-12-2012

Page 2 of 24



Revision History

Issue	Issue date	Changes	Modified by

Change Details

This table lists all changes of this issue compared to the previous released one.

Chapter/Section	Changes	Modified by

Company confidential.

This document is the property of Xenics. It may not be reproduced - completely or partially - or passed to a thin	ď
party without written permission from Xenics.	

Xenics nv Ambachtenlaan 44 BE-3001 Leuven • Belgium T +32 16 38 99 00 F +32 16 38 99 01 www.xenics.com



Table of Contents

Revision History
Change Details3
List of Abbreviations5
List of Figures6
1. Introduction
1.1. Manual Overview
1.2. Conventions Used in This Manual7
1.3. Safety Warnings
1.4. Contact Information9
2. Prerequisites
2.1. System Requirements10
2.2. Applications
3. Installation11
3.1. Installation Sequence11
3.2. Xeneth Installation11
3.3. Device Support
3.3.1. Camera drivers (USB)13
3.3.2. Camera Link™13
3.3.2.1. National Instruments (Camera Link [™])14
3.3.2.2. Euresys (Camera Link™)14
3.3.2.3. Imperx (Camera Link™)15
3.4. Plug-ins and Scripts
3.5. Xeneth Documentation
4. Uninstall
5. Getting Started
5.1. Connecting the Camera Using USB23
5.2. Connecting the Camera Using GigE23
5.3. Connecting the Camera Using Camera Link [™] 23

Company confidential.

This document is the property of Xenics. It may not be reproduced – completely or partially – or passed to a third party without written permission from Xenics.

Xenics nv Ambachtenlaan 44 BE-3001 Leuven • Belgium T +32 16 38 99 00 F +32 16 38 99 01 www.xenics.com



List of Abbreviations

ADC	Analog Digital Convertor
API	Application Programming Interface
BPR	Bad Pixel Correction
CL	Camera Link™
DDE	Dynamic Data Exchange
DHCP	Dynamic Host Configuration Protocol
GUI	Graphical User Interface
IP	Internet Protocol
LUT	Lookup Table
LWIR	Long-Waved InfraRed
MCT	Mercury Cadmium Tellurium
MWIR	Middle-Waved InfraRed
NIC	Network Interface Controller
NIR	Near InfraRed
NUC	Non-Uniformity Correction
OEM	Original Equipment Manufacturer
SW	Software
SWIR	Short-Waved InfraRed
TCP	Transmission Control Protocol
UI	User Interface
UTP	Unshielded Twisted Pair
VIS	Visible

Company confidential.

This document is the property of Xenics. It may not be reproduced – completely or partially – or passed to a third party without written permission from Xenics.

Xenics nv Ambachtenlaan 44 BE-3001 Leuven • Belgium T +32 16 38 99 00 F +32 16 38 99 01 www.xenics.com



List of Figures

11
12
12
13
16
17
17
18
18
19
21
21
22
24
24

Company confidential.

This document is the property of Xenics. It may not be reproduced – completely or partially – or passed to a third party without written permission from Xenics.

Xenics nv Ambachtenlaan 44 BE-3001 Leuven • Belgium T +32 16 38 99 00 F +32 16 38 99 01 www.xenics.com



1. Introduction

Before being able to start the camera, the Xeneth imaging suite and its graphical user interface must be installed, so that the data coming from a wide variety of Xenics detectors and cameras can be easily operated on and analyzed.

Target group: This technical manual is written for professional users.



Please read this manual thoroughly before installing Xeneth!

1.1. Manual Overview

This section provides a chapter overview:

- Chapter 1 (this chapter) gives an overview of the conventions used in this manual (styles and symbols), the safety warnings, conformity information about Xenics cameras and the contact information.
- Chapter 2 lists the minimum system requirements
- Chapter 3 describes the Xeneth installation
- Chapter 4 describes the steps to remove Xeneth from the PC
- Chapter 0 describes the camera connection.



More information about the use of Xeneth can be found in the Xeneth User Manual, which can be consulted as part of the software (in the Help tab) after the Xeneth installation (see also chap. 0).

1.2. Conventions Used in This Manual

To give this manual an easily understood layout and to emphasize important information, the following typographical styles and symbols are used:

The styles used in this manual are:

- **Bold**: used for programs, inputs (commands or parameters) or highlighting important things
- Courier New: used for code listings and output.
- *Italics*: used for modes and fields.

The symbols used in this manual:



Note: This symbol highlights important information.

Company confidential.

This document is the property of Xenics. It may not be reproduced – completely or partially – or passed to a third party without written permission from Xenics.

Xenics nv Ambachtenlaan 44 BE-3001 Leuven • Belgium T +32 16 38 99 00 F +32 16 38 99 01 www.xenics.com





Warning: This symbol highlights important instructions. These instructions must be followed to avoid malfunctions!

1.3. Safety Warnings

The following safety warnings must be followed:



Supply voltage polarity: Use the correct polarity of the 12 V supply voltage.



Warranty: The warranty becomes void in case of unauthorized tampering or any manipulations not approved by the manufacturer.



Electrostatic discharge: The camera contains sensitive electronic components which can be destroyed by means of electrostatic discharge. Use sufficient grounding to minimize the risk of damage.

Models with Camera Link[™] interface (Gobi...-...): First connect CL camera and grabber with Camera Link[™] data cable, and afterwards supply power to the CL camera.



Environmental conditions: Operate the camera in dry and dust free environment.

Regarding the signal quality of the camera it is an advantage to operate the camera under constant ambient air temperature (~20 °C).

Beneath or above ambient temperature a sufficient heating or cooling may be necessary.



Warm-up Period: Depending on the prevailing environmental conditions, some time might pass after the camera start, until the image quality reaches its optimum. A warm up period of 20 minutes is recommended.

Company confidential.

This document is the property of Xenics. It may not be reproduced – completely or partially – or passed to a third party without written permission from Xenics.

Xenics nv Ambachtenlaan 44 BE-3001 Leuven • Belgium T +32 16 38 99 00 F +32 16 38 99 01 www.xenics.com

Installation Manual

Xeneth v2.6



1.4. Contact Information

Xenics nv (Headquarters) Ambachtenlaan 44 BE-3001 Leuven Belgium T +32 16 38 99 00 <u>sales@xenics.com</u>

Xenics USA, Inc.

North and Latin American office 600 Cummings Center, Suite 166-Y Beverly, MA 01915-6194 United States of America T +1 978 969 1706 sales@xenics-usa.com

• sInfraRed Pte, Ltd

Asian sales, manufacturing and custom solutions office Blk 28 Sin Ming Lane #06-143, Midview City Singapore 573972 T +65 6 47 666 48 sales@sinfrared.com

• Xenics LLC

Russian representative and service center Dmitrovskoye Highway, 9A/5 127434 Moscow Russia T +7 985 763 4526 <u>sales@xenics.ru</u>

• Distributors worldwide

Xenics is a European based provider of infrared imaging products and has representatives and distributor locations around the world to service our many customers.

Please visit our website for more contact details:

www.xenics.com

Company confidential.

Xenics nv Ambachtenlaan 44 BE-3001 Leuven • Belgium T +32 16 38 99 00 F +32 16 38 99 01 www.xenics.com Doc Ref: ENG-2016-UMN006 Issue: 001 Date: 27/05/2016 XF-104_03/20-12-2012

Page 9 of 24

This document is the property of Xenics. It may not be reproduced – completely or partially – or passed to a third party without written permission from Xenics.



2. Prerequisites

2.1. System Requirements

In order to run Xeneth, the minimum system requirements are:

- Windows XP (32 bit, SP3 minimal), Vista (32/64 bit, SP2 minimal), Windows 7 or 8
- 2 GB RAM or more
- Gigabit Ethernet network interface (for GigE Vision cameras)
- **100 Mb** Ethernet network interface (for Gobi 384 and Bobcat 320 cameras without GigE Vision)
- USB 2.0 Hi-Speed ports (for cameras with an USB interface)
- A frame grabber compatible with Xeneth (for cameras with a Camera Link[™] interface)
 - National Instruments
 - Euresys GRABLINK[™] Series.
 - o ImperX FrameLink[™] Series
- CD/DVD ROM for installation
- Display resolution of 1024x768 or higher (1920x1080 preferred)
- High speed storage (striped raid) (A 640x512, 16 bit camera can produce in excess of 72 MB/s)
- CPU that supports the SSE2 instruction set.

2.2. Applications

Xeneth can be used in the following applications:

- SWIR/VISNIR/MWIR/LWIR imaging
- Thermography
- High speed imaging & recording
- Real-time analysis/monitoring of thermal/infrared processes.

Company confidential.

This document is the property of Xenics. It may not be reproduced – completely or partially – or passed to a third party without written permission from Xenics.

Xenics nv Ambachtenlaan 44 BE-3001 Leuven • Belgium T +32 16 38 99 00 F +32 16 38 99 01 www.xenics.com



3. Installation

3.1. Installation Sequence



It is a good practice to first uninstall a previous Xeneth version when installing a new one (see chap. 4 Uninstall).



When using Camera LinkTM cameras, it is also necessary to pre-install the frame grabber (see chap. 3.3.2) before installing Xeneth!

Follow the next installation sequence to avoid problems:

- 1. Uninstall a previous Xeneth version
- 2. First install the frame grabber drivers when using a frame grabber for Camera Link[™] cameras (see chap. 3.3.2)
- 3. Install Xeneth (see chap. 3.2) and mark the frame grabber checkbox (Figure 3-4)!
- 4. Install the Xeneth SDK.

3.2. Xeneth Installation

When installing the CD-ROM, Figure 3-1 shows the language selection dialog box to choose the user interface language.

A DECK	Please select a	language.	
0			
	English		

Figure 3-1 Language selection

The Language \rightarrow Welcome page provides information about the SW version being installed as shown in Figure 3-2.

Company confidential.

This document is the property of Xenics. It may not be reproduced – completely or partially – or passed to a third party without written permission from Xenics.

Xenics nv Ambachtenlaan 44 BE-3001 Leuven • Belgium T +32 16 38 99 00 F +32 16 38 99 01 www.xenics.com



Xeneth 2.6.1.227 Setup	
Infrared Solutions	Welcome to the Xeneth 2.6.1.227 Setup Wizard This wizard will guide you through the installation of Xeneth 2.6.1.227. It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer. Click Next to continue.
	Next > Cancel

Figure 3-2 Xeneth Setup wizard

When clicking 'Next' the Language \rightarrow Welcome \rightarrow License page is shown (see Figure 3-3).

10 C	License Agreement	
Please review the license terms before installing Xeneth 2.6.1.227.		
Press Page Down to se	e the rest of the agreement.	
This work (and include- items) is being provide obtaining, using and/o understood, and will co Permission to copy, mo without modification, fi prohibited.	d software, documentation such as READMEs, or other related d by the copyright holders under the following license. By r copying this work, you (the licensee) agree that you have read, amply with the following terms and conditions. wdify, and distribute this software and its documentation, with or or any purpose and without fee or royalty is hereby strictly	
THIS SOFTWARE AND	DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT	-
If you accept the terms agreement to install Xe	s of the agreement, click the check box below. You must accept the neth 2.6.1.227. Click Next to continue.	
	of the License Agreement	
✓ Laccept the terms of terms of the terms of terms		

Figure 3-3 License agreement page

The license page, contains useful information per release on the top half (under read me first), the copyright notice, and copyright notices about the software components used. Proceed by checking the 'I accept the terms in the License Agreement' checkbox. When clicking 'Next' the Language \rightarrow Welcome \rightarrow License \rightarrow Components page is shown (see Figure 3-4).

Company confidential.

Xenics nv Ambachtenlaan 44 BE-3001 Leuven • Belgium T +32 16 38 99 00 F +32 16 38 99 01 www.xenics.com

This document is the property of Xenics. It may not be reproduced – completely or partially – or passed to a third party without written permission from Xenics.



Xenics	Choose Components Choose which features of Xeneth 2	.6.1.227 you want to instal
Check the components yo nstall. Click Next to contin	u want to install and uncheck the comp ue.	onents you don't want to
Select components to inst	all:	Description Position your mouse over a component to see its description,
Space required: 33. 1MB	Plugins Filter plugins III	
11Cs		

Figure 3-4 Components selection page

As shown in Figure 3-4, the 'Device support' category may be necessary for acquisition over third party drivers or cards, such as e.g. frame grabbers.

3.3. Device Support

The device support sub category contains items that may be necessary to get access using third party drivers or cards.

The following two device support categories exist:

3.3.1. Camera drivers (USB)



When using a Xeva-line camera, do not forget to plug the camera into the USB port at this stage and mark the Camera drivers (USB) checkbox here.



When any new hardware detected dialogs from windows pops up, be sure to dismiss them before proceeding.

3.3.2. Camera Link[™]

The options from the following sub categories can be selected to install the desired frame grabber plug-in for frame grabbers that are natively supported by our software. The available plug-ins are used for grabbing the frames from the acquisition board and do provide an interface to the board-specific settings.

To enable serial communication over the Camera Link[™] serial lines to the camera, Xeneth makes use of the clallserial.dll specification from the Camera Link[™] standard API. This is a

Company confidential.

Xenics nv Ambachtenlaan 44 BE-3001 Leuven • Belgium T +32 16 38 99 00 F +32 16 38 99 01 www.xenics.com

This document is the property of Xenics. It may not be reproduced – completely or partially – or passed to a third party without written permission from Xenics.



wrapper to other brand specific DLLs that comply with the clser<u>xxx</u>.dll naming convention and API definition. A dedicated clser<u>xxx</u>.dll should be shipped with all Camera Link[™] compatible brands and should be located where the value of CLSERIALPATH points to. To obtain this value look in the HKLM registry under the key "SOFTWARE\Cameralink".

The binary clallserial.dll is always installed with Xeneth and enables the user to use command and control with *any* brand that complies with the standard clserxxx.dll API specification.



When a frame grabber is used for which Xeneth does not provide a plugin, always make sure the frame grabber specific clser<u>xxx</u>.dll resides at the correct path!



When Device Support for an integrated frame grabber is selected, the installer adds a copy of the corresponding clser<u>xxx</u>.dll to the root installation folder and updates the key CLSERIALPATH. Note that this could interfere with other software applications.

3.3.2.1. National Instruments (Camera Link™)

Select this option (see Figure 3-4) to install the National Instruments frame grabber plug-in for use in combination with our Camera Link[™] enabled cameras.

This option also installs the .ICD files that contain the camera and board specific configurations into the camera files path of NI. The path is obtained from NIIMAQPATH in the HKLM registry, location "SOFTWARE\National Instruments\NI-IMAQ for Windows 95/NT".

A copy of *clsernat.dll* is placed in the root installation folder of Xeneth and CLSERIALPATH is updated.



The National Instruments Image Acquisition installation procedure must be completed before installing the Xeneth software. The installation CD and installation manual is **provided by National Instruments** together with the frame grabber card.

3.3.2.2. Euresys (Camera Link™)

Select this option (see Figure 3-4) to install the Euresys frame grabber plug-in to use the GRABLINK[™] series acquisition boards in combination with our Camera Link[™] enabled cameras.

Xenics nv Ambachtenlaan 44 BE-3001 Leuven • Belgium T +32 16 38 99 00 F +32 16 38 99 01 www.xenics.com

Company confidential.

This document is the property of Xenics. It may not be reproduced – completely or partially – or passed to a third party without written permission from Xenics.



This option installs the .cam files that contain the camera specific configurations into the camera files path of Euresys. The path is obtained from CAMERAS in the HKLM registry, location "SOFTWARE\Euresys\MultiCam\Parameters".

A copy of *clseremc.dll* is placed in the root installation folder of Xeneth and CLSERIALPATH is updated.



The Euresys MultiCam studio installation procedure must be completed before installing the Xeneth software. The installation manual is **provided by Euresys** together with the frame grabber card. The software needs to be **downloaded** from www.euresys.com \rightarrow DOWNLOAD.

3.3.2.3. Imperx (Camera Link™)

Select this option (see Figure 3-4) to install the Imperx frame grabber plug-in to use the FrameLink series acquisition boards in combination with our Camera Link[™] enabled cameras.

This option installs the .cxf files that contain the camera specific configurations into the "GrabberFiles"-folder of Xeneth.

A copy of *clseripx.dll* is placed in the root installation folder of Xeneth and CLSERIALPATH is update.



The Imperx installation procedure must be completed before installing the Xeneth software. The installation manual and software is **provided by Imperx** together with the frame grabber card.



If the Imperx installer is not installed using the default installation directory the Xeneth GUI application is unable to find the required Imperx SDK DLLs. When Xeneth is installed with the Imperx option checked a configurable path property is appended in Application Settings \rightarrow Framegrabber options named "*Imperx SDK path*" to allow the user to configure a custom path. Make sure to set this path to the correct location taking into account the version of Xeneth (32 or 64 bit) installed.

Company confidential.

This document is the property of Xenics. It may not be reproduced – completely or partially – or passed to a third party without written permission from Xenics.

Xenics nv Ambachtenlaan 44 BE-3001 Leuven • Belgium T +32 16 38 99 00 F +32 16 38 99 01 www.xenics.com Doc Ref: ENG-2016-UMN006 Issue: 001 Date: 27/05/2016 XF-104_03/20-12-2012

Page 15 of 24



3.4. Plug-ins and Scripts

The Plug-ins & Scripts category contains additional filters/scripts that are used to perform a number of image processing tasks.

Select the required components, and click 'Next'.

The Language \rightarrow Welcome \rightarrow License \rightarrow Components \rightarrow Install location page is shown in Figure 3-5.

~~~	Choose Install Location
Xenics	Choose the folder in which to install Xeneth 2.6.1.227.
Setup will install Xeneth Browse and select anot	2.6.1.227 in the following folder. To install in a different folder, click her folder. Click Next to continue.
Destination Folder	
Destination Folder	186) Weneth Browse
Destination Folder	186) Weneth Browse
Destination Folder C: Program Files (x Space required: 33. 1ME Space available: 45.3GB	186) <mark> Xeneth  Br</mark> owse   B B
Destination Folder	86) Weneth Browse 8 8

Figure 3-5 Install location page

Choose the location in which Xeneth must be installed. It is highly recommended to choose only one installation location.

Choose the installation location, and when clicking 'Next', the Language  $\rightarrow$  Welcome  $\rightarrow$  License  $\rightarrow$  Components  $\rightarrow$  Install location  $\rightarrow$  Start menu page is shown (see Figure 3-6).

Company confidential.

This document is the property of Xenics. It may not be reproduced – completely or partially – or passed to a third party without written permission from Xenics.

Xenics nv Ambachtenlaan 44 BE-3001 Leuven • Belgium T +32 16 38 99 00 F +32 16 38 99 01 www.xenics.com Doc Ref: ENG-2016-UMN006 Issue: 001 Date: 27/05/2016 XF-104_03/20-12-2012

Page 16 of 24



Xenics	Choose Start Menu Folder Choose a Start Menu folder for	the Xeneth 2.6.1.227 shortcuts
Select the Start Menu fo can also enter a name t	older in which you would like to create o create a new folder.	the program's shortcuts. You
Xeneth		
7-Zip Accessories Active Silicon FireBird Active Silicon FireBird C Active Silicon FireBird C Administrative Tools Adobe Application Verifier	XP	
Application Verifier (x6 ASUS Atmel AVR Tools	4)	÷

Figure 3-6 Start menu page

This page determines the Xeneth location in the start menu.

Choose the start menu folder, and when clicking 'Next', the Language  $\rightarrow$  Welcome  $\rightarrow$  License  $\rightarrow$  Components  $\rightarrow$  Install location  $\rightarrow$  Start menu  $\rightarrow$  Install page is shown (see Figure 3-7).

Xenics	<b>Installing</b> Please wait while Xe	neth 2.6.1.227 is being insta	lled.
xecute: "C:\Program F	iles (x86)\Xeneth\Xeneth-	Api-Setup.exe" /S /D=C:\Pro	gram Files ()
Delete file: x25_wxwp	lt.dll		1
Delete file: x25_wxwp	org.dll		
Delete file: x25_wxws	ci.dll		
Delete file: Xeneth-Tra	ansform.pdf		
Delete file: Xeneth.ex	e		
Delete file: Xeneth.pd	f		
Delete file: Xeneth.tlb			
Delete file: Xeneth.url			
Extract: Xeneth-Api-S	etup.exe 100%		3
Execute: "C:\Program	Files (x86) (Xeneth (Xeneth	n-Api-Setup.exe" /S /D=C:\P	rogram
AV:1 - 28	388 864,11 A.S.	an that an	-25
Cs			

Figure 3-7 Installation page

During installation, when the USB drivers were selected to install, an additional dialog will pop up as shown in Figure 3-8.

Company confidential.

This document is the property of Xenics. It may not be reproduced – completely or partially – or passed to a third party without written permission from Xenics.

Xenics nv Ambachtenlaan 44 BE-3001 Leuven • Belgium T +32 16 38 99 00 F +32 16 38 99 01 www.xenics.com Doc Ref: ENG-2016-UMN006 Issue: 001 Date: 27/05/2016 XF-104_03/20-12-2012

Page 17 of 24

**Installation Manual** 

Xeneth v2.6



Xenics	Welcome to the Xeva camera installer! This wizard will walk you through updating the drivers for your camera.
	To continue, click Next,

Figure 3-8 USB driver installation page

When clicking 'Next', Figure 3-9 is shown.

nd User I	License Agreement
Ń	To continue, accept the following license agreement. To read the entire agreement, use the scroll bar or press the Page Down key.
	This work (and included software, documentation such as READMEs, or other related items) is being provided by the copyright holders under the following license. By obtaining, using and/or copying this work, you (the licensee) agree that you have read, understood, and will comply with the following terms and conditions. Permission to copy, modify, and distribute this software and its documentation, with or without modification, for any purpose and without fee or royalty is hereby strictly prohibited.
	I do not accept this EULA

Figure 3-9 End user license agreement page

Proceed by accepting the end user license agreement and click 'Next'.



At this point, make sure to have the USB camera plugged in, and dismiss any 'new hardware found' dialogs that Windows presents.

Company confidential.

This document is the property of Xenics. It may not be reproduced – completely or partially – or passed to a third party without written permission from Xenics.

Xenics nv Ambachtenlaan 44 BE-3001 Leuven • Belgium T +32 16 38 99 00 F +32 16 38 99 01 www.xenics.com Doc Ref: ENG-2016-UMN006 Issue: 001 Date: 27/05/2016 XF-104_03/20-12-2012

Page 18 of 24



The USB driver is installed at this point, as shown in Figure 3-10.

Xenics	Congratulations!	
annared Solutions	The drivers were successfully in	stalled on this computer.
	You can now connect your dev came with instructions, please n	ice to this computer. If your device ead them first.
	Bernard	2
	Driver Name	Status

Figure 3-10 Installation end page

Click 'Finish' to proceed with the rest of the installation.



Find the Xeneth shortcut ( ^{Xeneth} ) on the windows desktop that makes it able to start up Xeneth.

Company confidential.

This document is the property of Xenics. It may not be reproduced – completely or partially – or passed to a third party without written permission from Xenics.

Xenics nv Ambachtenlaan 44 BE-3001 Leuven • Belgium T +32 16 38 99 00 F +32 16 38 99 01 www.xenics.com Doc Ref: ENG-2016-UMN006 Issue: 001 Date: 27/05/2016 XF-104_03/20-12-2012

Page 19 of 24





### 3.5. Xeneth Documentation

After the Xeneth installation, the Xeneth User Manual can be found in the following Xeneth installer folder and in the Help tab within Xeneth:

- C:\Program Files\Xeneth

(64 bit Xeneth installed on a 64 bit operating system or 32 bit Xeneth installed on a 32 bit operating system).

C:\Program Files (x86)\Xeneth

(32 bit Xeneth installed on a 64 bit operating system).

Company confidential.

This document is the property of Xenics. It may not be reproduced – completely or partially – or passed to a third party without written permission from Xenics.

Xenics nv Ambachtenlaan 44 BE-3001 Leuven • Belgium T +32 16 38 99 00 F +32 16 38 99 01 www.xenics.com Doc Ref: ENG-2016-UMN006 Issue: 001 Date: 27/05/2016 XF-104_03/20-12-2012

Page 20 of 24



## 4. Uninstall

When selecting the Xeneth uninstall option, Figure 4-1 is shown.

Aeneu	1 2.6.1.227 Uninstall		
?	Are you sure you want to its components?	completely remove Xeneth 2.6.1.2	227 and all of
		Yes	No

Figure 4-1 Xeneth uninstall

Click 'Yes' to remove the Xeneth software. Afterwards the uninstaller will prompt whether or not the data stored in the "C:\Program Files\Xeneth\Calibrations" directory must be kept and whether the calibration data packs must be kept (see Figure 4-2).



Figure 4-2 Xeneth uninstall - calibration data

Click 'Yes' to keep the data.

Company confidential.

This document is the property of Xenics. It may not be reproduced – completely or partially – or passed to a third party without written permission from Xenics.

Xenics nv Ambachtenlaan 44 BE-3001 Leuven • Belgium T +32 16 38 99 00 F +32 16 38 99 01 www.xenics.com Doc Ref: ENG-2016-UMN006 Issue: 001 Date: 27/05/2016 XF-104_03/20-12-2012

Page 21 of 24



The following figure is shown afterwards:

Xenics	Uninstallation Complete Uninstall was completed successfully,
Completed	
Delete file: C:\Program	n Files (x86) \Xeneth\FilterConfigurations \Vertical Edges.matrix
Delete file: C: Program	nData Wicrosoft/Windows/Start Menu/Programs/Xeneth/Uninst
Delete file: C:\Program	nData Microsoft \Windows \Start Menu \Programs \Xeneth \Websit
Delete file: C: Program	nData Wicrosoft \Windows \Start Menu \Programs \Xeneth \Xenet
Remove folder: C:\Pro	gramData Microsoft \Windows \Start Menu \Programs \Xeneth \
Remove folder: C: \Pro	gram Files (x86)\Xeneth\Data\
Remove tolder: C:\Pro	gram Hies (X86) (Xeneth (Calibrations)
Completed	E
ICs	

Figure 4-3 Xeneth uninstall - finish

When clicking the 'Close' button, the uninstaller will proceed to remove the Xeneth software and SDK runtimes.

Company confidential.

This document is the property of Xenics. It may not be reproduced – completely or partially – or passed to a third party without written permission from Xenics.

Xenics nv Ambachtenlaan 44 BE-3001 Leuven • Belgium T +32 16 38 99 00 F +32 16 38 99 01 www.xenics.com Doc Ref: ENG-2016-UMN006 Issue: 001 Date: 27/05/2016 XF-104_03/20-12-2012

Page 22 of 24

# 5. Getting Started

## 5.1. Connecting the Camera Using USB

Connect the camera to its power supply, and proceed to connect the camera's USB port to the PC using the Xenics cable.

When any new hardware detected dialogs from windows pops up, refer to chap. 3 Installation. It is possible that the USB driver was not installed, or the proper procedure was not followed.

## 5.2. Connecting the Camera Using GigE

Connect the camera to its power supply, and proceed by connecting the camera's Ethernet connection to the local network (Cat 5e or better).



Alternatively, it is possible to connect the camera directly to the PC, but keep in mind that if the PC has a 100Mbit NIC, a crossed UTP cable must be used instead of a regular UTP cable.



Please keep in mind that an Ethernet network is being built. If the camera in question does not have Zero Configuration support a DHCP server must be available so that the camera can be assigned an IP address.

## 5.3. Connecting the Camera Using Camera Link™

If a compatible Camera Link[™] card is available and the camera has a Camera Link[™] port available, connect the Camera Link[™] cables at this point.



Keep in mind that for cameras with multiple Camera Link[™] outputs, great care has to be taken as to which cable to be plugged into which slot. Always pay attention to the Base/Medium designations on both the camera housing and the grabber.



Not all USB cameras allow commands to be sent over Camera Link[™], so they must be used in combination with the USB cable described above.

After making sure that all cables are connected, proceed by clicking the Xeneth shortcut on your desktop.

Company confidential.

This document is the property of Xenics. It may not be reproduced – completely or partially – or passed to a third party without written permission from Xenics.

Xenics nv Ambachtenlaan 44 BE-3001 Leuven • Belgium T +32 16 38 99 00 F +32 16 38 99 01 www.xenics.com



The software will proceed by scanning the network (as shown in Figure 5-1), the USB bus and any Camera Link[™] or PC serial ports * available for cameras. (* If support for Camera Link[™] cameras is installed)



Figure 5-1 Scanning screen

After this scanning screen has disappeared the following connection dialog will appear:

Enumerate devices	
	Enumeration settings Application settings
Ĩ Ž Š	
[00006710] Ser	rval-640-GigE
[00000005] On	ica Pelican-D
[00006261] Lyr [00004254] Lyr [00004225] Lyr [00004225] Lyr [00004225] Lyr [00004225] Lyr [00004225] Lyr	nx Transport: GigEVision nx Product id: F091 nx Serial: 5 Location: 192.168.1.173 State: Busy
Device information	Framegrabber Force IP
Name:	Lynx GigEVision Enas
Transport: Product id: Serial: Location: State:	4225 192.168.1.191 Available

Figure 5-2 Camera selection

Select the camera to use, together with the calibration data suited for it.



When the camera is not shown here immediately, check the serial number (Ser#) on the back and click the green refresh button until it does.

Company confidential.

This document is the property of Xenics. It may not be reproduced – completely or partially – or passed to a third party without written permission from Xenics.

Xenics nv Ambachtenlaan 44 BE-3001 Leuven • Belgium T +32 16 38 99 00 F +32 16 38 99 01 www.xenics.com