

Upgrade Instructions **xPONENT[®] 4.2 for FLEXMAP 3D[®]**



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xPONENT[®] 4.2 for FLEXMAP 3D[®] Upgrade Instructions 89-00002-00-294 Rev A September 2016

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Chapter 1: xPONENT_® 4.2 Upgrade

Installation Notes for the xPONENT® 4.2

NOTE: Before continuing with the instructions below, ensure that you have downloaded all of the software upgrade files from the Luminex[®] website and save them to your desktop. Files can be downloaded directly to the PC or downloaded to a USB and transfered to your desktop.

Please see the installation instructions below. Ensure all external storage devices are disconnected.

The screen resolution, colors, font size, and theme may affect the xPONENT[®] display. If the graphics or text do not display properly, please adjust your display settings to the recommended system requirements.

If upgrading from a previous xPONENT installation, ensure the license file is backed up from the previous version.

Always perform a probe height adjustment after installation, on every plate type listed in xPONENT.

- **WARNING:** Modifying or deleting any files installed by xPONENT or the computer operating system may cause corruption or failure of the xPONENT software. Modified or deleted xPONENT system files may be repaired by uninstalling and reinstalling the software.
- **WARNING:** Use of unauthorized third party software with xPONENT software may result in corruption or failure of the xPONENT software and is done at the user's own risk.
- **WARNING:** You must be signed in as an administrator to perform these upgrades. If you are using a Luminex provided PC, ensure that you login with the **FLEXMAP 3D Administrator** user account to perform the upgrade.

WARNING: Close all applications before starting the uninstall procedure.

Recommended Minimum System Requirements

- Windows[®] 7 Professional SP1 (64-bit, US English)
- 2.8 GHz Intel[®] Core 2 (or higher)
- 8 GB RAM
- 160 GB Hard drive space (or higher)

Display Settings

- SXGA 1280x1024 with 32 bit color
- 96 DPI Font
- Default Windows 7 Theme

SQL Server Express

This setup installs SQL Server[®] Express 2008 R2. Any previous version of SQL Server will not be upgraded to this release. Any currently installed services that utilize SQL Server may become inoperable.

NOTE: Complete the following workflows in the order shown below. Do not skip sections or perform them out of order.

- Uninstalling the Previous Version of LXMaint
- Uninstalling the Previous Version of xPONENT
- Installing xPONENT[®] 4.2
- Installing LXMaint
- Installing the Firmware Update

Uninstalling the Previous Version of LXMaint

NOTE: Uninstalling the previous version of LXMaint must be completed first before all other installations below.

1. Click **Control Panel** and ensure the **View by** option is set to **Category**. Then navigate to **Programs > Uninstall a Program**.



2. Right-click Luminex LXMaint 3.2 and choose Uninstall.

ile Edit View Tools He	1p					
Control Panel Home	Uninstall or change a program					
View installed updates	To unreshill a surgery related a from the first and they slick through it. Change as Reason					
Turn Windows features on or	to unitalitie program, which is not the first that	cuck orminant, crunide, or repair.				
off	Organize +					
	Name	Publisher	Installed On	Size	Version	
	Adobe Flash Player 20 ActiveX	Adobe Systems Incorporated	5/26/2016	17.6 MB	20.0.0.306	
	Adobe Reader XI MUI	Adobe Systems Incorporated	5/26/2016	567 MB	11.0.00	
	Create Recovery Media	Dell	5/26/2016	40.0 MB	1.0.0.1	
	Dell Command Update	Dell Inc.	5/26/2016	62.8 MB	21.1	
	Dell Digital Delivery	Dell Products, LP	5/26/2016		3.1.1002.0	
	Dell Foundation Services	Dell Inc.	6/24/2016		3.3.7200.0	
	Dell Protected Workspace	Invincea, Inc.	5/26/2016	71.1 MB	4.0.18189	
	C Dell Update	Dell Inc.	5/26/2016		1.8.1114.0	
	Management Engine Components	Intel Corporation	5/26/2016		10.0.31.1000	
	Intel(R) Network Connections 20.2.3001.0	Intel	5/26/2016	30.2 MB	20.2.3001.0	
	11 Intel® Graphics Driver	Intel Corporation	5/26/2016	74.2 MB	10.18.14.4170	
	Rapid Storage Technology	Intel Corporation	5/26/2016		13.1.0.1058	
	M Intel® USB 3.0 eXtensible Host Controller Driver	Intel Corporation	5/26/2016	18.4 MB	2.5.4.40	
	Uuminex LXMaint 3.2	Luminex	6/17/2016	159 MB	3.2.108.0	
	120 Microsoft JNET Framework 4.5	Microsoft Corporation	5/26/2016	38.8 MB	4.5.50709	
	Microsoft Agents for Visual Studio 2012	Microsoft Corporation	6/27/2016	212 MB	11.0.61030.0	
	Microsoft SQL Server 2008 R2	Microsoft Corporation	6/17/2016			
	Microsoft SQL Server 2008 R2 Native Client	Microsoft Corporation	6/17/2016	6.06 MB	10.50.1600.1	
	Microsoft SQL Server 2008 R2 Setup (English)	Microsoft Corporation	6/17/2016	32.4 MB	10.50.1600.1	
	Microsoft SQL Server 2008 Setup Support Files	Microsoft Corporation	6/17/2016	21.6 MB	10.1.2731.0	
	Microsoft SQL Server Browser	Microsoft Corporation	6/17/2016	8.99 MB	10.50.1600,1	
	Microsoft SQL Server VSS Writer	Microsoft Corporation	6/17/2016	3.60 MB	10.50.1600.1	
	Microsoft Visual C++ 2005 Redistributable	Microsoft Corporation	6/17/2016	428 KB	8.0.56336	
	Microsoft Visual C++ 2008 Redistributable - x86 9.0.3	Microsoft Corporation	6/17/2016	596 KB	9.0.30729	
	Microsoft Visual C++ 2010 x85 Redistributable - 10.0	Microsoft Corporation	6/17/2016	1.29 MB	10.0.30319	
	Microsoft Visual C++ 2012 Redistributable (x86) - 11.0	Microsoft Corporation	6/17/2016	17.3 MB	11.0.50727.1	
	KRealtek High Definition Audio Driver	Realtek Semiconductor Corp.	5/26/2016		6.0.1.6068	
	8 VirtualCloneDrive	Elaborate Bytes	6/27/2016			
	Windows Driver Package - Luminex Corporation (Lu	Luminex Corporation	6/17/2016		12/12/2012 6.1.760	
	X sPONENT 4.2 for FlexMap	Luminex Corporation	6/29/2016	916 MB	4,2,1600	

3. Click Yes.



- 4. Click **Yes** in all subsequent confirmation dialog boxes displayed to complete the uninstall process.
- 5. Close the **Control Panel** and restart the PC.
- 6. Once the PC is restarted, click **Control Panel** and ensure the **View by** option is set to **Category**. Then, navigate to **Programs > Uninstall a Program** and confirm that the **Luminex LXMaint 3.2** was uninstalled.
- 7. Close the Control Panel.

Uninstalling the Previous Version of xPONENT® 4.2

Before starting this procedure:

- 1. Verify that the login used for this procedure has full administrative privileges.
- 2. Close xPONENT[®] if opened.
- 3. Perform a backup of the xPONENT database.
 - a. Navigate to the Start menu > All Programs and choose the Luminex folder.
 - i. Choose the subfolder labeled Common.
 - ii. Choose **xPONENT Archive**.
 - b. Select System Backup (protocols, batches, kits, lots, etc.).
 - c. Type in Admin login credentials and click **OK**.
 - d. The system defaults to the Public Documents backup folder. Click OK.
 - e. Verify that the data files have been backed up successfully.
 - i. Find the **Backup** short cut folder on your desktop.
 - ii. Check for the zipped folder with today's date of backup.
- 4. Close all software applications on the PC.

Uninstalling with the Control Panel

- **NOTE:** The steps in this procedure must be performed in the exact order as listed.
- **NOTE:** If an error is displayed at any time throughout this procedure, take a screenshot of the error and contact Luminex Technical Support.

Follow these steps to uninstall xPONENT[®] using your PC's Control Panel.

- 1. Close the xPONENT software.
- 2. Click the Start menu (found in the lower left corner of the screen) and select Control Panel.
- 3. Click on Uninstall a program under Programs.
- 4. Select **xPONENT 4.2 for FlexMap** from the list.
- 5. Click Uninstall from the Menu Bar.
- 6. Click **Yes** in all subsequent confirmation dialog boxes displayed to complete the uninstall process.
- 7. Confirm that the uninstall was successful.
- 8. Close the **Control Panel**.

WARNING: Before continuing with the following workflows, move the xPONENT 4.2-FM3D-Update files to your desktop and unzip the folder.

Installing xPONENT® 4.2

- 1. From the downloaded files on your desktop, open the **xPONENT4.2-FM3D-Update > xPONENT 4.2.1513_1920** folder.
- 2. Double-click the **setup** file.

					x
C v v v v v v v v v v v v v v v v v v v	4.2.1513_1920	- ⁴ γ	Search DISK1		Q
Organize 🔻 📑 Open	Share with 🔻 Burn New folder		8	= - 🗍	0
★ Favorites	Name	Date modified	Туре	Size	
E Desktop	ISSetupPrerequisites	9/22/2016 8:22 AM	File folder		
🚺 Downloads	Readme_files	9/22/2016 8:22 AM	File folder		
🔛 Recent Places	setup_files	9/22/2016 8:22 AM	File folder		
	🗿 autorun	9/1/2016 4:15 PM	Setup Information	1 KB	
🥽 Libraries	🗄 Data1	9/2/2016 8:26 AM	Cabinet File	568,326 KB	
Documents	🖉 Readme	9/1/2016 4:15 PM	HTML Document	107 KB	
🎝 Music	🔄 setup	9/2/2016 8:26 AM	Application	4,043 KB	
Pictures	😂 setup	9/1/2016 4:15 PM	HTML Document	10 KB	
🛃 Videos	WMPInfo	9/1/2016 4:15 PM	XML Document	1 KB	
	🚰 xPONENT 4.2 for FlexMap	9/2/2016 8:26 AM	Windows Installer	23,314 KB	
🖳 Computer					
🏭 OS (C:)					
KINGSTON (E:)					
👝 Removable Disk (F:)					
🙀 Network					
setup Dat Application	te modified: 9/2/2016 8:26 AM Date crea Size: 3.94 MB	ited: 9/22/2016 8:21 AM			

- 3. Click Yes to subsequent confirmation dialog boxes displayed to complete the install process.
- 4. Click Next.



5. Read through the License Agreement and once done, select the I accept the terms in the license agreement radio button. Click Next.



6. Click Next.

😼 xPONENT 4.2 fo	or FlexMap - InstallShield Wizard	X
Database Server Select database se	erver and authentication method	
The setup will instal authentication cred server authenticatio Database Server:	I the xPONENT database to the database server below usin entials. If you experience install problems with your creden on option using the default login ID and password below.	g your Windows tials, select the
,\XPONENTSQL	▼	Browse
Connect using:		
⊙ <u>₩</u> indows auth	entication credentials of current user	
◯ S <u>e</u> rver auther	itication using the Login ID and password below	
Login ID:	sa	_
<u>P</u> assword:		_
InstallShield	-	
	< <u>B</u> ack <u>N</u> ext >	Cancel

7. Select the **Complete** radio button and click **Next**.

😸 xPONENT 4.2	2 for FlexMap - InstallShield Wizard	\times
Setup Type Choose the set	up type that best suits your needs.	
Please select a	setup type.	_
Complete	All program features will be installed. (Requires the most disk space.)	
○ Cu <u>s</u> tom	Choose which program features you want installed and where they will be installed. Recommended for advanced users.	
InstallShield	< <u>B</u> ack <u>N</u> ext > Cancel	

8. Click Install.



9. Once completed, click **Finish**.



- 10. Close the Control Panel.
- 11. Restart the PC.
- 12. Confirm that the installation was successful. Click **Control Panel** and ensure the **View by** option is set to **Category**. Then navigate to **Programs > Uninstall a Program** and confirm that **xPONENT4.2.1920** is now listed.

NOTE: Please note that the number 1920 refers to the upgrade. The software version is **xPONENT4.2.1513.1920**.

13. Close the Control Panel.

Installing LXMaint

1. From the downloaded folders on your desktop, open the **LxMaint 3.2.204** file. Right-click on **LXMaint 3.2 setup** and choose **Run as administrator**.

Name			
🕙 LXMaint 3.2	setur		
		Open	
	۲	Run as administrator	
		Troubleshoot compatibility	
		7-Zip	•
	K	Scan for viruses	
	K	Move to Quarantine	
		Restore previous versions	
		Send to	+
		Cut	
		Сору	
		Create shortcut	
		Delete	
		Rename	
		Properties	

- 2. Click **Yes** in all subsequent confirmation dialog boxes displayed to complete the install process.
- 3. If applicable, click **Install**.

Luminex L	XMaint 3.2 - InstallShield Wizard
ئ	Luminex LXMaint 3.2 requires the following items to be installed on your computer. Click Install to begin installing these requirements.
Status	Requirement
Pending	g Microsoft Visual C++ 2012 Redistributable Package (x86)
	install Cancel

4. Click Next.



5. Click the drop-down arrow next to LXMaint 3.2 and choose This feature, and all subfeatures, will be installed on local hard drive. from the list.

방 Luminex LXMaint 3.2 - InstallShield Wizard	2
Custom Setup Select the program features you want installed.	>
Click on an icon in the list below to change how a feature is installed. Feature Description This feature will be installed on local hard drive. This feature, and all subfeatures, will be installed on local hard drive.	
 This feature will be installed when required. X This feature will not be available. 	
Install to: C:\Program Files\Luminex\LXR\LXMaint 3.2\ InstallShield	
Help Space < Back Next > Cancel	

6. Click Next.

j블 Luminex LXMaint 3.2 - InstallShield Wizard	X			
Custom Setup Select the program features you want installed.	と			
Click on an icon in the list below to change how a feature is in	stalled.			
LXMaint 3.2 LXR 3.2 BeadControls	Feature Description This feature requires 35MB on your hard drive.			
Install to:				
C:\Program Files\Luminex\LXR\LXMaint 3.2\ InstallShield	Change			
Help Space < Back	Next > Cancel			

7. Ensure that the **Create Desktop Shortcut** check box is NOT selected and click **Install**.

j붲 Luminex LXMaint 3.2 - InstallShield Wizard	x
Ready to Install the Program The wizard is ready to begin installation.	5
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.	
Create Desktop Shortcut	
InstallShield < Back State Cancel	

8. The software begins installing.

🛃 Luminex l	LXMaint 3.2 - InstallShield Wizard
Installing The prog	Luminex LXMaint 3.2 ram features you selected are being installed.
17	Please wait while the InstallShield Wizard installs Luminex LXMaint 3.2. This may take several minutes.
	Status:
	Stopping services
InstallShield —	
	< <u>B</u> ack <u>N</u> ext > Cancel

9. On the InstallShield Wizard Completed dialog box, click Finish.

늻 Luminex LXMaint 3.2 - Instal	IShield Wizard
	InstallShield Wizard Completed
	The InstallShield Wizard has successfully installed Luminex LXMaint 3.2. Click Finish to exit the wizard.
	Launch Luminex LXMaint 3.2
	Show the Windows Installer log
	< Back Finish Cancel

- 10. Close the Control Panel.
- 11. Restart the PC and the instrument.

Installing the Firmware Update

Ensure the PC is connected to a Luminex[®] FLEXMAP 3D[®] instrument and turn on the instrument. Allow the instrument to initialize. From the Start menu, navigate to Computer > C: Drive > Program Files(x86) > Luminex > LXR to open the LxFirmwareWizard application. The Attention dialog box opens.

Attention	×
Please close all applications that com	municate with Luminex devices.
	ОК

2. Close the required applications and click **OK** in the **Attention** dialog box. The **LxFirmware Wizard** opens showing the following information.

			1	2
	3	LxFirmware Wizard		x
		Detector Firmware	Device: FlexMAP 3D	Current Firmware Version: 3.0.276
3—		Movement Firmware	Select Firmware version from Listbox. Then Press Next.	
		Download Firmware	 No Upgrade Image: Constraint of the second second	Import File
		Finish		
4 —			-	
•				
				Back Next
I				
	1.	Connected dev	ice	
	2.	Current firmwar	re version	
	3.	Firmware option	ns for the connected PC	
	4.	Current stage of Detector Firmw	of firmware process. At this rare.	step, it is

- 3. From the downloaded files on your desktop, navigate to **xPONENT4.2-FM3D-Update > 3.1.1 FM3D Firmware > FlexMAP3D_3_1_1.pak**. Save the .pak files to your desktop.
 - a. Click $\ensuremath{\text{Import File}}$ from the $\ensuremath{\text{LxFirmware Wizard}}.$
 - b. Browse to the FlexMAP3D_3_1_1.pak on the desktop.
 - c. Select the number 4 (image above, current state of firmware process) radio button.
 - d. Click Next.

4. The current stage of the firmware process changes to **Download Firmware** and the **LxFirmware Wizard** displays the firmware selected for download. Click **Flash Firmware**.

LxFirmware Wizard		
Detector Firmware	Please confirm that the correct device is attached before pressing the Flash Firmware button. Detector Device Device: FlexMAP 3D	
Download Firmware	Firmware Version: FlexMAP 3D - 3.1.1 Download Pending.	
Finish	Movement Device Device: XYP Firmware Version:	
	Flash Firmware	
	Back Next	

5. The **Firmware Download Confirmation** dialog box opens, displaying the warning described at the beginning of this procedure. Click **OK**.

Firmware D	Jownload Confirmation
A	During firmware download, please do not disconnect the Luminex device. Also, do not turn the PC or Luminex device off. Doing so may render the Luminex device inoperable, and may require a Field Service technician to recover device functionality. Press OK to continue firmware download.
	OK Cancel

6. Text in the LxFirmware Wizard dialog box changes to Downloading Firmware. The progress bar indicates the progress of the procedure. When the download is complete, the text in the dialog box changes to Waiting for Device to Reset.

NOTE: The sample valve may cycle during the download process, this is normal.

stand		
Detector Firmware Movement Firmware	Please confirm that the correct device is attached before pressing the Flash Firmware button. Detector Device Device: FlexMAP 3D Firmware Version: FlexMAP 3D - 3.1.1	
Download Firmware	Downloading Firmware	
Finish	Movement Device Device: XYP Firmware Version: Rash Firmware Back Next	

- 7. If at any time the firmware download crashes, complete the following:
 - a. Do not exit the software.
 - b. Turn off the instrument (this has to be done first to increase probability of recovery).

- c. Exit the software and restart the PC.
- d. Power up the instrument.
- e. Open the **LxFirmware Wizard** and check the firmware version. When the instrument connects, restart this procedure if the firmware is not the correct version.

Detector Firmware Movement Firmware	Please confirm that the correct device is attached before pressing the Rash Rimware button. Detector Device Device: RexMAP 3D Rimware Version: RexMAP 3D - 3.1.1	
Download Firmware	Downloading Firmware	
Finish	Movement Device Device: XYP Firmware Version:	
	Rash Rimware	
	Back Next	

8. After the process is complete, the current stage of the firmware changes to **Finish**. Click **Finish** to close the **LxFirmware Wizard**.

LxFirmware Wizard	
Detector Firmware	Please confirm that the correct device is attached before pressing the Flash Firmware button.
Movement Firmware	Device: FlexMAP 3D Firmware Version: FlexMAP 3D - 3.1.1
Download Firmware	Download Complete. The operation completed successfully. (0x00000000)
Finish	Movement Device Device: XYP Firmware Version: Rash Firmware

- 9. Close the **Control Panel**.
- 10. Restart the PC and the instrument.
- 11. Open **xPONENT** and login. Then navigate to **Maintenance > System Info** and from the list, confirm the version of firmware says 3.1.1.

NOTE: Disregard date and time, they will not match the installation date.

If you have any issues during the upgrade, please contact Luminex Technical Support.

Congratulations, you have successfully installed the xPONENT upgrade. Please feel free to restart your system and perform a daily maintenance routine. If you want to restore the data that you previously archived, refer to the appropriate xPONENT Software User Manual.