

Living Image® Version 4.5 Software

Installation and Licensing Guide

CE

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1 Before You Begin

Requirements

Contact Information on page 2

Living Image[®] software can be installed from a CD-ROM or the PerkinElmer web site. Table 1.1 shows where to find particular installation instructions.

Table 1.1 Installat	tion Types
---------------------	------------

Install From	Platform	See Page
CD	PC	3
	Macintosh	10
www.perkinelmer.com	PC	8
	Macintosh	14

1.1 Requirements

Hardware & Software Requirements

For optimum performance, Living Image[®] 4.5 software requires hardware and software that meet or exceed the following minimum requirements. If you will be using the 3D Multi-Modality tools, the graphics card must meet the requirements in Table 1.3 on page 2.



NOTE: Living Image software only supports English operating systems.

Item	Specification (PC or Macintosh)
Processor	Intel Core 2 Duo CPU or higher processor recommended
RAM recommended	4 GB or greater
Virtual memory	2 - 4 GB
Hard drive available space	Minimum: 300MB
	Recommended: 1 GB and above
Graphics card	256MB dedicated, OpenGL2.0 or later
Display	17 inch or larger

Table 1.2 Minimum Hardware Requirements Without the 3D Multi-Modality Tools

ltem	Specification
OpenGL Version Requirement ¹	OpenGL 2.0 and above.
OpenGL Extension Requirement ¹	GL_EXT_Texture3D
Graphics Card Memory	Recommended: 1GB (Dedicated)
Consumer Graphics Cards (Desktop/ Mobile, Windows/Mac)	Supported: – NVIDIA® GeForce® 8 Series and above (8, 9, 100, 200, 300 and 400 series) – ATI Radeon™ HD 4000 Series and above (4000 and 5000 series) Recommended: – Desktop - NVIDIA GeForce GT 240 and above – Mobile - NVIDIA GeForce GT 230M and above
Workstation Graphics Cards (Desktop/ Mobile, Windows/Mac)	 Supported: NVIDIA® Quadro® NVS Series and Above (NVS & FX series) ATI FireGL™ V5600 and Above (FireGL, FirePro & CrossFire series) Recommended: Desktop - Quadro FX 1800 and above Mobile - Quadro FX 880M and above

Table 1.3 Graphics Card Requirements for 3D Mul	Iti-Modality Tools
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¹If these specifications are not met, the 3D Multi-Modality tools will not appear in the tool palette.

Table 1.4	Minimum	Software	Requirements
	I VIII III III III III III III III III	001104010	rioquirornorito

Operating System	Requirement
Windows	Windows 7, SP1 64-bit; Windows 7, SP1 32-bit; Windows 8.1
Macintosh	Mac OS 10.7 to 10.10

1.2 Contact Information

PerkinElmer Health Sciences 940 Winter Street Waltham, Massachusetts 02451 USA www.PerkinElmer.com

Technical Support Telephone: +1 (800) 762-4000 (US) or +1 (203) 425-4602 Fax: +1 (203) 944-4904 E-mail: global.techsupport@perkinelmer.com

Sales: CustomerCareUS@perkinelmer.com

2 Installing Living Image[®] Software On a PC

Installing Software From the CD-ROM Installing Software From the Internet on page 8

2.1 Installing Software From the CD-ROM

NOTE: Living Image 4.5 software can only be installed on a Windows 7.1 with SP1 (32-bit or 64bit) or Windows 8.1. Administrative privileges are required to install and configure Living Image 4.5 software on Windows operating systems.

Living Image software will be installed at the following locations:

Application	Location
32-bit application on Windows 7.1 32-bit OS	C:\Program Files\Caliper Life Sciences\Living Image
32-bit Application on Windows 7.1 64-bit OS	C:\Program Files (x86)\Caliper Life Sciences\Living Image
64-bit Application on Windows 7.1 64-bit OS	C:\Program Files\Caliper Life Sciences\Living Image
32-bit application on Windows 8.1 32-bit OS	C:\Program Files\Caliper Life Sciences\Living Image
32-bit Application on Windows 8.1 64-bit OS	C:\Program Files (x86)\Caliper Life Sciences\Living Image
64-bit Application on Windows 8.1 64-bit OS	C:\Program Files\Caliper Life Sciences\Living Image

The 32-bit application will work on a 32-bit or 64-bit operating system; however, the 64-bit application is recommended for a 64-bit operating system. Only the 32-bit application can be installed on a 32-bit operating system.

1. Insert the Living Image 4.5 software CD-ROM into the workstation computer.

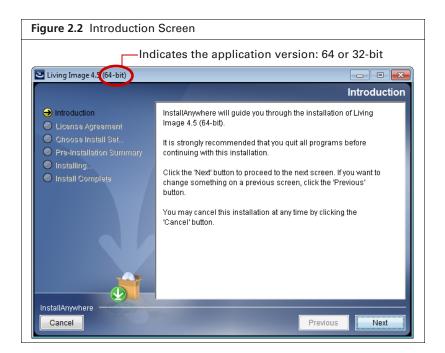
The Welcome screen appears (Figure 2.1).

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NOTE: If the Welcome screen does not appear, use Windows Explorer to navigate to \Windows\directory on the installation CD/ROM. Right-click the Install.exe file and select "Run as administrator" from the shortcut menu, then enter the local administrator's user name and password.



2. In the Welcome screen, choose a language and click **OK**. The Introduction screen appears (Figure 2.2).



- 3. Review the introductory information and click Next.
- 4. Read the license agreement that appears (Figure 2.3.)

III



5. To continue with the installation, accept the terms of the license agreement and click **Next**. The Choose Install Set screen appears (Figure 2.4).

Living Image 4.5 (64-bit)	
	Choose Install Set
Introduction	
 ✔ License Agreement ➔ Choose Install Set 	Living Image® 4.5 will now install with all standard analysis features.
 Pre-Installation Summary Installing Install Complete 	For data acquisition and other advanced features, please select from the following options.
	Add this option if installing on an MIS data acquisition computer Data Acquisition Module.
	Advanced Features, sold separately and require separate licenses.
	3D Multi-Modality Module

Living Image 4.5 is now ready to install the standard analysis features.

Data Acquisition Module - Choose this option if you are installing the software on an acquisition workstation.

3D Multi-Modality Module - Choose this option to install the 3D Multi-Modality tools. **DyCE Module** - Choose this option to install the DyCE tools.

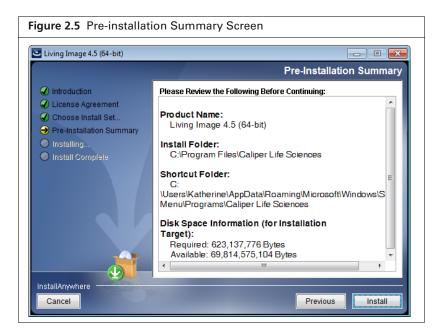
NOTE: The 3D Multi-Modality tools and the DyCE tools each require a separate license.

6. Click Next

7. In the Pre-Installation Summary screen (Figure 2.5), confirm that the installation information is correct, then click **Install**.

If the Living Image 4.5 installer detects the Living Image 3.x application (analysis or acquisition version), you are prompted to confirm uninstallation of the earlier version (Figure 2.6).

Click **Yes** in the confirmation message to uninstall the Living Image 3.x software and install the Living Image 4.5 software. Click **No** to terminate the installation program.



NOTE: If older Living Image software is installed on the acquisition computer, the Living Image 4.5 installer will uninstall the old software and copy all essential acquisition calibration files (CameraInfo.txt, CameraLog.txt, Background folder, LI_AutoBkgList.csv, Emfilters folder, FLReference folder, SLReference folder, CCDCal folder, if such exists) to the Living Image 4.5 directory.

Figure 2.6 Confirmation Message to Uninstall Older Living Image Software		
?	Older version present on the machine. An older version of Living Image® was found installed on this machine. Installing Living Image® 4.5 will uninstall the old version before proceeding. Do you want to proceed? Yes	

NOTE: If the message shown in Figure 2.7 appears, click **OK**. The installation will proceed without any problems.

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8. Click Done when the installation is finished (Figure 2.8).

Figure 2.8 Install Complete Screen		
Living Image 4.5 (64-bit)		
	Install Complete	
 Introduction License Agreement Choose Install Set Pre-Installation Summary Installing Install Complete 	Congratulations! Living Image 4.5 (64-bit) has been successfully installed to: C:\Program Files\Caliper Life Sciences Press "Done" to quit the installer.	
InstallAnywhere Cancel	Previous	

- **9.** After successful installation on an acquisition computer, start the Living Image 4.5 software and verify that you can initialize the IVIS[®] Imaging System. If you are unable to initialize the imaging system, contact PerkinElmer technical support (see page 2).
 - **NOTE:** After installing Living Image[®] software, you must activate the permanent license. If the 3D Multi-Modality and DyCE tools were installed, a separate license for each must be activated. See page 17 for more information.

2.2 Troubleshooting Installation

If the error message shown in Figure 2.9 appears, it indicates that the installation cannot proceed due to limited user privileges. Click **OK** in the message to cancel the installation.

Figure 2.9 Error Message					
Windows Installer					
The system administrator has set policies to prevent this installation.					
ОК					

To resolve this issue:

• Login with the Administrator user account and start the installation.

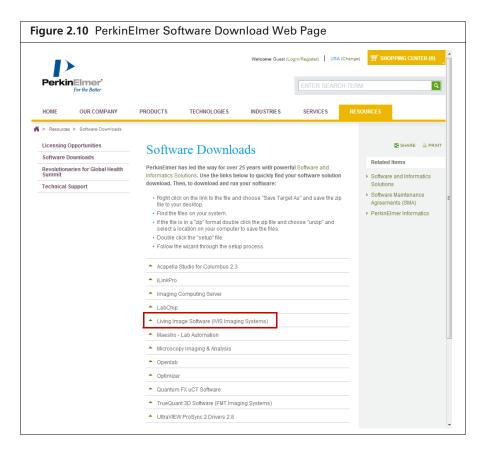
OR

• Right-click the Install.exe file and select "Run as administrator" from the shortcut menu, then enter the local administrator's user name and password.

If installation does not proceed, please contact your IT department.

2.3 Installing Software From the Internet

1. Go to the download URL: http://www.perkinelmer.com/resources/software-downloads.xhtml.



- **2.** Click "Living Image Software (IVIS Imaging Systems)" on the download page and select a setup file (for example, "Windows x64 (64-bit)").
- 3. Click **Run** in the dialog box after the download is complete.

Figure 2.11 File Download Dialog Box				
Open File - Security Warning				
Do you want to run this file?				
Name: loads\LivingImage 44 SP2 WIN 64bit Install.exe Publisher: PerkinElmer, Inc. Type: Application From: C:\Users\Katherine\Downloads\LivingImage_44				
Bun Cancel Image: Cancel Image: Cancel Image: Cancel I				

4. Choose a language and click **OK** in the Welcome screen that appears (Figure 2.1 on page 4). Follow step 3 to step 9 in *Installing Software From the CD-ROM* on page 3 to continue the installation.



NOTE: After you install the software, you must activate the permanent license. See page 17 for more details.

3 Installing Living Image[®] Software On a Macintosh

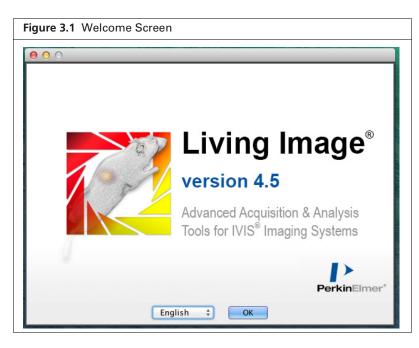
Installing Software From the CD-ROM Installing Software From the Internet on page 14

3.1 Installing Software From the CD-ROM

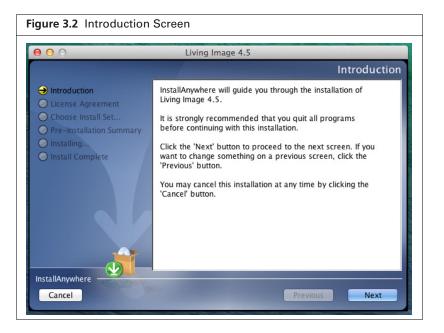


NOTE: Living Image® 4.5 software requires Mac OS X 10.6 or later.

1. Insert the Living Image 4.5 software CD-ROM into the workstation computer. The Welcome screen appears.



- **2.** In the Welcome screen, choose a language and click **OK**. The Introduction screen appears (Figure 3.2).
- 3. Review the introductory information that appears and click Next.



4. Read the license agreement. To continue with the installation, accept the terms of the license agreement and click **Next**.

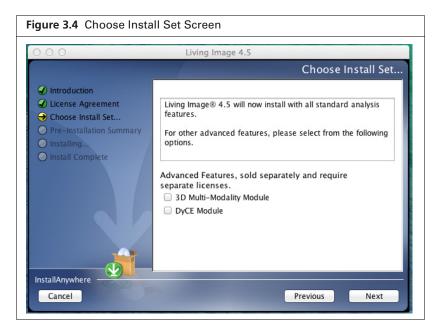
00	Living Image 4.5
	License Agreeme
	Installation and Use of Living Image 4.5 Requires Acceptance of the Following License Agreement:
Choose Install Set Pre-Installation Summary Installing Install Complete	CLICK-THROUGH LICENSE AGREEMENT *** <u>IMPORTANT INFORMATION—PLEASE READ CAREF</u>
	This Software contains computer programs and other proprie information, the use of which is subject to and expressly conditioned up License Agreement (the <u>"Agreement</u> "). This Agreement is a legally between you (meaning the individual person or the entity that the indiv has obtained the Software for its internal productive use and not for <u>"Licensee</u> ") and PerkinElmer Health Sciences, Inc., with offices at 68 Elt MA 01748 ("ParkinElmer"). This Agreement gaverne Licensee's use of
	 I accept the terms of the License Agreement I do NOT accept the terms of the License Agreement

- NOTE: Only the analysis features of Living Image® software can be installed on a Macintosh.
- If you are installing the optional 3D Multi-Modality and/or DyCE tools, choose these options in the Choose Install Set screen. Click Next. The installation proceeds.



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NOTE: The 3D Multi-Modality and the DyCE tools each require a separate license.



6. In the Pre-Installation Summary screen, confirm that the installation information is correct, then click **Install**.

The installation proceeds.

00	Living Image 4.5
	Pre-Installation Summary
 Introduction License Agreement Choose Install Set Pre-Installation Summary Installing Install Complete 	Please Review the Following Before Continuing: Product Name: Living Image 4.5 Install Folder: "Caliper Life Sciences" in the folder "Applications" on the disk "Mac10.9" Alias Folder: "Desktop" in the folder "administrator" on the disk "Mac10.9" Disk Space Information (for Installation Target): Required: 397,457,450 Bytes
nstallAnywhere	Previous

 $\overline{\mathbb{W}}$

7. After the installation is finished, click **Done** in the Install Complete screen.

	Install Complete
 Introduction License Agreement Choose Install Set Pre-Installation Summary Installing Install Complete 	Congratulations! Living Image 4.5 has been successfully installed to: /Applications/Caliper Life Sciences Press "Done" to quit the installer.

8. Enter your user name and password in the Authenticate dialog box that appears and click OK.

Figure 3.7	Authentication Dialog Box	
	Licenseinstaller requires that you type your password.	
	Name: Username	
	Password:	
▶ Details		
(?)	Cancel OK	

NOTE: After installing Living Image[®] software, you must activate the permanent license. If the 3D Multi-Modality and DyCE tools were installed, a separate license for each must be activated. See page 17 for more information.

3.2 Installing Software From the Internet

1. Go to the download URL: http://www.perkinelmer.com/resources/software-downloads.xhtml.

Figure 3.8 PerkinE	Imer Soft	ware Dowr	load Web	Page			
			Welcome Guest (Login/Register) USA ((Change)	∰ SHO	PPING CENTER (0)
PerkinElmer For the Better						M	٩
HOME OUR COMPANY	PRODUCTS	TECHNOLOGIES	INDUSTRIES	SERVICES	RES	OURCES	
A > Resources > Software Downloads							
Licensing Opportunities Software Downloads	Softwa	are Downlo	ads				SHARE 🚊 PRINT
Revolutionaries for Global Health		nas led the way for over				Related	
Summit Technical Support	Informatics Solutions. Use the links below to quickly find your software solution download. Then, to download and run your software:					 Software Solution: 	and Informatics
	file to you Find the file select al Follow th Acapella: ILinkPro ILinkPro ILinkPro LabChip Living Im: Maestro Microsco; Openlab Optimizer Quantum TrueQuar	lies on your system. is in a "zip" format doubli cation on your compute ick the "setup" file. a wizard through the seth Studio for Columbus 2.3 Computing Server age Software (IVIS Imagi Lab Automation by Imaging & Analysis	e click the zip file and r to save the files. 			Agreeme	Maintenance ents (SMA) mer informatics

2. Click "Living Image Software (IVIS Imaging Systems)" on the download page and select LI_<version>_MAC_Install.zip. Click OK in the download prompt that appears (Figure 3.9). The File Download dialog box appears.

Figure 3.9 Confirm and Begin Download	
Opening 6667.zip	● ○ ○ 16% of 1 file - Downloads ○
You have chosen to open	6667.zip <u>Cancel</u>
📷 6667.zip	219
which is a: PC ZIP Archive	Pause 11.5 of 69.6 MB at 41.6 KB/sec; 23:49 remain
from: http://caliperls.com	
What should Firefox do with this file?	
• Open with Stufflt Expander (default)	₹ ¹ 20
○ Save to Disk	
Do this automatically for files like this from now on.	
Cancel OK	→
	All files downloaded ter 🧮 Daskton

3. Double-click the .zip file \P . (In this example, the file was saved to the desktop.) The install icon appears on the desktop.



4. Double-click the install icon

 \square

5. For all Mac OS, except Mac OS X 10.8 (Mountain Lion), follow step 3 to step 8 on page 10 to 13.

NOTE: After you install the software, you must activate the permanent license. See page 17 for more details on activating a license.

6. For Mac OS X 10.8 (Mountain Lion) only:

NOTE: Administrator privileges are required to perform the following steps.

a. Click "Cancel" in the error message that appears (Figure 3.11

Figure 3.11 Error Message					
	"LI_4.5_Install" is damaged and can't be opened. You should move it to the Trash.				
?	Safari downloaded this file today at 11:45 AM.				
)					

b. Go to System Preferences and click Security & Privacy (Figure 3.12).

Figure 3.12 System Preferences							
	Show All		System P	references		Q	
Personal	Desktop & Screen Saver	Dock	Mission Control	Language & Text	Security & Privacy	Spotlight	Notifications
Hardware CDs & DVDs		Energy Saver	Keyboard	Mouse	Trackpad	Print & Scan	Sound
internet &	Wireless @ Mail, Contacts & Calendars	Network	Bluetooth	Sharing			
System LSE Groups	Parental Controls	Date & Time	Software Update	Dictation & Speech	O Time Machine	Accessibility	Startup Disk

- **c.** In the General tab of Security & Privacy:
 - **1)** Click the lock icon (Figure 3.13).
 - **2)** Choose the Anywhere option.
 - **3)** Click the lock icon.

Figure 3.13 Security	& Privacy – General Tab				
	○ ○ ○ Security & Privacy				
	Show All				
	General FileVault Firewall Privacy A login password has been set for this user Change Password Require password immediately ‡ after sleep or screen saver begins Show a message when the screen is locked Set Lock Message Disable automatic login Allow applications downloaded from: Mac App Store Mac App Store and identified developers Anywhere				
Click to unlock——— or lock settings.	Click the lock to prevent further changes. Advanced ?				

- **d.** Double-click the install icon **Sec.**
- **e.** Follow step 3 to step 8 on page 10 to 13.

4 Activating a License

Activating a License Over the Internet Manually Activating a License on page 19 Activating a License Over the Internet on page 17 Troubleshooting Licensing Error Messages on page 22

The Living Image[®] software is licensed to individual workstations. The software provided with an IVIS[®] Imaging System includes a five seat license that permits you to install the software for data analysis on up to five workstations. After the software is installed, you have 30 days to activate the permanent license.

The 3D Multi-Modality Tools plug-in and the DyCE plug-in each require a separate license.

There are two ways to activate a license:

- Internet activation Activates the license over the Internet
- Manual activation For workstations not on a network



NOTE: A license from Living Image 3.x cannot be transferred to Living Image 4.5.

4.1 Activating a License Over the Internet

1. Start the Living Image software (double-click the 🌠 icon on the desktop).

The main window appears and shows the number of days that remain to activate a license for the Living Image software and the 3D Multi-Modality Tools and/or DyCE plug-in (if the3D Multi-Modality and/or DyCE tools were selected during installation).

2. Click Activate License (Figure 4.1).

Living Image® 4.5 (64-bit)			?	🚺 Living Image® 4.5 (64-bit)
icense Information				Activation Information
Licensed to				
User: KSA				
Organization:				
License details				The following information was entered during the installation of Living
Product : Living Image® 4.5 (6	54-bit)			Image 4.5. Please confirm the information and select "Activate" button to proceed.
Type: Evaluation License.				To activate the product with a different serial number, please enter the details below before proceeding.
Status: License expired.				details below before proceeding.
Expiry: 2-MAR-2011				
Features Feature	Туре	Status	Serial N	License Details
Living Image		Inactive - Requires License		User Name*: KSA
3D Multi-Modality Tools	Plug-in	Inactive - Requires License		Organization:
Spectral Unmixing and DyCE		Inactive - Requires License		Serial Number* :
				*Mandatory Information
				Activation Type Internet Activation Proxy Settings
•			T	Internet Activation Proxy Settings Manual Activation
		Activate License	Close	<< Back Activate

NOTE: To evaluate the software without activating a license, click Evaluate.

- **3.** In the dialog box that appears, enter your user name, organization name.
- **4.** To activate the Living Image license, enter the serial number for the software application. To activate the 3D Multi-Modality Tools license, enter the serial number for the 3D Multi-Modality tools plug-in.

To activate the DyCE tools license, enter the serial number for the DyCE tools plug-in.

5. Choose the Internet Activation option and click **Activate** You will be notified of a successful activation.

Living Image	e® 4.5 (64-bit)	
ı	iving Image® 4.5 has been successfully activated	
Thank you for	activating this copy of Living Image® 4.5	
Licensing infor menu within Li	mation can be viewed by selecting "License Information" from the "Hel ving Image® 4.5	p*
For more infor	mation and support :	
Contact	PerkinElmer 68 Elm Street Hopkinton, MA USA 1.800.762.4000 (Toll Free in the United States) 1.203.925.4602 Fax: 1.203.944.4904 E-mail: Global.techsupport@perkinelmer.com www.perkinelmer.com	
	Close	

Specifying Proxy Settings

By default, the activation connects directly to the license server on port 443. If a proxy server is used at your location, specify the proxy settings.

- 1. Click Proxy Settings.
- **2.** In the dialog box that appears, put a check mark next to Proxy Settings and enter the values for the proxy server. Contact your IT department for details about the correct proxy server settings.

Figure 4.3 Select Proxy Settings	
Living Image® 4.5 (64-bit)	
Activation Information	
The following information was entered during the installation of Living Image 8.4.5. Please confirm the information and select "Activate" button to proceed. To activate the product with a different serial number, please enter the details below before proceeding.	
User Name*: KSA	
Organization:	
Serial Number*:	🔽 Advanced Options
*Mandatory Information	Proxy Settings
Activation Type Internet Activation Manual Activation Proxy Settings	HTTP Proxy: Port:
	User Name: Password:
< <back activate<="" th=""><th>ОК</th></back>	ОК
h.	

4.2 Manually Activating a License

For manual activation, generate a machine ID file and e-mail it to PerkinElmer technical support. You will receive a license file by e-mail that can be manually activated.

1. Start the Living Image software (double-click the **W** icon on the desktop).

The main window appears and shows the number of days that remain to activate the license.

- 2. Click Activate License.
- **3.** In the dialog box that appears, enter your user name, organization name, and software serial number.
- 4. Choose the Manual Activation option and click Activate.
- **5.** In the dialog box that appears:
 - a. Click Save to file.
 - **a.** Select a directory for the file and click **Save**.
- 6. E-mail the machine ID file to global.techsupport@perkinelmer.com.

Living Image® 4.5 (64-bit)	Living Image® 4.5 (64-bit)	?
Activation Information	Manual Activation Information	
The following information was entered during the installation of Living image 4.5. Please confirm the information and select "Activate" button to proceed. To activate the product with a different serial number, please enter the details below before proceeding.	Machine ID: 6C - F0 - 49 - 79 - 1E - 84 Save to file	
License Details User Name*: KSA Organization: Serial Number*: " Mandatory Information	Please click on "Save to file" to generate a "LicMachineInfo.txt" file. Forward this file to PerkirElmer Globalt.tch:support@perkineImer.com requesting your Living Image license file. Upon receiving the license file, please return to "Manual Activation" and then proceed with "Activation".	
Activation Type Internet Activation Proxy S Internet Activation Proxy S	Browse for License file	

7. After you receive the license file from PerkinElmer technical support, click the **Browse** button ... and navigate to the license file.

Figure 4.5 Brow	vse to License File	9
Viving Image® 4.5 (64-	bit)	? 💌
Manual Activation Inform	ation	
Machine ID:	6C - F0 - 49 - 79 - 1E - 84	Save to file
Forward this file to Perki Global.techsupport@ Image license file.	ile" to generate a "LicMachineInfo.t Himer perkineImer.com requesting you e file, please return to "Manual Acti	r Living
borreceiving the next then proceed with "Activ	ation".	
	<< Back	Close

8. Click Close.

The license is activated.

Editing a License File

Sometimes it may be necessary to edit a license file for renewal or repair purposes.

To edit a license file:

- **1.** Open the license information dialog box (select Help \rightarrow License Information on the menu bar).
- **2.** Right-click the serial number of the file license and select **Edit File-Based Licenses** from the shortcut menu.

cense Information				
Licensed to				
Jser:				
Organization:				
License details				
Product : Living Image ® 4.4 (6	i4-bit)			
Type: File-Based License.				
Status: VALID				
Expiry: 15-DEC-2012 (206 days remaining)				
	ays remaining)			
Features	Туре	Status	Serial Number	
Living Image		Active - Licensed	File-based License	
3D Multi-Modality Tools	Plug-in	Active - Licensed		
Spectral Unmixing and DyCE	-	Inactive - Requires Lie	Edit File-Based License	
spectral officiality and byce	r iug in	mocure requires eres	chise success	

3. In the dialog box that appears, use the Add or Delete buttons **+×** to edit the license configuration.

	Feature Name	Expiry	Host ID
1	3dmultimodality	22-JUN-2012	
2	LivingImageApp	15-DEC-2012	

- 4. Click Save.
- **5.** Restart the Living Image software.

4.3 Returning a License

You can return a license so that it is available for use on another workstation. If you have renewed a license, you must return the old license before you can activate the new license.

To return a license:

- **1.** Select $Help \rightarrow License Information on the menu bar.$
- 2. In the dialog box that appears, click Return License and click Close.

Image: Constraint of the second s
Return License Activate License Close

4.4 Troubleshooting Licensing Error Messages

Error Message	Possible Causes	Solutions
Unable to send application activation to remote server.	The workstation is unable to reach the PerkinElmer Licensing server on the Internet on port 443. This may be because the workstation is not connected to a network or the network firewall is preventing communication on port 443.	 Verify that the workstation can connect to the Internet. Check the local firewall policies of the IT group responsible for the network.
The activation of the fulfillment is denied by the activation policy because max extra acts exceeded #9679-7028.	The maximum number of seats available on the license have been activated.	 Return a Living Image 4.5 license from another workstation. Acquire additional license seats from PerkinElmer .

 Table 4.1
 Licensing Error Messages