Bio-Rad Laboratories, Inc.

Release Notes for Bio-Plex Manager Software

Version 6.2

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Introduction

Bio-Plex Manager software enables you to control Bio-Plex 200 or Luminex 200 instruments using xMAP technology and analyze multiplex data from any xMAP instrument. Depending on the license, you can perform system maintenance, calibration, and data collection as well as automate data optimization and perform data analysis. Bio-Plex Manager is available in three licenses:

- Instrument Control – enables the software to control the array reader and microplate platform and to collect, analyze, and output data.
- Desktop – enables the software to analyze data files but not control the array reader and platform.
- Network – enables multiple users to use the Desktop license over a computer network. Multiple users can use the software to analyze data file but not control the array reader and platform.

New Features

Support for Windows 10 64-bit Operating System

Bio-Rad's Bio-Plex Manager software is now supported on Windows 10 64-bit operating system.

Updated Panels

The software provides new and updated panels. Obsolete panels (those older than two years) have been removed from the software.

Supported Operating Systems

Bio-Rad has tested Bio-Plex Manager software on the following Microsoft Windows operating systems:

- Microsoft Windows 7 (32-bit and 64-bit)
- Microsoft Windows 10 (64-bit)

System Requirements

The following table lists the minimum and recommended system requirements for the computer running Bio-Plex Manager software.

System	Minimum	Recommended
Operating system	Windows 7 32-bit or 64-bit	Windows 10 Pro 64-bit
Processor speed	Pentium 4 or equivalent, 2.8 GHz	Intel Core i5, 3.0 GHz or higher
Hard drive space	80 GB	160 GB or higher
Drive	1 DVD-RW drive	1 DVD-RW drive
RAM	1 GB	4 GB or more
Screen resolution	1280 x 1024 with 24-bit true-color mode	1280 x 1024 with 24-bit true-color mod
Ports for connecting to Readers manufactured after November 2015 (required for Instrument Control license only)	1 USB port	1 USB 2.0 port
Ports for connecting to Readers manufactured before November 2015 (required for Instrument Control license only)	1 RS232 serial port and 1 USB port	1 RS232 serial port and 1 USB 2.0 port

System	Minimum	Recommended
Port for connecting the Hasp key	1 USB port	1 USB 2.0 port
Other software	• Internet Explorer 6.0 or higher • Microsoft Excel 2010 or higher • PDF Reader	• Microsoft Edge • Microsoft Excel 16

Installing Bio-Plex Manager Software

The installation wizard guides you through the steps necessary to install Bio-Plex Manager 6.2. The procedure for installing or upgrading Bio-Plex Manager is the same. The Bio-Plex Manager installer removes existing versions of the software before installing the current version.

IMPORTANT: Secure Boot must be disabled on the Windows operating system before installing Bio-Plex Manager. Contact your system administrator for information about disabling Secure Boot.

NOTE: We recommend that you turn off any antivirus protection software before installation. Such software, if active, can greatly slow the progress of the installation. If you are unable to turn off your antivirus protection software, allow 15 minutes for complete installation. Do not cancel the installation during this period.

To install or upgrade Bio-Plex Manager

1. Insert the Bio-Plex Manager Software DVD into the DVD drive on your computer.

   If the installation program does not automatically start, double-click the file *CDbrowser.exe* to open the Bio-Plex Manager Program screen.

2. Select the Install Bio-Plex Manager radio button to start the program installer.
3. Follow the onscreen installation instructions and click Finish to complete the installation.
4. After installation completes, you can safely eject the software DVD.

IMPORTANT: The Bio-Plex Manager installer detects whether Luminex xPONENT is installed on the computer. If xPONENT is detected, Bio-Plex Manager is installed such that it will not control the instrument (that is, in Desktop mode). You can import data files using the RBX Generator software and analyze your data using Bio-Plex Manager. However, you cannot control the instrument if xPONENT software is installed, even if you have the Instrument Control license.

Installing the HASP License Manager

The HASP network license server must be operational whenever a user on the network wants to run Bio-Plex Manager software using a multi-user license. Restarting the HASP network license server can temporarily disrupt users, so a frequently used workstation is not a good choice as a server for the HASP License Manager.

IMPORTANT: Do not install the HASP License Manager on a computer on which Bio-Plex Manager software is installed. Likewise, do not install Bio-Plex Manager software on the HASP network license server computer.

Tip: The individual performing the installation must have Administrator privileges on the selected computer.

This section explains how to

- Install the HASP drivers
- Prepare the HASP License Manager installation file
- Install the HASP License Manager as a service
- Enable the HASP License Manager service to run

To install the HASP drivers

1. Insert the Bio-Plex Manager DVD into the license server computer's DVD drive.
2. Extract the contents of the DVD to a location on the license server computer, for example

   c:\Temp\Bio-Plex Manager 6.2 Software
3. In Windows Explorer, navigate to and open \Hasp Utilities\HASPDRIVERS folder located in the extracted files, for example

   c:\Temp\Bio-Plex Manager 6.2 Software\Hasp Utilities\HASPDRIVERS
4. Double-click *HASPUserSetup.exe* to start the HASP driver installation.
5. Follow the onscreen instructions and click Finish to complete the installation.

To prepare the installation file

1. In Windows Explorer, navigate to and open \Hasp Utilities\HASPSERVERS folder located in the extracted files, for example

   c:\Temp\Bio-Plex Manager 6.2 Software\Hasp Utilities\HASPSERVERS
2. Right-click the *lmsetup.exe* file.
3. In the file menu, click Properties. The lmsetup.exe Properties dialog box appears.
4. Select the Compatibility tab.
5. In the Compatibility mode section, select "Run this program in compatibility mode for" and choose Windows Vista (Service Pack 2) from the dropdown list.
6. In the Settings section, select "Run this program as an administrator".
7. Click OK to save the changes and close the lmsetup.exe Properties dialog box.

To install the HASP License Manager as a service

Note: Bio-Rad strongly recommends that you install the HASP License Manager as a service.

1. In Windows Explorer, navigate to the folder that contains the *lmsetup.exe* file, for example

   c:\Temp\Bio-Plex Manager 6.2 Software\Hasp Utilities\HASPSERVERS

2. Double-click *lmsetup.exe* to start the HASP License Manager installation.
3. On the Installation Type screen select the Service (nhsrvice.exe) radio button.
4. Follow the onscreen instructions to install the HASP License Manager.
5. During the installation, you will see a message informing you that the HASP SRM Run-time Environment installation was omitted because a newer version is already installed. This is correct.

   Click OK on the message dialog box to continue the installation.
6. Click Finish to complete the installation.
7. Insert the Bio-Plex Manager NetHASP key into a USB port on the computer.
8. To configure client computers to access the Bio-Plex Manager license server, see the *Bio-Plex Manager Installation and Configuration Guide*.

To enable the HASP License Manager service to run

If Data Execution Prevention (DEP) is turned on for all programs and services, you must add the HASP License Manager service executable as an exception.

1. In Windows Explorer, navigate to and right-click My Computer and select Properties.
2. In the System window, click Advanced system settings.
3. In the System Properties dialog box, select the Advanced tab and click Settings in the Performance section.
4. In the Performance Options dialog box, select the Data Execution Prevention tab.
5. Select “Turn on DEP for all programs and services except those I select” and click Add.
6. In the Open dialog box, browse to and select the *nhsrvice.exe* file:
   - For 32-bit: c:\windows\system32\nhsrvice.exe
   - For 64-bit: c:\windows\SysWOW64\nhsrvice.exe
7. Click Open.

   The HASP License Manager Service appears in the Performance Options dialog box as an exception.
8. Click OK to save the changes and exit the Performance Options dialog box.
9. When prompted, restart your computer to activate the changes.

Documentation

The Bio-Plex Manager software DVD installs the Bio-Plex Manager guides, which you can access on the Help menu in any view. More information about Bio-Plex Manager software is available from the following sources:

- Bio-Plex Manager software installation guide (hard copy and PDF)
- Bio-Plex Manager user guide (PDF)
- Bio-Plex Manager online help
- Bio-Plex Results Generator online help

To access the PDF documents

➢ In Windows, navigate to Start > Programs > Bio-Plex Manager.

Contacting Technical Support

The Bio-Rad Technical Support department in the U.S. is open Monday through Friday, 5:00 AM to 5:00 PM, Pacific time.

Phone: 1-800-424-6723, option 2
Email: Support@bio-rad.com (U.S./Canada Only)

For technical assistance outside the U.S. and Canada, contact your local technical support office or click the Contact us link at bio-rad.com.

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