Software 2.0.0 Content of the second sec

Installation Guide

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Regulatory information

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

History

Revision	Date	Change made
23-20709-00	2018-06	Initial release.
23-20709-01	2019-08	 —Updated steps to install BD Rhapsody™ Scanner software. —Added steps to install and start BD Rhapsody™ Scanner diagnostics software. —Updated BD Biosciences technical support email address to scomix@bdscomix.bd.com.
23-24426(01)	2023-03	 —Updated to software version 2.0.0. —Supports the BD Rhapsody™ HT Xpress System and BD Rhapsody™ 8-Lane Cartridge. —Strict order of scanning steps. —Optimization for "Bead Load" step in the workflow. —Increased scanning speed through optimized tile configuration and smart autofocus mode. —Drastic increase in analysis speed (for BD Rhapsody™ 8-Lane Cartridges) as well as single-lane cartridges. —Improved Error and Warning messaging. —Introduced user input validation to mitigate risks of internal data corruption due to use of special characters.

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Overview

This document provides instructions for uninstalling, installing, and launching the BD Rhapsody[™] Scanner software. The BD Rhapsody[™] software installer package is comprised of the following installers:

- RhapsodyPrerequisitesInstaller.exe
- RhapsodyHTExpressScanAnalyzer.msi
- RhapsodyEngineerInstaller.msi
- RhapsodyUserDocsInstaller.msi

As well as the following third-party installers:

- MATLAB_Runtime_R2021a_Update_5_win64
- Adobe Acrobat-ver.22.003.20322

Note: For ease of installation, we recommend updating the scanner software using a keyboard and mouse. However, these are not required to successfully complete the installation.

Confirming current software version

To verify the existing software version, follow these instructions:

1. In the Search field of the Windows Taskbar, type Control Panel.

=	Control Panel Desktop app	Þ
۵	Арря	
0	Default Programs	
	Search my stuff	

2. Click Uninstall Program.

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3. Confirm the software version for Rhapsody Scanner - Scan, Rhapsody Scanner - Analysis, and Rhapsody Scanner - Diagnostics Apps.

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	IPhapoody Scanner - Analysis 1.3.0.13 IPhapoody Scanner - Diagnostics 1.3.0.13 IPhapoody Scanner - Scan 1.3.0.13 IPhapoody Scanner - Scan 1.3.0.13	BD Genomics BD Genomics BD Genomics	11/10/2022 11/10/2022 11/10/2022	187 MB 6,21 MB 175 MB	1.3.8.13 1.3.8.12 1.3.8.13
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- a. If the current version of the software is v2.0.0 or later, no further action is required.
- b. If the current version of the software is v1.3.1.1 or v1.3.0.13 for both the Scan and Analysis applications, follow the instructions in this document.
- c. If the current version precedes v1.3.1.0.13, install software v1.3.1.1 before proceeding with installing v2.0.0 (important for data and calibration migration!).

Installing MATLAB Runtime

- 1. Open folder MATLAB_Runtime_R2021a_Update_5_win64.
- 2. Open setup.exe.

> MATE	AB_Runtime_R2021a_Update_5_win64 >	v Ø Search	MATLAB_Runtime_R20	21a_Update_5_win64	
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1	L bin	1/26/2023 9:05 AM	File folder		
1	extern	1/26/2023 9:05 AM	File folder		
10	📕 java	1/26/2023 9:48 AM	File folder		
*	productdata	1/26/2023 9:48 AM	File folder		
1	resources	1/26/2023 9:07 AM	File folder		
	sys	1/26/2023 9:03 AM	File folder		
	📮 ui	1/26/2023 9:07 AM	File folder		
	utils	1/26/2023 9:05 AM	File folder		
	app_uninstaller.zip	1/26/2023 9:48 AM	Compressed (zipp	20,750 KB	
	MCR_license.txt	1/26/2023 9:07 AM	Text Document	6 KB	
	🚸 setup.exe	1/26/2023 9:05 AM	Application	495 KB	
	🌋 VersionInfo.xml	1/26/2023 9:07 AM	XML Document	1 KB	

3. Click Next.

A MATLAB RU	ntime installer		- 0	×
This applicatio	n will install MATLAB Runtime.			
			MATL	AB'
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			1	1
MATLAB and Si mathworks.com trademarks or re	mulink are registered trademarks of The MathWorks, Inc. Pi vtrademarks for a list of additional trademarks. Other prod egistered trademarks of their respective holders.	ease see uct or brand names may be		
WARNING: This The MathWorks	program is protected by copyright law and international to , Inc. Protected by U.S. and other patents. See MathWorks of	eaties. Copyright 1984-2021, com/patents		
6 Back	Next >	Cancel	- Mathiw	iike-

4. Accept terms of the license agreement and click Next.

· License Agreement	- 1	a x
The MathWorks, Inc.		
MATLAB RUNTIME LICENSE		
IMPORTANT NOTICE BY CLICKING THE "YES" BUTTON BELOW, YOU ACCEPT THE TERMS OF TH SELECT THE "NO" BUTTON AND THE INSTALLATION WILL BE ABORTED.	HIS LICENSE. IF YOU ARE NOT WILLING TO D	do so,
 LICENSE GRANT. Subject to the restrictions below, The MathWorks, Inc. are an individual or an entity, a license to install and use the MATLAB Run purpose of running software created with the MATLAB Compiler (the "Applicense is personal, nonexclusive, and nontransferable. 	. ("MathWorks") hereby grants to you, wheth time ("Runtime"), solely and expressly for th plication Software"), and for no other purpo	her you he ise. This
2. LICENSE RESTRICTIONS. You shall not modify or adapt the Runtime for or reverse engineer the Runtime. You shall not alter or remove any propri Runtime. Unless used to run Application Software, you shall not rent, leas provide service bureau use, or use the Runtime for supporting any other p sell, or otherwise transfer the Runtime to any third party. You shall not rep in connection with the Runtime. All rights not granted, including without distribute, create derivative works, serve other software by means of, dece	any reason. You shall not disassemble, deci- letary or other legal notices on or in copies of e. or loan the Runtime, time share the Runti party's use of the Runtime. You shall not sub publish any documentation which may be po- limitation rights to reproduce, sublicense, re ompile, reverse engineer, and disassemble t	ompile, of the me, flicense, rovided ent, sell, he
Do you accept the terms of the license agreement? Wes ONo		

Installing Adobe Acrobat

- 1. Open folder Adobe Acrobat-ver.22.003.20322.
- 2. Open setup.exe.
- 3. Click Continue.

📌 Adobe Acrobat (C	ontinuous) - Setup	×
-	Uninstall Required	
L	The Installer has encountered the following less func product on your computer: Adobe Acrobat Reader	tional Adobe
	The Installer requires that you uninstall this less func before continuing this installation, in order to avoid a To uninstall Adobe Acrobat Reader and then install th	tional product pplication conflict. iis new product,
	choose Continue. To cancel this Installer without making any changes t choose Cancel.	to your computer,
InstallShield		
	Continue	Cancel

🕵 Adobe Acrobat (Co	ntinuous) - Setup)		×
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	Install / whethe you if t function	Adobe Genuine Servi r Adobe apps on this hey are not. Learn m nality: https://www.a	ce (AGS) which pe machine are gen rore about AGS fe dobe.com/go/ags	riodically checks uine and may notify atures and _en
InstallShield	Make A preview	dobe Acrobat my de v	fault PDF viewer f	or browsing and file
11 13 14 14 14 14 14 14 14 14 14 14 14 14 14		Customize	Install	Cancel

4. Clear the Install Adobe Genuine Service (AGS) check box and click Install.

5. Follow instructions to complete setup and click Finish.

🕵 Adobe Acrobat (Cor	ntinuous) - Setup		×
	Setup Completed.		
L	Setup has successfully inst exit the wizard.	alled Adobe Acrobat. Click Fi	nish to
	Upon launching this produc following:	t for the first time, you may	be asked the
	* Accept the end user licer * Activate this product * Register your copy of the	nse agreement e software	
InstallShield			
		Launch Now	Finish

Creating back-up for the "SystemConfiguration" folder and record experiments

- 1. Navigate to the folder C:\ProgramData\Cellular-Research.
- 2. Create a copy of the folder SystemConfiguration.

- This PC > Local Dick (C:	> ProgramData > Cellular-Research >		
P Quick access	Name	Date modified	Type
Desktop	e CantridgeSpecs	11/10/2022 5/21 PM	File fulder
A Downloads	Protecole	11/10/2002 5:20 PM	File folder
Data mante	SystemConfiguration	11/3/2022 3-25 PM	File fulder
a cocurrente	SystemConfiguration - backup	11/10/2022 5/28 PM	File folder
Pictures	Analysis.log	13/3/2022 3-54 PM	Test Docum
celfs01.bdk.com	AnalysisConfiguration.jscn	2/7/2010 11541 AM	ISON File
ProgramData	P Diagnostics.log	TU3/2022 10:10 AM	Text Docum
CartridgeSpecs	HandStopLog.cov	11/3/2022 3-55 PM	CSVFile
Esperiments, backup, 2022-11-10	Scanlog	11/0/2022 4:02 PM	Test Docum
A Result	UpdateConfig.log	11/10/2022 5/20 PM	Test Docum
-	1 1 2 2 2 2 2		

3. Navigate to the folder C:\ProgramData\Cellular-Research\Experiments and record content (for example, take a screenshot).

(1) (2) (2) + (1) (1) (1) (1)			- D'
This PC + Local Dia	153 · Propanillate · Callular-Remarch · Experiment		
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Dadice Dadice Distance Dist	alare Hue	And a	
1) terms			
Deservers			

Installing Rhapsody Prerequisites

1. Open RhapsodyPrerequisiteInstaller.exe.

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& Quick access		Name	Deterministified	Tops	2 herns			
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Experiments_backup_2022-11-10								
iA,Result								
Ruppedy								

2. Select the I agree to the license terms and conditions check box and click Install.

Rhapsody HTExpress Prerequis	r HTExpress	– Prere <mark>q</mark> ui	site
BD Rhapso	dy SOF1	WAR ENT	E

3. Select the **I agree to the license terms and conditions** check box and click **Install**. (It might take several iterations.)

×	Microsoft Visual C++ 2015 Redistributable (x86) - 14.0.24212	2
MICROS	OFT SOFTWARE LICENSE TERMS	^
MICROS	OFT VISUAL STUDIO 2015 EXTENSIONS, VISUAL STUDIO	
SHELLS	and C++ REDISTRIBUTABLE	
SHELLS : These lic	and C++ REDISTRIBUTABLE ense terms are an agreement between Microsoft Corporation (where you live, one of its affiliates) and you. They apply to the	or v

4. On the Setup - FAULHABER Motion Manager 6 window click Next.



5. Accept the License Agreement and click **Next**.



6. Select the default folder and click Next, then select the Start menu and click Next.

💕 Setup - HALHABER Motion Menager 6 🦳 🔍 🗙	👹 Setup - RAUCHABER Motion Manager 6 🛛 🚽 🖂 🗙
Select Destination Location Where should PALLY-REER. Hoton Hanager 6 be installed?	Select Start Henu Tokler Where should Setup place the program's sharts, ss?
Setup will install FALCHABER Hotor-Manager & into the following folder. To continue, dick Next, If you visual like to select a different folder, dick Browse.	Setup will create the program's shortsuts in the following Start Heru fidder. Ta continue, dick Next. If you would like to select a different fidder, dick throws.
State (10,000,000,000,000,000,000,000,000,000,	Brook.
All least 132.8 Mb of See dak space is required.	
clade Henry Canal	clask Perty Carcel

7. Clear the Create a desktop shortcut check box and click Next.



8. Finish installation (click Install and click Finish).



9. On the Welcome window, select the I agree to the pylon Terms & Conditions check box and click Next.



10. On the next screen in the Profiles section, select **Developer**. Click **Next**.

Apylon 5	× BASLER
2	Profiles
	Choose the profile that best describes your tasks.
	Camera User Developer Custom
	You can change the profile any time by running the setup again.
	Back Neits Cancel
Copyrigh	t © 2007-2018 Basier AS Rights Reserved www.basierweb.com

11. On the next screen Interfaces, select **USB**. Click **Next**.

Apylon 5		*
		BASLER
	Interfaces	
	Select how your camera(i) is/are connecte computer.	d to the
	USB Gigt FreeWire	Campo Link
	You can change the interfaces any time setup again.	by running the
	Back Next	Cancel
Copyrig	ht © 2007-2018 Basier All Rights Reserved www.basier	web.com

12. Proceed with installation with the default path. Click Next.

Andon F		×
T pyion 5		BASLER?
	Destination Folder	
	Click Next to install the pylon Camer default folder or click Change to sek	a Software Suite in the ct a different folder
- N-	Criprogram Files Basleripylon 5	10
11		Change
	Back Nyyt	Cancel
Copyrig	nt © 2007-2018 Basler Al Rights Reserved ww	w basierweb.com

13. Verify that selected installation options are **Developer** for Profile and **USB** for the Interface. Click **Install**.

Apylon 5			×
	Ready to Install		
	Profile selected Interface(s) selected:	✓ Developër ✓ USB	
	Back Inggali		Cancel
Copyright	e © 2007-2018 Basler All Rights I	leserved www.baslerwet	1.00/11

14. Click **Close** on the Prerequisite installer.



Installing "Rhapsody HTExpress ScanAnalyzer"

1. Open the RhapsodyHTExpressScanAnalyzer.msi installer and click Next.



2. Complete installation with the default path and parameters. Click Next.



Installing Engineering app

1. Open the RhapsodyHTExpressScanAnalyzer.msi installer and click Run.



2. Complete the installation. Click Next and then Finish.



Migrating data and instrument calibration files



1. From the desktop, open the Rhapsody Data Migration script.

2. In the PowerShell terminal, type *y* and press **Enter** when prompted to confirm the start of Rhapsody Data migration.



3. Wait for the data transfer to be completed and close the PowerShell terminal when the message "Rhapsody Data Migration has been successfully completed" is shown.



Verifying data migration

1. Open the Rhapsody Scan on the desktop.



2. Click About and verify that version is 2.0.0 or later.



3. Click **Analysis** and verify that experiment history has items matching what was recorded in the section Creating back-up for the "SystemConfiguration" folder and record experiments on page 10, item 3.

3D Rhaps	logy (👌 Scan 🛛 🚺	Prepare	About
story			Search	
Recent				
Lest Mud/Ned	Silver, C	Experiment	Sampley	504.e
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2022-11-10 16:42:57	Vied	Exp-U56662-a_	5mp (/56662-a	Completed
2022-11-10	Vlad	Exp-U56662	Smp-U56662 I	Completed
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Previou 4000 400	IS June AS PD AS AS AS AS AS AS AS AS AS AS AS AS	Experiment hemo-exp Test 0(]00".123 32-chars23 EX-25TP 4stps-exp-2 Exp 4stp-1 033-180	 Samples Samples Samples 3040 	Simm Completed Completed Completed Completed Completed Completed

Installing user documentation

- 1. Open RhapsodyUserDocsInstaller.msi.
- 2. Click Next.



3. Wait for the installation to be completed and click Finish.

🛃 Rhapsody HTExpress User I	Documentation Setup	-	10	×
Ð	Completed the Rhapsody Documentation Setup W	HTExpress izard	User	
	Click the Finish button to exit th	e Setup Wizard	8	
	flack	Finish	Can	cidi :

Uninstalling the BD Rhapsody[™] Scanner software for v1.3.1 or earlier

- 1. Close the BD Rhapsody Scan App and Analysis App.
- 2. Open Control Panel by navigating to the search on the taskbar and typing Control Panel.

If Control Panel is not listed correctly when searched, open it from **Start Menu > Windows System > Control Panel**.



3. Select Programs and Features in the Control Panel.



4. In Programs and Features, once again verify the versions of all BD Rhapsody[™] software. If they are 1.3.0 or 1.3.1, continue with the uninstallation.

+ → ↑ 🖸 > Control I	Panel + All Control Panel Items + Programs and Features			~ 0	Search Peoplemi and I	(estare)	Р.
Control Panel Horse	Uninstall or change a program						
View installed updates	To print of a second school is the list and then	And the second Phone on Reach					
Tran Wandman Restanted into or	to provide a program, process many the sit and then	teck constant, coange, or other.					
all	Annaly a						-
	coluce -						•
	Neve	Publisher	Installed On	Size	Version		
	TERMULHABER Motion Manager 6	Dr. Fritz Faultuber GrebH & Co	4/12/30/17	99.9 MB	6.1,1		
	THAULHABER USER Adapter (Driver Removal)	Dr. Tritz Faultaber Grebhl & Co	4/12/2017				
	ill Intel® Graphics Driver	Intel Corporation	3/15/2018	74.2 MB	20.19.15.4825		
	- MATLAR Runtime R.D.1	Mathillocks	3/13/2018		9.0.1		
	4 Microsoft GreDrive	Microsoft Corporation	3/13/2018	102 MB	18.025.0204.0008		
	EMicrosoft Visual C++ 2005 Redistributable (x64)	Microsoft Corporation	8/21/2017	6.52 MB	8.0.61000		
	Microsoft Visual C++ 2008 Redistributable - x64 9.0.3	Microsoft Corporation	1/25/2017	13.2 MB	\$10,00729,8160		
	Micreseft Visual C++ 2013 Redistributable 064) - 12.0	Microsoft Corporation	1/25/2017	20.5 MB	12.638501.0		
	Microsoft Visual C++ 2013 Redistributable (AM) - 12.0	Microsoft Corporation	1/25/2017	17.3 MB	12.0.30501.0		
	Microsoft Visual C++ 2017 Redistributable (H4) + 14.1	Microsoft Carporation	12/9/2019	23.2 MB	14.14.25429.4		
	Payton 5 Cemera Software Suite 5.0.5.8999	Baster	3/13/2018	265 MB	5.0.5.8999		
	Relink Wasters 1AN Installation Program for VISTA v2	Ralesk	3/23/2022		1.0		
	F Rhapporty Scanner - Analysis 1.3.0.13	80 Generalics	3/25/2002	107148	13.0.13		
	FRagoody Scanner - Diagnostics 1.10.13	BD Genomics	3/75/2022	6.21 MB	130.53		
	F Rhapsody Scanner - Scan 1.10.10	80 Genomics	\$/25/2022	TTS MB	1.50.13		
	EllpentFan (remove anly)		6/18/2018				
	TMCL-IDE 1.8	TRINAMIC Motion Control Get	1/25/2017	05.0 ME	3.0.16.0		
	Vipolate for Windows 10 for a64-based Systems (XB40	Monatel Corporation	11/28/2917	575.68	27.08		
	FulliCOMvitaler	Datalogic	3/13/2018	2.00 MB	63.0		
	R Windows Driver Fackage - Microsoft Faulhaber MCI	Monsett	4/12/2017		62/23/2013 6.1.7600		

- 5. Select Rhapsody Scanner Scan 1.3.1.1 or earlier.
- 6. Click **Uninstall**. In the warning dialog, click **Uninstall** again. A user Account Control dialog is displayed.

- + + + + Control -	Panal + All Control Panal here: + Programs and Features			v 8	Search Property and	(Fergures	
							1
Control Fand Horne	Uninstall or change a program						
View installed updates	To uninstall a program, select it from the list and then	click Uninstall, Change, or Repail.					
Turn Windows features on or	and the second						
off. Contract of the second	Organize - Unigital					11	
	Name Downlal this program.	Publisher	Installed On	Size	Weston,		
	AAUL-HABER Metters Manager 8	Dr. Fritz Faultiaber OmbH & Co	4150917	99.8 MB	63.5		
	FALLANABER USEX Advances (Driver Removal)	Dr. Feitz Faultaber Geshirl & Co	4/12/0917				
	M Intel® Graphics Driver	Intel Corporation	3/15/2018	74.2 MB	20.18.15.4835		
	AMATLAB Runtime 9.0.1	Mathilliorks	3/15/2018		8.0.1		
	Monosoft GraDrive.	Microsoft Carporation	3/13/2018	102 MB	18.025.8204.0008		
	Micresoft Visual C++ 2005 Radistrib-stable (x64)	Microsoft Corporation	8/21/2017	6.83 MB	8.0.61000		
	Microsoft Visual C++ 2008 Redistributable - x64 9.5.3	Microsoft Corporation	1/25/2017	13.2 MB	9.0.30729.6143		
	Microsoft Visual C++ 2013 Redistributable (v64) - 12.0	Microsoft Corporation	1/25/2017	20.5 MB	12.0.30501.0		
	Microsoft Visual C++ 2013 Redistributable (uBI) + 12.0	Microsoft Corporation	1/25/0917	17.1 MB	12.0.30501.0		
	Microsoft Visual C++ 2017 Redistributable (el4) - 14.1	Microsoft Corporation	12/5/2019	23.2 MB	14.14.25429.8		
	pyton 5 Carnera Software Suite 5.0.3.899	Basler	3/13/2010	256 MB	5.0.5.8999		
	Ralink Wireless LAN Installation Program for WSTA v2	Ralink	1/21/2022		1.0		
	Rhapiosly Scanner - Analysis 1.3.0.13	80 Generalics	1/25/2612	187 MB	1,3:0,15		
	Rhapoody Scanner - Diagnostics 1.3.0.13	80 Genomics	3/25/2622	6.21 MB	1.3.0.13		
	Rhapsody Scanner - Scan 1.3.0.13	80 Genomics	5/25/2922	175 MB	138.15		
	CESpeedFan (Jemoixe only)		6/16/2018				
	TIMEL-IDE 3.0	TRINAMIC Motion Control Gm.	1/25/2017	19.0 MB	38160		
	C Update for Windows 10 for still based Systems (KB40	Microsoft Corporation	11/29/2017	\$79.08	23.0.0		
	1 USBC04-6nstaller	Datalogic	3/13/2018	2.81 MB	6.3.0		
	RWindow Driver Package - Microsoft Faulhaber MCI	Microsoft	4/12/0817		02/22/2013 6.1.7600	-	

7. Click Yes and click Yes again in the Scan Uninstall warning dialog.



8. After the uninstall task is complete, click **OK**.



9. Repeat steps 6 - 8 to uninstall Rhapsody Scanner - Analysis 1.3.1.1 or earlier.



10. If the BD Rhapsody[™] Scanner software is v1.3.1.1, repeat steps 6 – 8 to uninstall **Rhapsody Scanner** - **Diagnostics 1.3.1.1**.



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11. Repeat steps 6 – 8 to uninstall Rhapsody HTExpress Engineering Apps (v 2.0.0).

12. Upon completion of the uninstallation for all applications, verify that all BD Rhapsody[™] Scanner software 1.3.1.1 (or earlier) is uninstalled and no longer listed.

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	Thursday Venal C++ 2005 Radiotributable (ubl)	Mousell Corporation	9/21/2017	6.02 MB	8.0.61000		
	Microsoft Visual C++ 2000 Nedlambuluble - elik 9.5.2	Microsoft Corporation	V2NdetF	10.2 MB	84,30726,8181		
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13. Once confirmed, close the Control Panel window.

14. On the desktop, right-click Rhapsody Data Migration Script and select Delete.



Starting and verifying the BD Rhapsody™ Diagnostics Software

Before starting the BD Rhapsody™ Diagnostic Application Scanner software, ensure that the Scan application is not running.

- 1. Close the BD Rhapsody Scan and Analysis Apps.
- 2. On the scanner desktop, double-click **Diagnostics**. The Diagnostics software home page will be displayed.

Note: A successful start is indicated by three green dots at the bottom of the Diagnostics application screen.

3. Select About and confirm the Diagnostics software version.

nostics	G BD	About
	BD Rhapsody Scanner	Analyzer - Diagnostics version 2.0.0.208
	noises	BD Rhapsody Scanner

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