Sequence Data Analysis Software

Installation Manual Stand-alone Version	

Part No. C-51125-10203

Introduction

Thank you for choosing DNASIS[®] MAX. This manual provides detailed installation instructions for DNASIS[®] MAX stand-alone version.

First Edition 2004.03

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Software Operating Environment

Hardware	Pentium [®] or higher microprocessor computer. (Pentium [®] III 600MHz is recommended for optimal performance.)		
OS	Windows [®] 98/ Windows [®] Me/ Windows NT [®] 4.0 (SP6 and higher)/ Windows [®] 2000/ Windows [®] XP		
	(The above refers to English language versions of the OS mentioned)		
RAM	128MB or more.		
Other	100MB of hard disk space or more.		
	CD-ROM drive (required for the initial installation).		
	 1,024×768 display, with 256-colors. 		
	Internet Explorer 4.0.1 or higher.		
	Dedicated Internet connectivity is recommended.		
	 Plasmid map display functionality: Windows NT[®]/Windows[®]2000/ Windows[®]XP is required. 		
	 For the optional Phred/Phrap package, 1GB of space or more is recommended. 		

During Installation

Please note the following terms for installation.

(1). During installation, you must log in as a user with administrative privileges (i.e. the "administrator" account).

(2). When upgrading a previous installation of DNASIS Max with this stand-alone version of DNASIS Max, please make sure the previous version is also a stand-alone version, not the network version. If you have any questions about this, please contact your regional support center (see Appendix A for more information).

Using DNASIS MAX

The required steps for installing DNASIS Max are illustrated below.

(1) Installing a New Installation of DNASIS[®] MAX V2.5 (Not Upgrading).



(2) Upgrading from DNASIS[®] MAX V1.0 to DNASIS[®] MAX V2.5



(3) Upgrading from DNASIS[®] MAX V2.0 to DNASIS[®] MAX V2.5



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Chapter 1 DNASIS[®] MAX V2.5 New Installation

1.1 Installing DNASIS[®] MAX V2.5

*Note: Administrative privileges are required for this installation.

This section gives instructions for a new installation of DNASIS MAX V2.5. If you are upgrading from a previous version of DNASIS MAX, please see the upgrade instructions below.

Insert the DNASIS[®] MAX into the CD drive. The installation screen will automatically launch. Note: If the screen does not launch automatically, double-click the 'My Computer' icon.



Double-click the Compact Disc icon to open the drive.

🖳 My Computer	
File Edit View Favorites Tools Help	
🖛 Back 👻 🤿 👻 🔂 🖓 Search 🖓 Folders 🔇	<u>略 略 X ら 囲-</u>
Address 🖳 My Computer	✓ ở‰
My Computer	DNASISMAX_V 255A (D:)
Select an item to view its description.	
4 object(s)	My Computer //

Double-click [Setup.exe] file, and display the installer dialog.



The installer dialog shown below will be displayed.

F DNASIS Installer	×
DNASIS MAX V2.5	
Install	
MSDE2000 for DNASIS Installer	
(Install DNASIS MAX before you run this installation progr	ram.)
Install	
Cantiableura ans fas DNACIC Installas	
(Install DNASIS and MSDE2000 before you run this installati	on
Install	
	Close Dialog

Click the [Install] button for [DNASIS MAX V2.5] to begin the installation of DNASIS[®] MAX V2.5.

If you click the [Install] button and the dialog shown below appears, DNASIS[®] MAX V1.0 is already installed on your PC. Please refer to Chapter 2, "Updating from DNASIS[®] MAX V1.0 to V2.5".

Setup	×
⚠	DNASIS MAX V1.0 is installed. Please UNINSTALL DNASIS MAX V1.0 first.
	ОК

- When the installation is complete, the [DNASIS Key Code Manager] dialog, used for setting up the key code, will be displayed.
- Note that [DNASIS Key Code Manager] may actually be displayed in the background of the installer dialog.
- Note that when DNASIS[®] MAX V2.5 is installed, the [Phred/Phrap Option] will still display the version as [V2.0] but this does not affect product functionality.



Click the [OK] button, and close the [DNASIS Key Code Manager] dialog. Now, install MSDE2000 following the instructions in the section below.

1.2 Installing MSDE2000

*MSDE2000 is a database engine from Microsoft Corporation and is required for using ContigManager. Please refer to Section 1.3, "Installing ContigManager", for more information.

*Once [DNASIS MAX V2.5] is installed, the [MSDE2000] [Install] button is activated.

*If a version prior to MSDE2000 SP3 is already installed, the message below will be displayed.

Question				×
?	MSDE 2000 Servio	ce Pack 3 is not	installed. Install MSDI	2000 Service Pack 3?
	[Yes	No	

If you choose [No] and cancel the installation, ContigManager will not be installable.

*If MSDE2000 SP3 is already installed, the [Install] button will not be activated. Please skip this section and move forward to Section 1.3, "Installing ContigManager".

Click the [Install] button for [MSDE2000 for DNASIS Installer] and install MSDE2000. The installation will take more than five minutes. A message asking you to wait until the installation is complete will be displayed.

Click the [OK] button to start the installation.

Setup	×
	This process may take a very long time (more than five minutes) even though the progress bar is completed. Please WAIT until the installing is finished.
	ОК

Once the MSDE2000 installation is complete, you will need to restart your PC. If you do not reboot after the MSDE2000 installation. ContigManager will not install correctly.

After restarting, double-click [Setup.exe] from the DNASIS[®] MAX installation CD. Now, refer to the section below to install ContigManager.

1.3 Installing ContigManager

*Note: Administrative privileges are required for this installation.

*After installing MSDE2000, the [Install] button for [ContigManager for DNASIS Installer] will be activated.

Click the [Install] button for [ContigManager for DNASIS Installer] to install ContigManager. A dialog will be displayed, announcing the completion of the installation, so click the [Finish] button to exit and close the installer.

Now, refer to the section below to install SampleDB.

1.4 Installing SampleDB

*To conduct the tutorial included in the DNASIS MAX User's Manual, installing SampleDB is required. Be sure to first install ContigManager, then install SampleDB.

1.4.1 What is SampleDB?

SampleDB refers to the sample database for use with DNASIS[®] MAX. It is comprised of SequenceDB and BlastDB.

SequenceDB stores DNA and Amino Acid sequences; you can use Sequence DB Manager to display and edit sequences. It is also used for Smith-Waterman searches.

The BlastDB is a database reserved for Blast searches, and is used for local Blast searches in DNASIS[®] MAX.

1.4.2 Installation

Insert the SampleDB Installation CD into the CD drive. The installer screen will launch automatically.

Note: If the screen does not launch automatically, double-click the 'My Computer' icon.



Double-click the Compact Disc icon to open the drive.

🖳 My Computer	
File Edit View Favorites Tools	Help
🖛 Back 🔻 🔿 👻 🔂 🔞 Search 🖓	Folders 🧭 階 🧏 🗙 🖄 🔠 🕶
Address 🖳 My Computer	
My Computer	3½ Floppy Local Disk (C:) DNASISMAX_D Control Panel B (D:)
Select an item to view its description.	
4 object(s)	🤤 My Computer 🥢

Double-click [Setup.exe] file, and display the installer dialog.



The dialog shown below will be displayed, so click the [Next] button to continue.

InstallShield Wizard		×
	Welcome to the InstallShield Wizard for "sample database for DNASIS MAX"	
5	The InstallShield Wizard will install "sample database for DNASIS MAX" on your computer. To continue, click Next.	
	< Back Next > Cancel	1

Next, specify the installation location for SequenceDB. (The initial default location is to install it in the folder below the HSK_DB folder specified during the installation of DNASIS[®] MAX.) If you choose a location other than the default location, make sure there are no spaces in the path name of your database.

Choose Destination Location Select folder where Setup will install files.			Carlo and
Please select sequence database director will be OVERWRITTEN.	y. If there are same d	atabase in this dir	ectory, they
CAHSK_DBASequenceDB			
			Prouve
			DIOWSE
allShield			

Next, specify the installation location for BlastDB. (The initial default location is to install it in the folder below the HSK_DB folder specified during the installation of DNASIS[®] MAX.) If you choose a location other than the default location, make sure there are no spaces in the path name of your database.

stallShield Wizard	
Choose Destination Location Select folder where Setup will install	l files.
Please select blast database directo be OVERWRITTEN.	ory. If there are same database in this directory, they will
C.\HSK_DB\BlastDB	
	Browse
taliShield	

Next, specify the installation method.

etup Type Choose the seturityre that he	suits your needs	5
		C
Custom Typical	Description	
IShield		

If you choose [Custom], you may select the databases to install. If you choose [Typical], all databases that are registered (Sequence DB has 2, Blast DB has 13) will be installed.

If you choose [Custom], click the [Next] button for the following dialog. Put check marks next to those components you want to install, and then click the [Next] button to start the installation. If you choose [Typical], click the [Next] button to continue; the dialog will not be displayed.

Choose the components Setup will in	nstall.
Select the components you want to install	nstall, and clear the components you do not want to Description Sequence database for blast search.
Space Required on C: Space Available on C:	1065644 K 209924 K

Once installation is complete, a dialog will be displayed, so click the [Finish] button to exit the installer.



1.5 Installing the Phred/Phrap Option

(For those customers with the Phred/Phrap option only) *Note: Administrative privileges are required for this installation.

Please note: Before installing the Phred/Phrap option, launch DNASIS[®] MAX once. If you do not launch DNASIS[®] MAX at least once before installing the Phred/Phrap option, the Phred/Phrap feature may not function correctly.

Insert the Phred/Phrap Option Installation CD into the CD drive to start the installation process.

Note: If the screen does not launch automatically, double-click the 'My Computer' icon, double-click on the Compact Disc icon, double-click [Setup.exe] and start the installation procedure.

[DNASIS Key Code Manager] will launch, so click the [OK] button and close the dialog.

1.6 Setting Key Codes

To use DNASIS[®] MAX and its optional features, a key code is required. Please obtain and set up the key code before using the product.

The key code needs to be set up only once during the initialization procedure. Once set, the key code does not need to be reentered.

1.6.1 Setting Key Codes for DNASIS[®] MAX

(1) Obtaining a Machine ID and the Key Code

Choose [Start]->[Programs]->[DNASIS MAX]->[Key Code Manager] and launch [DNASIS Key Code Manager].

Click the [Unlock....] button.



The [Unlock Product] dialog will be displayed; the [Machine ID] is displayed in the center row.

Product Key :	DNASIS MAX V2.5
Machine ID :	XXXX-XXXX-XXXX
Key Code :	

*Note that the [Machine ID] is unique for each PC.

To obtain a key code, please refer to the Licensing Instructions included in the software packaging.

*Your DNASIS® MAX software includes a unique validation code, and your regional support center will only generate a single key code per validation code. The key code is only valid for a given machine ID. This means, for each copy of DNASIS® MAX you purchase, you can only run that copy of DNASIS® MAX on a single computer. <u>This machine ID will change if you upgrade or reinstall your operating system, and you will require a new key code to unlock the DNASIS®</u>. Should your computer become damaged and you need to reinstall the DNASIS®, you will need to contact your regional support center (See Appendix A) and apply to have the key code for your copy of DNASIS® reissued.

(2) Setting the Key Code

*Note: Administrative privileges are required for setting the key code.

Input the key code sent from your regional support center in the [Key Code] field in the [Unlock Product] dialog, and click the [OK] button. When the lock icon disappears in [DNASIS Key Code Manager] then the key code has been set, and DNASIS[®] MAX may be launched.



*Note: This [Key Code] field is case-sensitive. Be sure to select the correct case for each letter when entering the key code.

1.6.2 Setting Key Codes for the Phred/Phrap Option <u>*Note: Administrative privileges are required for setting the key code.</u>

DNASIS[®] MAX offers support for the Phred/Phrap option. Once Phred/Phrap is installed, you will need to input a key code to access this feature.

Open the [DNASIS Key Code Manager] dialog, as shown in the steps above. Choose the [Phred/Phrap Option] and click the [Unlock...] button.

The [Unlock Product] dialog will be displayed. Make sure that the [Product Key] field is set to [Phred/Phrap Option V2.0].

Product Key :	Phred/Phrap Option V2.0
Machine ID :	XXXX-XXXX-XXXX
Key Code :	

Enter the key code you obtained for the Phred/Phrap option, and click the [OK] button.

When the lock icon to the left of the "Phred/Phrap Option" field disappears in [DNASIS Key Code Manager], the the Phred/Phrap option has been enabled and may be used.

pyright(C) 2003 Hitachi Software Enginee	ring Co. ed.
Product Version	Unlock
DNASIS MAX V2.5	
Phred/Phrap Option V2.0	Lock

Chapter 2 Updating from DNASIS[®] MAX V1.0 to V2.5

2.1 DNASIS[®] MAX V1.0 Backup

2.1.1 Database Backup

The databases installed during the installation of DNASIS[®] MAX V1.0 will be deleted when DNASIS[®] MAX V1.0 is removed.

We recommend that you back up those databases that you have modified and added to. The procedure is as follows:

- 1. Move to the folder where the database is stored.
- 2. If installed according to initial default values, from [My Computer] choose Local Disc(C:) and open the [HSK_DB] folder.
- 3. Copy the database file contained in the file to another folder, and perform backup.

DNASIS[®] MAX Database Storage Folder

[AAMotifDB], [BlastDB], [GenomeDB], [NAMoitfDB],

[MultipleAlignmentProfile], [SequenceDB]

Reconstructing Data

After installing DNASIS[®] MAX V2.5 copy the backup file to the folder with the corresponding database.

2.1.2 Vector Data Backup

To backup Vector data, use the [Vector Database Manager] from DNASIS[®] MAX.

- 1. Launch DNASpace and choose the option [Vector Database Manager] from the [Database] menu.
- 2. The [Vector Database Manager] will launch.
- 3. Choose the vector data to backup, and click the [Export...] button to save it in a separate folder.

Reconstructing Data

After installing DNASIS[®] MAX V2.5 launch [Vector Database Manager] and click the [Import...] button to import the backup file.

2.1.3 Space Backup

(For those customers with the DNASpace option only)

When DNASIS[®] MAX V1.0 is removed, any custom Space that you created will also be removed. We recommend that you back up those Spaces that you have created.

The procedure is as follows:

- 1. Launch DNASpace.
- 2. Choose [File], then [Open Space].
- 3. A list of possible Spaces will be displayed. Choose the Space to backup, and click the [Export...] button.
- 4. The [Save As] dialog will be displayed. Set the location and file name for saving, and click the [Save] button.
- 5. The [Export Space] dialog will be displayed. If the Space includes data, check the box for the [Include Data] option.
- 6. Click the [Export] button and backup the Space.

Reconstructing Data

After installing DNASIS[®] MAX V2.5 display the [Open Space] dialog in DNASpace, and click the [Import...] button to import the exported file.

2.2 Uninstalling DNASIS[®] MAX V1.0

*Note: Administrative privileges are required for this uninstallation.

Exit any programs related to DNASIS MAX (including ContigManager, DNASpace and DNASpace Scheduler).

Choose [Start]->[Settings]->[Control Panel]. From the [Add/Remove Programs] menu, choose [DNASIS] and click the [Change/Remove] button.



The dialog shown below will be displayed. Choose the [Remove] toggle-button and click the [Next] button.

InstallShield W	izard X
Welcome Modify, repai	ir, or remove the program.
Welcome to current instal	the DNASIS Setup Maintenance program. This program lets you modify the lation. Click one of the options below.
C Modify	
B	Select new program components to add or select currently installed components to remove.
C Repair	Reinstall all program components installed by the previous setup.
Remove	Remove all installed components.
Instanonició	< Back Next > Cancel

The dialog shown below will be displayed. Click the [OK] button.

Confirm File Dele	tion		x
Do you want to i	completely remove the	selected application and all	of its components?
	ОК	Cancel	

Click the [Finish] button for [InstallShield Wizard] to finish the uninstallation procedure.

2.3 Installing DNASIS[®] MAX V2.5

*Note: Administrative privileges are required for this installation.

Insert the DNASIS[®] MAX installer CD into the CD drive. The installation screen will launch automatically.

Note: If the screen does not launch automatically, double-click the 'My Computer' icon.



Double-click the Compact Disc icon to open the drive.



Double-click [Setup.exe] file, and display the installer dialog.



The installer dialog shown below will be displayed.

🖑 DNASIS Installer	×
DNASIS MAX V2.5	
Install	
MSDE2000 for DNASIS Installer	
(Install DNASIS MAX before you run this installation program.)	
Install	
	-
(Install DNASIS and MSDE2000 before you run this installation	
Install	
Close Dial	og

Choose the [Install] button for [DNASIS MAX V2.5] and click it to install $\text{DNASIS}^{\texttt{®}}$ MAX V2.5.

- When the installation is complete, the [DNASIS Key Code Manager] dialog, used for setting up the key code, will be displayed.
- Note that [DNASIS Key Code Manager] may actually be displayed in the background of the installer dialog.
- Note that when DNASIS[®] MAX V2.5 is installed, the [Phred/Phrap Option] will still display the version as [V2.0] but this does not affect product functionality.



Click the [OK] button to close the [DNASIS Key Code Manager] dialog. Refer to the section below to install MSDE2000.

2.4 Installing MSDE2000

*MSDE2000 is a database engine from Microsoft Corporation, and is required for using ContigManager. Please refer to Section 2.5, "Installing ContigManager", for more information.

*Once [DNASIS MAX V2.5] is installed, the [MSDE2000] [Install] button is activated.

*If a version prior to MSDE2000 SP3 is already installed, the message below will be displayed.

Question	Contraction of the local division of the loc		×
?	MSDE 2000 Service Pack 3 is not	installed. Install MSDE 200	0 Service Pack 3?
	Yes	No	

If you choose [No] and cancel the installation, ContigManager will not be installable.

*If MSDE2000 SP3 is already installed, the [Install] button will not be activated. Please skip this section and move forward to Section 2.5, "Installing ContigManager".

Choose the [Install] button for [MSDE2000 for DNASIS Installer] to install MSDE2000.

DNASIS Installer	×
DNASIS MAX V2.5	
Install	
MSDE2000 for DNASIS Installer	
Install	llion program. J
ContigManager for DNASIS Installer (Install DNASIS and MSDE2000 before you run this	s installation
Install	
	Close Dialog

The installation will take more than five minutes. A message asking you to wait until the installation is complete will be displayed. Click the [OK] button to start the installation.

Setup	×
	This process may take a very long time (more than five minutes) even though the progress bar is completed. Please WAIT until the installing is finished.
	ОК

Once the MSDE2000 installation is complete, you will need to restart your PC. If you do not reboot after the MSDE2000 installation. ContigManager will not install correctly.

After restarting, double-click [Setup.exe] from the DNASIS[®] MAX installation CD. Now, refer to the section below to install ContigManager.

2.5 Installing ContigManager

*Note: Administrative privileges are required for this installation.

*Once MSDE2000 is installed, the [Install] button for [ContigManager for DNASIS Installer] will become activated.

Click the [Install] button for [ContigManager for DNASIS Installer] to begin installing ContigManager.

🖑 DNA5IS Installer	×
DNASIS MAX V2.5	-
Install	
MSDE2000 for DNASIS Installer	
(Install DNASIS MAX before you run this installation program.)	
Install	
ContigManager for DNASIS Installer	
Install DNASIS and MSDE2000 before you run this installation	
Install	
Close Dial	og

A dialog will be displayed when the installation is completed. Click the [Finish] button to end the installer.

Refer to the following section to install the SampleDB.

2.6 Installing SampleDB

To conduct the tutorial included in the DNASIS MAX User's Manual, installing SampleDB is required. Be sure to first install ContigManager, then install SampleDB.

2.6.1 What is SampleDB?

SampleDB refers to the sample database for use with DNASIS[®] MAX. It is comprised of SequenceDB and BlastDB.

SequenceDB stores DNA and Amino Acid sequences; you can use Sequence DB Manager to display and edit sequences. It is also used for Smith-Waterman searches.

The Blast DB is a database reserved for Blast searches, and is used for local Blast searches

in DNASIS® MAX.

2.6.2 Installation

Insert the SampleDB installer CD into the CD drive. The install screen will launch automatically.

Note: If the screen does not launch automatically, double-click the 'My Computer' icon.



Double-click the Compact Disc icon to open the drive.



Double-click [Setup.exe] file, and display the installer dialog.



The dialog shown below will be displayed, so click the [Next] button to continue.



Next, specify the installation location for SequenceDB. (The initial default location is to install it in the folder below the HSK_DB folder specified during the installation of DNASIS[®] MAX.) If you choose a location other than the default location, make sure there are no spaces in the path name of your database.

hoose Destination Location			
Sciect folder where Sciep withinstainlies.			Ċ
Please select sequence database directory. will be OVERWRITTEN.	If there are same	e database in th	is directory, they
C:\HSK_DB\SequenceDB			
			Browse
101 - 11			

Next, specify the installation location for BlastDB. (The initial default location is to install it in the folder below the HSK_DB folder specified during the installation of DNASIS[®] MAX.) If you choose a location other than the default location, make sure there are no spaces in the path name of your database.

hoose Destination Locatio	n
Select folder where Setup will i	install files.
Please select blast database d be OVERWRITTEN.	directory. If there are same database in this directory, they will
C:\HSK_DB\BlastDB	
	Browse
	Browse
	browse
lishield	Browse

Next, specify the installation method.

Descrip	otion	
	_	

If you choose [Custom], you may select the databases to install. If you choose [Typical], all databases that are registered (Sequence DB has 2, Blast DB has 13) will be installed. If you choose [Custom], click the [Next] button for the following dialog. Put check marks next

to those components you want to install, and then click the [Next] button to start the installation. If you choose [Typical], click the [Next] button to continue; the dialog will not be displayed.

lect Components	
hoose the components Setup will install.	
Select the components you want to install, anstall.	and clear the components you do not want to
- y UniGene_At - y UniGene_Cel - y UniGene_Cre - y UniGene_Dm - y UniGene 0s	
pace Required on C: pace Available on C: shield	1065644 K 209924 K

Once installation is complete, a dialog will be displayed, so click the [Finish] button to exit the installer.

InstallShield Wizard	
	InstallShield Wizard Complete Setup has finished installing "sample database for DNASIS MAX" on your computer.
	K Back Finish Cancel

2.7 Installing the Phred/Phrap Option

(For those customers with the Phred/Phrap option only)

Please note: Before installing the Phred/Phrap option, launch DNASIS[®] MAX once. If you do not launch DNASIS[®] MAX at least once before installing the Phred/Phrap option, the Phred/Phrap feature may not function correctly.

Insert the Phred/Phrap Option Installation CD into the CD drive to start the installation process.

Note: If the screen does not launch automatically, double-click the 'My Computer' icon, double-click on the Compact Disc icon, double-click [Setup.exe] and start the installation procedure.

[DNASIS Key Code Manager] will launch, so click the [OK] button and close the dialog.

2.8 Setting Key Codes

To use DNASIS[®] MAX and its optional features, a key code is required. Please obtain and set up the key code before using the product.

The key code needs to be set up only once, during the initialization procedure. Once set, the key code does not need to be reentered.

2.8.1 Setting Key Codes for DNASIS[®] MAX

*Note: Administrative privileges are required for this installation.

(1) Obtaining a machine ID and the Key Code

Choose [Start]->[Programs]->[DNASIS MAX]->[Key Code Manager] and launch [DNASIS Key Code Manager].

Click the [Unlock....] button.



The [Unlock Product] dialog will be displayed; the [Machine ID] is displayed in the center row.

HOCK I TOUGE	
Product Key :	DNASIS MAX V2.5
Machine ID :	XXXX-XXXX-XXXX
Key Code :	
	OK Cancel

*Note that the [Machine ID] is unique for each PC.

To obtain a key code, please refer to the Licensing Instructions included in the software packaging.

*Your DNASIS® MAX software includes a unique validation code, and your regional support center will only generate a single key code per validation code. The key code is only valid for a given machine ID. This means, for each copy of DNASIS® MAX you purchase, you can only run that copy of DNASIS® MAX on a single computer. This machine ID will change if you upgrade or reinstall your operating system, and you will require a new key code to unlock the DNASIS®. Should your computer become damaged and you need to reinstall the DNASIS®, you will need to contact your regional support center (See Appendix A) and apply to have the key code for your copy of DNASIS® reissued.

(2) Setting the Key Code

Input the key code sent from your regional support center in the [Key Code] field in the [Unlock Product] dialog, and click the [OK] button. When the lock icon disappears in [DNASIS Key Code Manager] then the key code has been set and DNASIS[®] MAX may be launched.



*Note: This [Key Code] field is case-sensitive. Be sure to select the correct case for each letter when entering the key code.

2.8.2 Setting Key Codes for the Phred/Phrap Option *Note: Administrative privileges are required for this installation.

DNASIS[®] MAX offers support for the Phred/Phrap option. Once DNASIS[®] MAX is installed, you will need to input a key code to access this feature.

Display the [DNASIS Key Code Manager] dialog, as in the steps outlined above. Choose the [Phred/Phrap Option] and click the [Unlock...] button.

Product Key :	Phred/Phrap Option V2.0
Machine ID :	XXXX-XXXX-XXXX
Key Code :	

The [Unlock Product] dialog will be displayed. Make sure that the [Product Key] field is set to [Phred/Phrap Option V2.0].

Enter the key code you obtained for the Phred/Phrap option, and click the [OK] button.

If the lock icon to the left of the "Phred/Phrap Option" field disappears in [DNASIS Key Code Manager], then the Phred/Phrap option has been enabled and may be used.

pyright(C) 2003 Hitachi Software Engine	ering Co., ed.
Product Version	Unlock
DNASIS MAX V2.5	
Phred/Phrap Option V2.0	Lock

Chapter 3 Upgrading from DNASIS® MAX V2.0 to V2.5

3.1 Installing DNASIS[®] MAX V2.5

*Note: Administrative privileges are required for this installation.

Exit any programs related to DNASIS MAX (including ContigManager, DNASpace and DNASpace Scheduler).

Insert the DNASIS[®] MAX Installer CD into the CD drive. The installation screen will launch automatically.

Note: If the screen does not launch automatically, double-click the 'My Computer' icon.



Double-click the Compact Disc icon to open the drive.



Double-click [Setup.exe] file, and display the installer dialog.



The installer dialog shown below will be displayed.

🐉 DNASI5 Installer	×
DNASIS MAX V2.5 Update	
Install	
MSDE2000 for DNASIS Installer	
(Install DNASIS MAX before you run this installation pro	gram.)
Install	
ContigManager for DNASIS Installer	
(Install DNASIS and MSDE2000 before you run this installa	ation
Install	
	Close Dialog

Select the [Install] button for [DNASIS MAX Update V2.5] to begin the installation procedure for DNASIS[®] MAX V2.5.

Refer to the section below to install MSDE2000.

3.2 Installing MSDE2000

- *MSDE2000 is a database engine from Microsoft Corporation, and is required for using ContigManager. Please refer to Section 3.3, "Installing ContigManager", for more information.
- *Once [DNASIS MAX V2.5] is installed, the [MSDE2000] [Install] button is activated.
- *If a version prior to MSDE2000 SP3 is already installed, the message below will be displayed.

Question	Contract of the local division of the local		×
?	MSDE 2000 Service Pack 3 is not	installed. Install MSDE 200	10 Service Pack 3?
	Yes	No	

If you choose [No] and cancel the installation, ContigManager will not be installable.

*If MSDE2000 SP3 is already installed, the [Install] button will not be activated. Please skip this section and move forward to Section 3.3, "Installing ContigManager".

Click the [Install] button for [MSDE2000 for DNASIS Installer] to install MSDE2000.

The installation will take more than five minutes. A message asking you to wait until the installation is complete will be displayed.

Click the [OK] button to start the installation.



Once the MSDE2000 installation is complete, you will need to restart your PC. If you do not reboot after the MSDE2000 installation. ContigManager will not install correctly.

After restarting, double-click [Setup.exe] from the DNASIS[®] MAX installation CD. Now, refer to the section below to install ContigManager.

3.3 Installing ContigManager

*Note: Administrative privileges are required for this installation.

*Once MSDE2000 is installed, the [Install] button for [ContigManager for DNASIS Installer] will become activated.

Click the [Install] button for [ContigManager for DNASIS Installer] to begin installing ContigManager.

A dialog will be displayed, announcing the completion of the installation, so click the [Finish] button to exit and close the installer.

Now, refer to the section below to install SampleDB.

3.4 Installing SampleDB

*To conduct the tutorial included in the DNASIS MAX User's Manual, installing SampleDB is required. Be sure to first install ContigManager, then install SampleDB.

3.4.1 What is SampleDB?

SampleDB refers to the sample database for use with DNASIS[®] MAX. It is comprised of SequenceDB and BlastDB.

SequenceDB stores DNA and Amino Acid sequences; you can use Sequence DB Manager to display and edit sequences. It is also used for Smith-Waterman searches.

The Blast DB is a database reserved for Blast searches, and is used for local Blast searches in DNASIS[®] MAX.

3.4.2 Installation

Insert the SampleDB Installation CD into the CD drive. The installer screen will launch automatically.

Note: If the screen does not launch automatically, double-click the 'My Computer' icon.



Double-click the Compact Disc icon to open the drive.

🖳 My Computer	
File Edit View Favorites Tools Help	
$\leftarrow Back \ * \ \Rightarrow \ * \ \boxdot \ \bigotimes \ \boxtimes \ Search \ \ Carchineq \ Folders \ \ Corr \ \ \ Corr \ \ \ Corr \ \ \ Corr \ \ \ Corr \ \ Corr \ \ Corr \ \ Corr \ \ $	
Address 🖳 My Computer	. 🖓 😡
My Computer	SMAX_D Control Panel (D:)
Select an item to view its description.	
4 object(s)	🖳 My Computer 🛛 🎢

Double-click [Setup.exe] file, and display the installer dialog.



The dialog below will be displayed. Click the [Next] button.



Next, specify the installation location for SequenceDB. (The initial default location is to install it in the folder below the HSK_DB folder specified during the installation of DNASIS[®] MAX.) If you choose a location other than the default location, make sure there are no spaces in the path name of your database.

hoose Destination Location			
			Ċ
Please select sequence database directory will be OVERWRITTEN.	y. If there are sam	ie database in th	is directory, they
C:\HSK_DB\SequenceDB			
			Browse
liShield			

Next, specify the installation location for BlastDB. (The initial default location is to install it in the folder below the HSK_DB folder specified during the installation of DNASIS[®] MAX.) If you choose a location other than the default location, make sure there are no spaces in the path name of your database.

hoose Destination Location			
Select folder where Setup will install files.			J.
Please select blast database directory. If the be OVERWRITTEN.	re are same datal	oase in this dir	ectory, they will
C:\HSK_DB\BlastDB			
			Browse
illShield			

Next, specify the installation method.

etup Type Choose the seturityre that he	suits your needs	5
		C
Custom Typical	Description	
IShield		

If you choose [Custom], you may select the databases to install. If you choose [Typical], all databases that are registered (Sequence DB has 2, Blast DB has 13) will be installed.

If you choose [Custom], click the [Next] button for the following dialog. Put check marks next to those components you want to install, and then click the [Next] button to start the installation. If you choose [Typical], click the [Next] button to continue; the dialog will not be displayed.

hoose the components Setup will in	nstall.
Select the components you want to i nstall.	nstall, and clear the components you do not want to Description Sequence database for blast search.
Space Required on C: Space Available on C: ISbield	1065644 К 209924 К

Once installation is complete, a dialog will be displayed, so click the [Finish] button to exit the installer.



3.5 Installing the Phred/Phrap Option

(For those customers with the Phred/Phrap option only) *Note: Administrative privileges are required for this installation.

Please note: Before installing the Phred/Phrap option, launch DNASIS[®] MAX once. If you do not launch DNASIS[®] MAX at least once before installing the Phred/Phrap option, the Phred/Phrap feature may not be operational.

Insert the Phred/Phrap Option Installation CD into the CD drive to start the installation process.

Note: If the screen does not launch automatically, double-click the 'My Computer' icon, double-click on the Compact Disc icon, double-click [Setup.exe] and start the installation procedure.

[DNASIS Key Code Manager] will launch, so click the [OK] button and close the dialog.

3.6 Setting Key Codes

To use DNASIS[®] MAX and its optional features, a key code is required. Please obtain and set up the key code before using the product.

The key code needs to be set up only once, during the initialization procedure. Once set, the key code does not need to be reentered.

3.6.1 Setting Key Codes for DNASIS[®] MAX

(1) Obtaining a Machine ID and the Key Code

Choose [Start]->[Programs]->[DNASIS MAX]->[Key Code Manager] and launch [DNASIS Key Code Manager].

Click the [Unlock....] button.



The [Unlock Product] dialog will be displayed; the [Machine ID] is displayed in the center row.

Product Key :	DNASIS MAX V2.5		
Machine ID :	xxxx-xxxx-xxxxx		
Key Code :	ſ		
	OK Cancel		

*Note that the [Machine ID] is unique per each PC.

To obtain a key code, please refer to the Licensing Instructions included in the software packaging.

*Your DNASIS® MAX software includes a unique validation code, and your regional support center will only generate a single key code per validation code. The key code is only valid for a given machine ID. This means, for each copy of DNASIS® MAX you purchase, you can only run that copy of DNASIS® MAX on a single computer. <u>This machine ID will change if you upgrade or reinstall your operating system, and you will require a new key code to unlock the DNASIS®</u>. Should your computer become damaged and you need to reinstall the DNASIS®, you will need to contact your regional support center (See Appendix A) and apply to have the key code for your copy of DNASIS® reissued.

(2) Setting the Key Code

*Note: Administrative privileges are required for setting the key code.

Input the key code sent from your regional support center in the [Key Code] field in the [Unlock Product] dialog, and click the [OK] button. When the lock icon disappears in [DNASIS Key Code Manager] then the key code has been set, and DNASIS[®] MAX may be launched.



*Note: This [Key Code] field is case-sensitive. Be sure to select the correct case for each letter when entering the key code.

3.6.2 Setting Key Codes for the Phred/Phrap Option

*Note: Administrative privileges are required for this installation.

DNASIS[®] MAX offers support for the Phred/Phrap option. Once DNASIS[®] MAX is installed, you will need to input a key code to access this feature.

Display the [DNASIS Key Code Manager] dialog, as in the steps outlined above. Choose the [Phred/Phrap Option] and click the [Unlock...] button.

The [Unlock Product] dialog will be displayed. Make sure that the [Product Key] field is set to [Phred/Phrap Option V2.0].

Product Key :	Phred/Phrap Option V2.0
Machine ID :	XXXX-XXXX-XXXX
Key Code :	

Enter the key code you obtained for the Phred/Phrap option, and click the [OK] button.

If the lock icon to the left of the "Phred/Phrap Option" field disappears in [DNASIS Key Code Manager], then the Phred/Phrap option has been enabled and may be used.

pyright(C) 2003 Hitachi Software Engineer	ing Co. Led.
Product Version	Unlock.
DNASIS MAX V2.5	
Phred/Phrap Option V2.0	Lock

Chapter 4 Uninstalling DNASIS[®] MAX

4.1 Uninstalling DNASIS[®] MAX V1.0

4.1.1 DNASIS[®] MAX V1.0 Backup

(1) Database Backup

The databases installed during the installation of DNASIS[®] MAX V1.0 will be deleted when DNASIS[®] MAX V1.0 is removed.

We recommend that you back up those databases that you have modified and added to. The procedure is as follows:

1. Move to the folder where the database is stored.

- 2. If installed according to initial default values, from [My Computer] choose Local Disc(C:) and open the [HSK_DB] folder.
- 3. Copy the database file contained in the file to another folder, and perform backup.

DNASIS [®] MAXDatabase Storage Folder	
[A A MatifDP1 [PlastDP1 [ConomeDP1 [NA MaitfDP1	
[אמויוטנווטם], נסמגנטסן, נספווטוופטסן, נואמויוטנווטסן,	
[MultipleAlignmentProfile] [SequenceDB]	

Reconstructing Data

After installing DNASIS[®] MAX V2.5 copy the backup file to the folder with the corresponding database.

(2) Vector Data Backup

To backup Vector data, use the [Vector Database Manager] from DNASIS[®] MAX.

- 1. Launch DNASpace and choose the option [Vector Database Manager] from the [Database] menu.
- 2. The [Vector Database Manager] will launch.
- 3. Choose the vector data to backup, and click the [Export...] button to save it in a separate folder.

Reconstructing Data

After installing DNASIS[®] MAX V2.5 launch [Vector Database Manager] and click the [Import...] button to import the backup file.

(3) Space Backup

(For those customers with the DNASpace option only)

When DNASIS[®] MAX V1.0 is removed, any custom Space that you created will also be removed. We recommend that you back up those Spaces that you have created.

The procedure is as follows:

- 1. Launch DNASpace.
- 2. Choose [File], then [Open Space].
- 3. A list of possible Spaces will be displayed. Choose the Space to backup, and click the [Export...] button.
- 4. The [Save As] dialog will be displayed. Set the location and file name for saving, and click the [Save] button.
- 5. The [Export Space] dialog will be displayed. If the Space includes data, check the box for the [Include Data] option.
- 6. Click the [Export] button and backup the Space.

Reconstructing Data

After installing DNASIS[®] MAX V2.5 display the [Open Space] dialog in DNASpace, and click the [Import...] button to import the exported file.

4.1.2 Removing DNASIS[®] MAX V1.0

*Note: Administrative privileges are required for this uninstallation.

Exit any programs related to DNASIS MAX (including ContigManager, DNASpace and DNASpace Scheduler).

Choose [Start]->[Settings]->[Control Panel]. From the [Add/Remove Programs] menu, choose [DNASIS] and click the [Change/Remove] button.



The dialog shown below will be displayed. Choose the [Remove] toggle-button and click the [Next] button.

InstallShield Wizard	×
Welcome Modify, repair, or remove the program.	
Welcome to the DNASIS Setup Maintenance program. This program lets you modify th current installation. Click one of the options below.	ie
C Modify	
Select new program components to add or select currently installed components to remove.	
C Repair Reinstall all program components installed by the previous setup.	
Remove Remove all installed components.	
K Back Next >	Cancel

The dialog shown below will be displayed. Click the [OK] button.

Confirm File Deletion			×
Do you want to comp	letely remove the :	elected application and all	of its components?
	ОК	Cancel	

Click the [Finish] button for [InstallShield Wizard] to finish the uninstallation procedure.

4.2 Uninstalling DNASIS[®] MAX V2.0

4.2.1 DNASIS® MAX V2.0

*Note: Administrative privileges are required for this uninstallation.

Exit any programs related to DNASIS MAX (including ContigManager, DNASpace and DNASpace Scheduler).

If you have installed the patches for DNASIS® Max V2.0, ([DNASIS MAX Updates for V2.1.1] and [DNASIS MAX Updates 2.1.1]) you will want to remove those first.

From [Add/Remove Programs], choose [DNASIS MAX Updates for V2.1.1], and click the [Change/Remove] button.

DNASIS MAX Updates for V2.1.1

Change/Remove

From [Add/Remove Programs], choose [DNASIS MAX Updates 2.1.1], and click the [Change/Remove] button.

📅 DNASIS MAX Updates 2.1.1

Change/Remove

From [Add/Remove Programs], choose [DNASIS MAX V2.0], and then click the [Change/Remove] button.



The dialog shown below will be displayed. Choose the [Remove] toggle-button and click the [Next] button.

stallShield W Welcome Modify rena	izard
Welcome to	the DNASIS MAX V2.0 Setup Maintenance program. This program lets you modify
the current i	nstallation. Llick one of the options below.
	Select new program components to add or select currently installed components to remove.
C Repair	Reinstall all program components installed by the previous setup.
• Remove	Remove all installed components.
allomeld	Red Nexts Canad

The dialog below will be displayed, so click the [OK] button.

Confirm File Deletion			×
Do you want to complete	ly remove the s	elected application and all (of its components?
	ОК	Cancel	

Click the [Finish] button for [InstallShield Wizard] to finish the uninstallation procedure.

4.2.2 MSDE2000

From [Add/Remove Programs], choose [Microsoft SQL Server Desktop Engine (DNASIS)] and click the [Remove] button.



The dialog shown below will be displayed. Click the [Yes] button.

Add/Ren	nove Programs	×
?	Are you sure you want to remove Microsoft SQL Server Desktop Engine (DN	ASIS) from your computer?
	Yes No	

4.2.3 ContigManager

From [Add/Remove Programs], choose [DNASIS MAX ContigManager] and click the [Change/Remove] button.

📅 DNASIS MAX ContigManager		
Change/Remove		

Confirm File Deletion			×
Do you want to comple	tely remove the s	elected application and all of	its components?

Click the [Finish] button for [InstallShield Wizard] to finish the uninstallation procedure.

4.2.4 Phred/Phrap Option

(For those customers with the Phred/Phrap option only)

From [Add/Remove Programs], choose [DNASIS MAX Phred/Phrap Option V2.0] and click the [Change/Remove] button.



The dialog shown below will be displayed. Click the [OK] button.

Click the [Finish] button for [InstallShield Wizard] to finish the uninstallation procedure.

4.3 Uninstalling a New Installation of DNASIS[®] MAX V2.5

4.3.1 DNASIS® MAX V2.5

Exit any programs related to DNASIS MAX (including ContigManager, DNASpace and DNASpace Scheduler).

From [Add/Remove Programs], choose [DNASIS MAX V2.5] and click the [Change/Remove] button.



The dialog shown below will be displayed. Choose the [Remove] toggle-button and click the [Next] button.

InstallShield W	/izard
Welcome Modify, repa	air, or remove the program.
Welcome to the current i	the DNASIS MAX V2.5 Setup Maintenance program. This program lets you modify nstallation. Click one of the options below.
C Modify	
B	Select new program components to add or select currently installed components to remove.
C Repair	Reinstall all program components installed by the previous setup.
Remove	e Remove all installed components.
Instano ritora	< Back Next > Cancel

on		×
mpletely remove the s	elected application and all o	f its components?
ОК	Cancel	
	on mpletely remove the s	on mpletely remove the selected application and all o

Click the [Finish] button for [InstallShield Wizard] to finish the uninstallation procedure.

4.3.2 MSDE2000

From [Add/Remove Programs], choose [Microsoft SQL Server Desktop Engine (DNASIS)] and click the [Remove] button.



The dialog below will be displayed. Click the [Yes] button.

Add/Ren	move Programs	×
?	Are you sure you want to remove Microsoft SQL Server Desktop Engine (DNASIS) from your	computer?

4.3.3 ContigManager

From [Add/Remove Programs], choose [DNASIS MAX ContigManager] and click the [Change/Remove] button.

📅 DNASIS MAX ContigManager		
Change/Remove		

Confirm File Deletion			×
Do you want to comp	letely remove the s	elected application and all of	f its components?

Click the [Finish] button for [InstallShield Wizard] to finish the uninstallation procedure.

4.3.4 Phred/Phrap Option

(For those customers with the Phred/Phrap option only)

From [Add/Remove Programs], choose [DNASIS MAX Phred/Phrap Option V2.0] and click the [Change/Remove] button.

DNASIS MAX Phred/	Phrap Option V2.0
Change/Remove	

The dialog shown below will be displayed. Click the [OK] button.

Confirm File Delet	ion		×
Do you want to co	ompletely remove the s	selected application and a	ll of its components?
	ОК	Cancel	

Click the [Finish] button for [InstallShield Wizard] to finish the uninstallation procedure.

4.3.5 SampleDB

From [Add/Remove Programs], choose [sample database for DNASIS MAX] and click the [Change/Remove] button.

🎬 sample database fo	r DNASIS MAX
Change/Remove	1

The dialog shown below will be displayed. Choose the [Remove] toggle-button and click the [Next] button.

tallShield W	izard			
₩elcome				
Modify, repa	ir, or remove the program.			Ċ
Welcome to lets you mod	the sample database for DNASIS N ify the current installation. Click one	IAX Setup Maint of the options b	enance program. elow.	This program
C Modify				
ß	Select new program components components to remove.	to add or select	currently installed	
C Repair				
F	Reinstall all program components	installed by the p	revious setup.	
Remove	and and an and a			
	Remove all installed components.			
allShield			News 1	
		< Back	Next>	Lancel

Confirm File Delet	on		x
Do you want to co	mpletely remove the s	elected application and all of	its components?
	ОК	Cancel	

Click the [Finish] button for [InstallShield Wizard] to finish the uninstallation procedure.

4.4 Uninstalling a DNASIS[®] MAX V2.0 to V2.5 Update

4.4.1 DNASIS[®] MAX V2.5

*Note: Administrative privileges are required for this uninstallation.

Exit any programs related to DNASIS MAX (including ContigManager, DNASpace and DNASpace Scheduler).

From [Add/Remove Programs], choose [DNASIS MAX Updates 2.5] and click the [Change/Remove] button.

DNASIS MAX Updates 2.5	
Change/Remove	

The dialog shown below will be displayed. Click the [OK] button.

Confirm File Deletion			×
Do you want to complete	ly remove the s	elected application	and all of its components?
ſ	ОК	Cancel	

Click the [Finish] button for [InstallShield Wizard] to finish the uninstallation procedure.

4.4.2 DNASIS[®] MAX V2.0

If you have installed the patches for DNASIS® Max V2.0, ([DNASIS MAX Updates for V2.1.1] and [DNASIS MAX Updates 2.1.1]) you will want to remove those first.

From [Add/Remove Programs], choose [DNASIS MAX Updates for V2.1.1], and click the [Change/Remove] button.



Change/Remove

From [Add/Remove Programs], choose [DNASIS MAX Updates 2.1.1], and click the [Change/Remove] button.



From [Add/Remove Programs], choose [DNASIS MAX V2.0] and click the [Change/Remove] button.



The dialog shown below will be displayed. Choose the [Remove] toggle-button and click the [Next] button.

stallShield W	lizard
Welcome	
Modify, repa	ir, or remove the program.
Welcome to the current i	the DNASIS MAX V2.0 Setup Maintenance program. This program lets you modify nstallation. Click one of the options below.
C Modify	
1 1	Select new program components to add or select currently installed components to remove.
C Repair	Reinstall all program components installed by the previous setup.
Remove	Remove all installed components.
Californiald	

on		×
mpletely remove the s	elected application and all o	f its components?
ОК	Cancel	
	on mpletely remove the s	on mpletely remove the selected application and all o

Click the [Finish] button for [InstallShield Wizard] to finish the uninstallation procedure.

4.4.3 MSDE2000

From [Add/Remove Programs], choose [Microsoft SQL Server Desktop Engine (DNASIS)] and click the [Remove] button.



The dialog below will be displayed. Click the [Yes] button.

Add/Ren	move Programs	×
?	Are you sure you want to remove Microsoft SQL Server Desktop Engine (DNASIS) from your	computer?

4.4.4 ContigManager

From [Add/Remove Programs], choose [DNASIS MAX ContigManager] and click the [Change/Remove] button.

📅 DNASIS MAX ContigM	anager
Change/Remove	

Confirm File Deletion			×
Do you want to comp	letely remove the s	elected application and all of	f its components?

Click the [Finish] button for [InstallShield Wizard] to finish the uninstallation procedure.

4.4.5 Phred/Phrap Option

(For those customers with the Phred/Phrap option only)

From [Add/Remove Programs], choose [DNASIS MAX Phred/Phrap Option V2.0] and click the [Change/Remove] button.

DNASIS MAX Phred/Phrap Option V2.0	
Change/Remove	

The dialog shown below will be displayed. Click the [OK] button.

Confirm File Dele	tion		×
Do you want to c	ompletely remove the s	elected application and all o	f its components?
	ОК	Cancel	

Click the [Finish] button for [InstallShield Wizard] to finish the uninstallation procedure.

4.4.6 SampleDB

From [Add/Remove Programs], choose [sample database for DNASIS MAX] and click the [Change/Remove] button.

💏 sample database fo	r DNASIS MAX
Change/Remove	

The dialog shown below will be displayed. Choose the [Remove] toggle-button and click the [Next] button.

(nstallShield W	izard 🛛
Welcome Modify, repa	ir, or remove the program.
Welcome to lets you mod	the sample database for DNASIS MAX Setup Maintenance program. This program if the current installation. Click one of the options below.
C Modify	Select new program components to add or select currently installed components to remove.
C Repair	Reinstall all program components installed by the previous setup.
Remove	Remove all installed components.
nstaliomeid	< Back Next > Cancel

tion		×
completely remove the s	elected application and all o	f its components?
ОК	Cancel	
	completely remove the s	completely remove the selected application and all ol

Click the [Finish] button for [InstallShield Wizard] to finish the uninstallation procedure.

Appendix A: User Support Contact Information

Please use the following information to contact your regional support center with questions on using or purchasing DNASIS[®] MAX.

MiraiBio, Inc.: (The Americas, Asia, and Pacific Regions) 1201 Harbor Bay Parkway Ste. 150 Alameda, CA 94502 U.S.A Web: www.miraibio.com Tel: +1-510-337-2000 Fax: +1-510-337-2099 E-mail: dnasiskey@miraibio.com (For obtaining key codes) gene@miraibio.com (For other information or inquiries). Hitachi Software Engineering Europe AG: (Europe, Middle East, and Africa Regions) Neues Kranzler Eck Kurfürstendamm 22 10719 Berlin Germany Web: www.hitachisoft-bio.com Tel: 49-30-8877-2600 Fax: 49-30-8877-2610 E-mail: dnasis@hitachisoft.de (For obtaining key codes) info-bio@hitachisoft.de (For other information or inquiries).