

# **Affymetrix® Chromosome Analysis Suite 1.2 Installation Instructions**

*(For research use only. Not for use in diagnostic procedures.)*

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## **INTRODUCTION**

To run the Affymetrix CytoScanHD Array, the following software installation is required:

1. The Chromosome Analysis Suite 1.2 software must be installed on one or more analysis workstations. This software takes the CytoScanHD CEL files as input and allows researchers to perform Copy Number, LOH, Genotyping, and other types of genetic analysis.

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## **CHROMOSOME ANALYSIS SUITE 1.2– MINIMUM HARDWARE REQUIREMENTS**

### **Operating system on 32-bit (CYCHP data visualization, only, for CytoScanHD):**

- Windows XP Professional SP3
- Windows 7 Professional SP1

### **Operating system on 64-bit(CYCHP generation and visualization for CytoScanHD):**

- Windows XP Professional SP2
- Windows 7 Professional SP1

### **Minimum Memory requirement:**

- 3 GB RAM (32-bit machine)
- 8 GB RAM (64-bit machine)
- 5 GB free space on C: drive

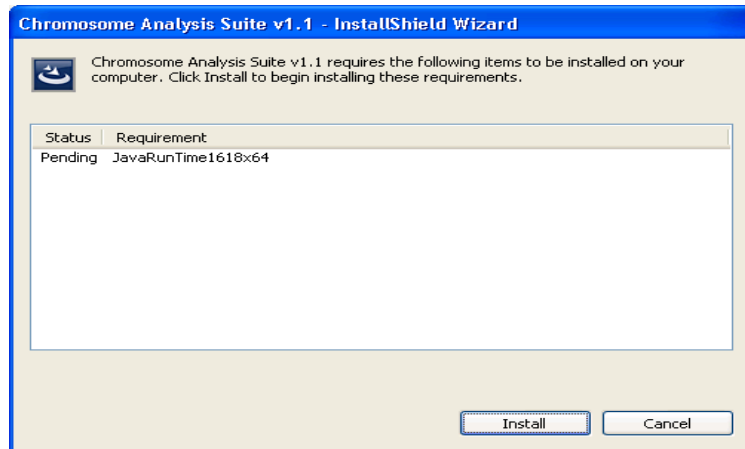
### **Recommended Requirements:**

- 32-bit systems: Quad Core System, 3 GHz with 4 GB RAM
- 64-bit systems: Quad Core System, 3 GHz with 16GB RAM

## NEW INSTALLATION OF CHROMOSOME ANALYSIS SUITE 1.2 ON AN ANALYSIS WORKSTATION

1. To install on a 64-bit system, Double-click on the ChASSetup64.exe in the 64-bit folder. To install on a 32-bit, double-click ChASSetup32.exe in the 32-bit folder. The following InstallShield Wizard appears informing the user that the JavaRunTimeEnvironment needs to be installed.

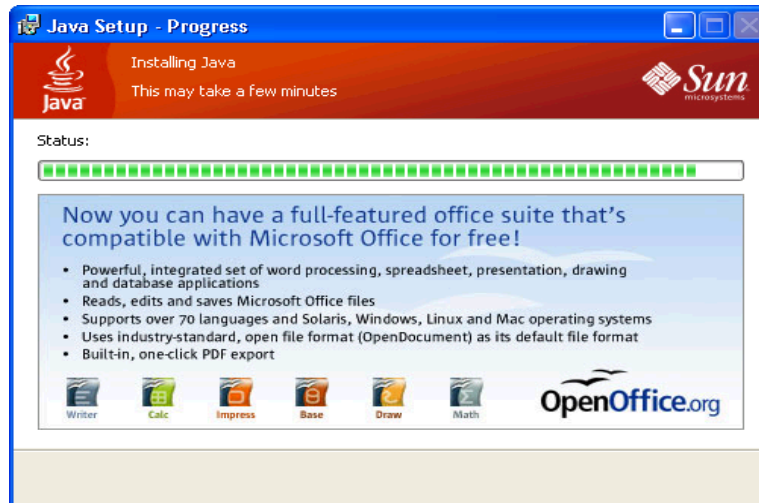
**Note:** This message only appears if this is not already installed on the system.



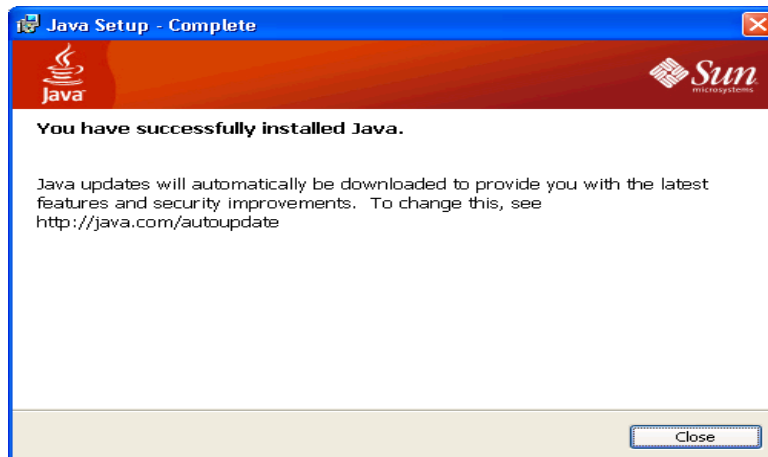
2. After clicking the Install the following welcome screen appears with Cancel and Install options. View the License Agreement and Click either Cancel or Install. If you cancel, installation will not continue.



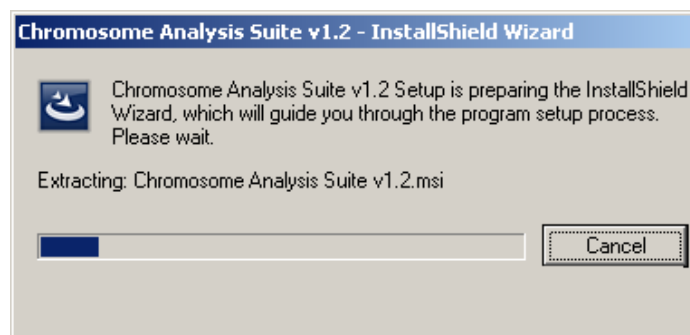
3. After clicking Install, the following progress window appears indicating that Java is installing and it will take few minutes.



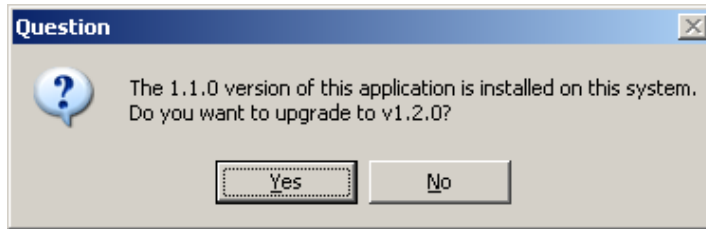
4. After Java is installed the Complete window appears.



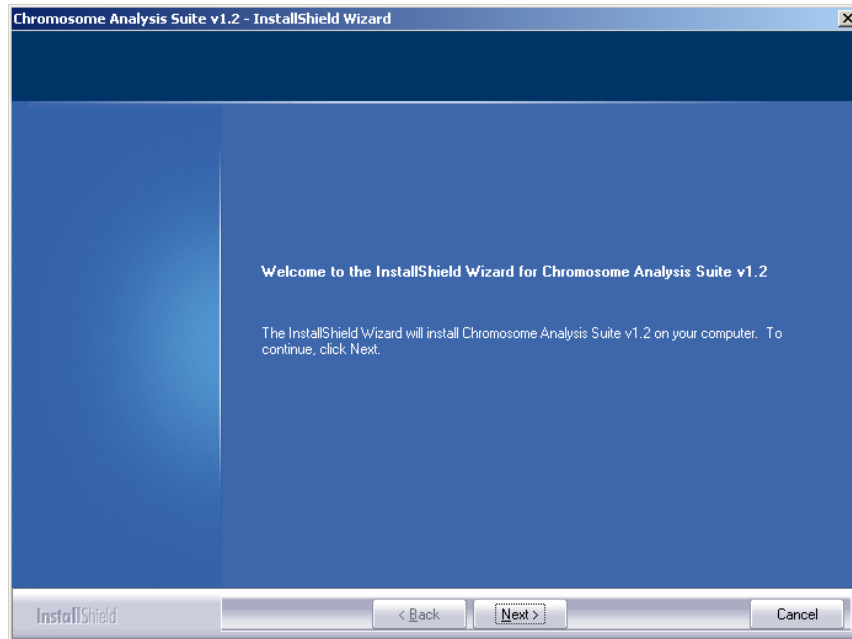
5. Click close then the InstallShield Wizard for Chromosome Analysis Suite will begin.



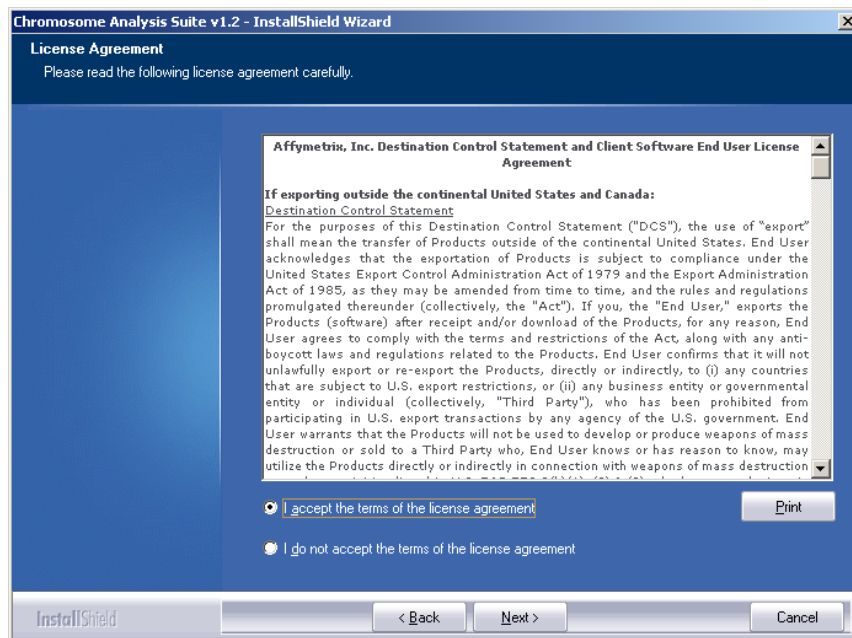
6. Then it will prompt the user if you want to upgrade.



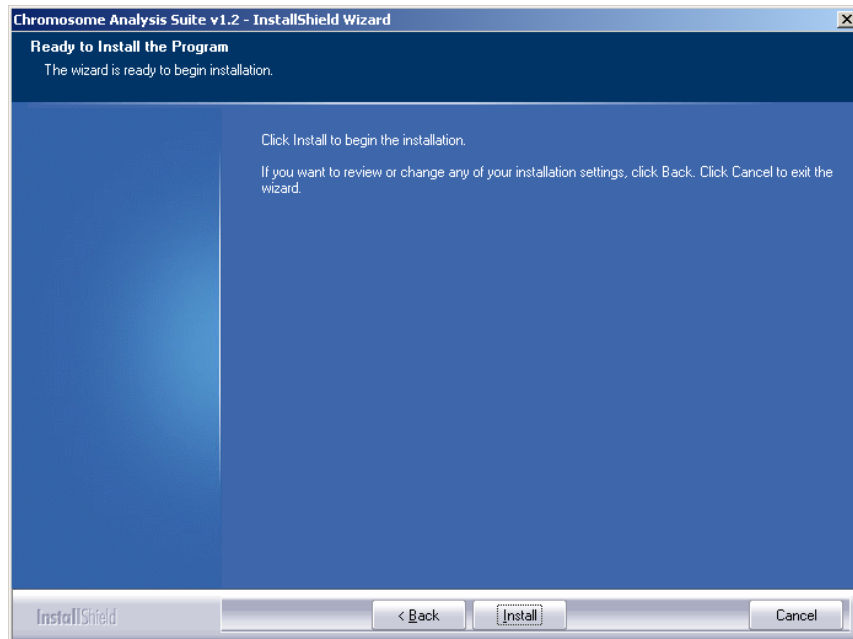
7. Clicking "Yes" will launch the following screen, clicking "No" will exit the install.



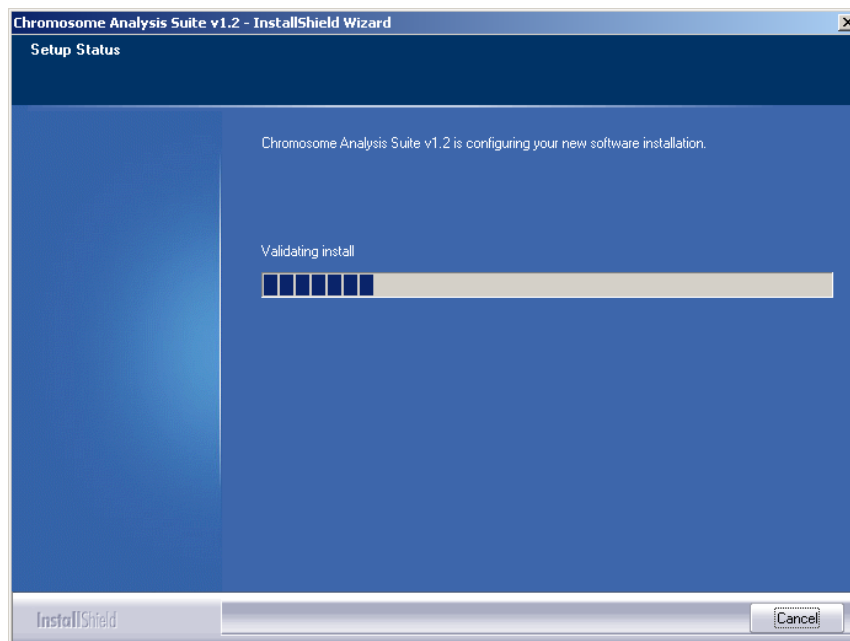
8. Choose Next and the following two pages License Agreement window appears.



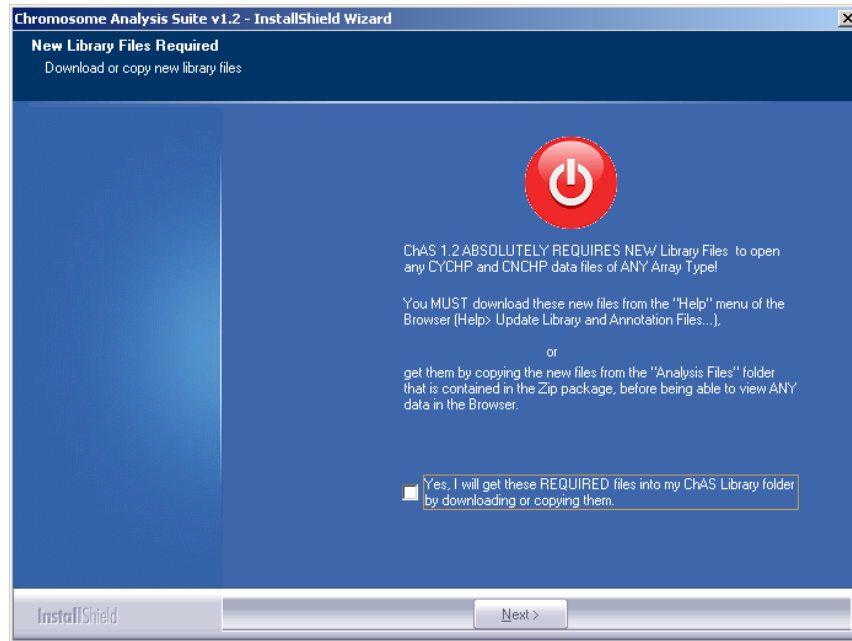
9. Read the License Agreement and choose the “I accept.....” radio button if you agree. Click Next. The following “Ready to Install the program” window appears.



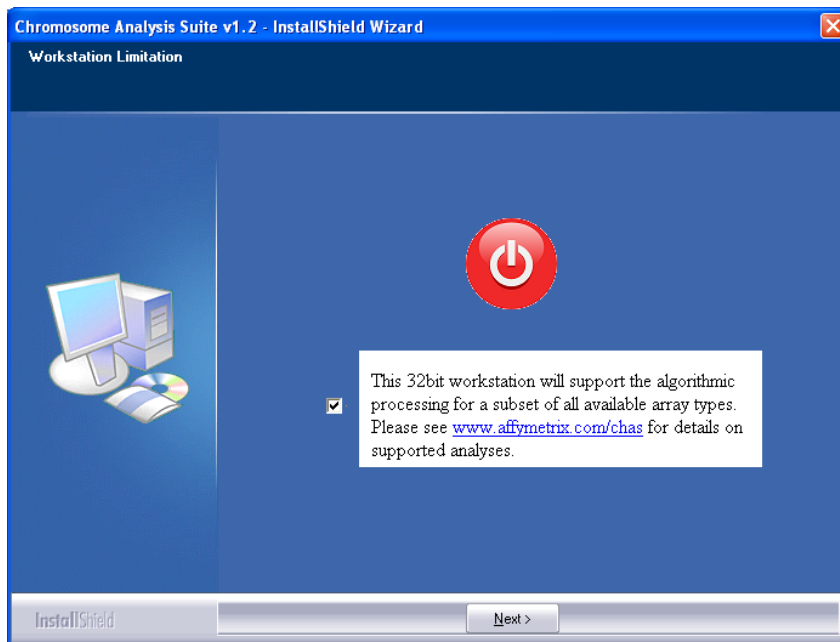
10. Click Install. The install begins.



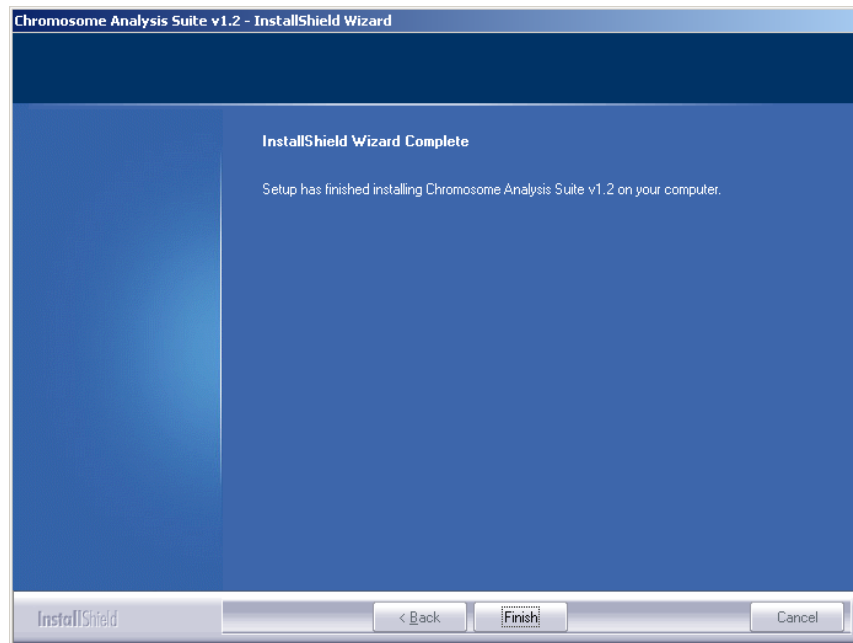
11. After the installation is completed, you will be prompted to download the new required library files, check the check box and click Next.



12. If you are installing on a 32-bit system, the window below will appear stating that some array types are not supported for analysis. Check the box to confirm your understanding and click Next.




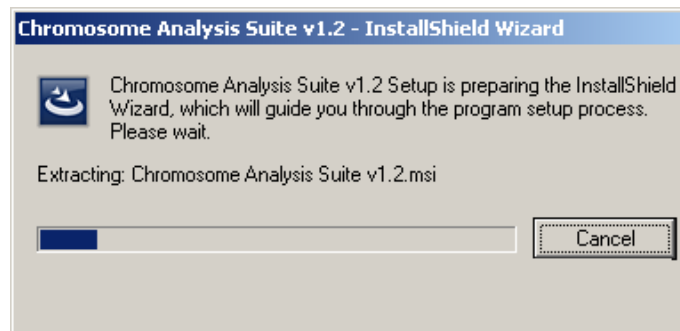
13. After the install is done, click the Finish button. After the installation, you need to download new Analysis files from the NetAffx site, or copy them into your ChAS Library folder. If you are unable to connect to the internet, then go to the section of this document called "Copying Analysis Files", below.



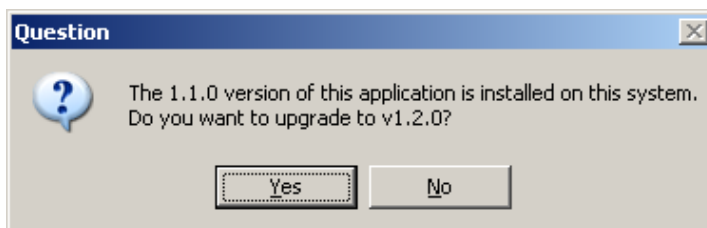


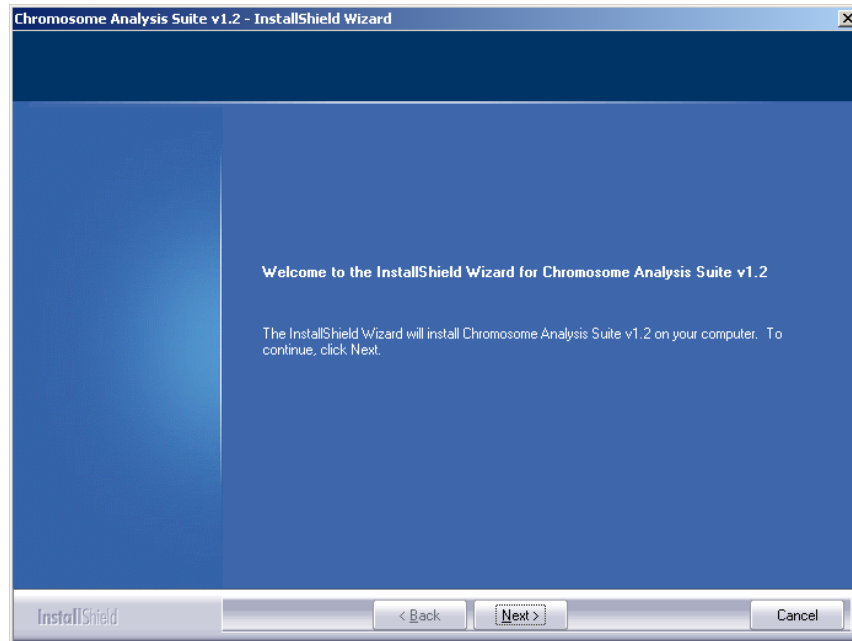
## UPGRADE INSTALLATION OF CHROMOSOME ANALYSIS SUITE 1.2 ON AN ANALYSIS WORKSTATION FROM 1.1:

1. Before you install the software close the Analysis Manager icon  which is located on the bottom right hand side of the task bar.
2. To install on a 64-bit system, Double-click on the ChASSetup64.exe in the 64-bit folder. To install on a 32-bit, double-click ChASSetup32.exe in the 32-bit folder. The following InstallShield Wizard appears.

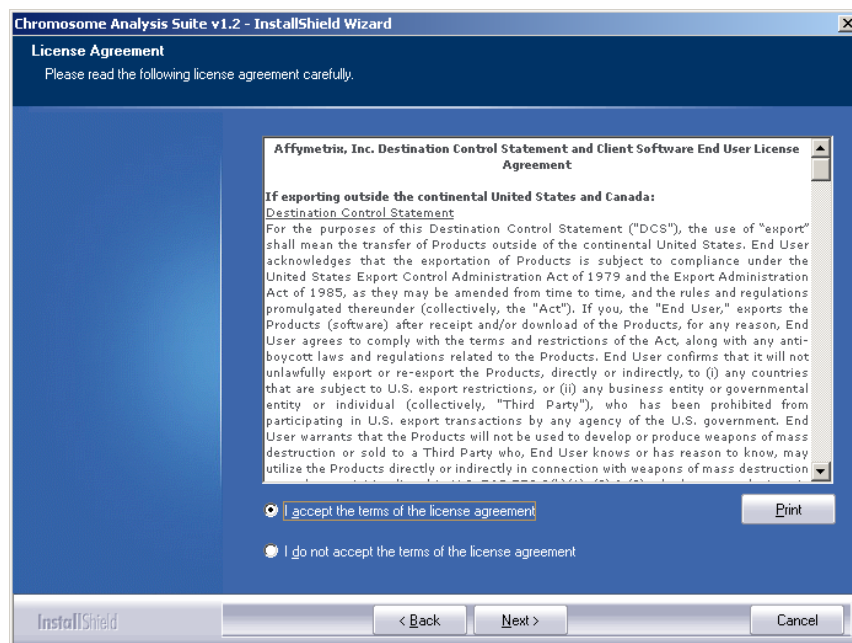


3. It will then ask if you want to upgrade to version 1.2. Clicking yes will begin the installation of Chromosome Analysis Suite 1.2. Clicking No will exit the install. Click Yes.

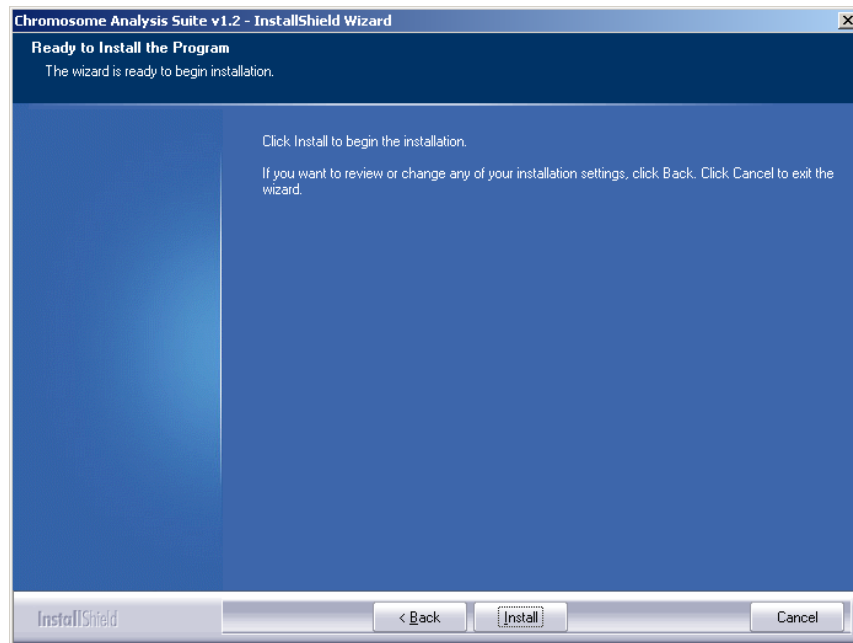




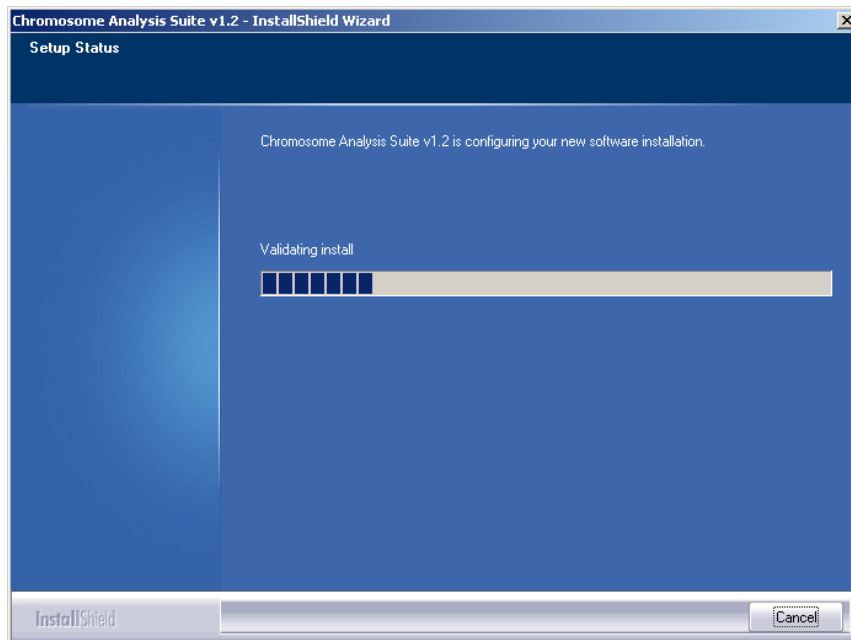
4. Choose Next and the following two pages License Agreement window appears.



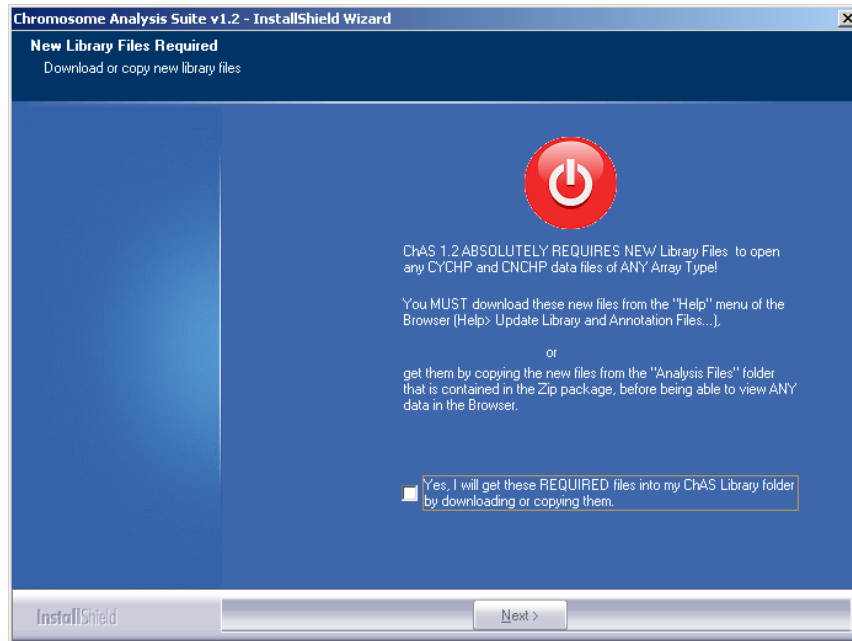
5. Read the License Agreement and choose the "I accept....." radio button if you agree. Click Next. The following "Ready to Install the program" window appears.



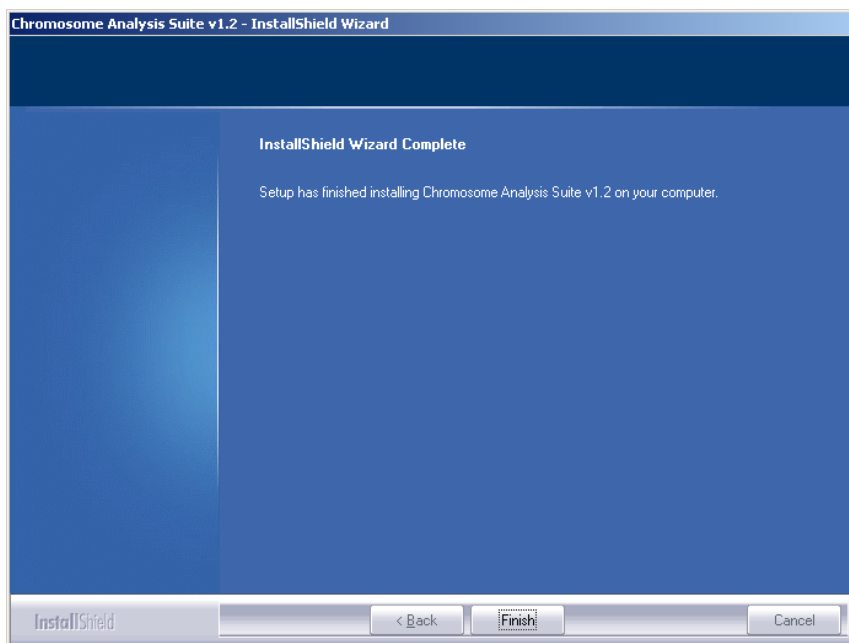
6. Click Install. The install begins.



7. After the installation is completed, the "Download or copy new required library files" window appears, check the check box and click Next.

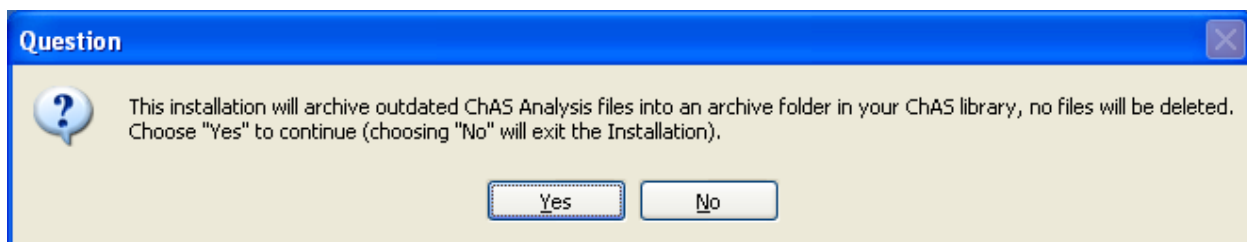


8. After the install is done, click the Finish button.



### UPGRADING FROM ChAS 1.0 OR 1.0.1:

- If you are upgrading from ChAS 1.0 or 1.0.1 you will get this additional screen, saying that the old libraries files will be archived. If you are upgrading from ChAS 1.1 no files need to be archived.



- The following are the files that will be archived from your library folder to the archive folder.

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- ALL "\*.chasparam" files from ChAS Library
  - ALL "\*.chasparam" files from User Profiles
  - Cytogenetics\_Array.\*.annot.db" from ChAS Library
  - ALL "\*.REF\_MODEL" files from ChAS Library
  - All \*.snpref.a5" files (should be just 1) from ChAS Library
  - All "Cytogenetics310\*" files from the ChAS Library
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After the installation, you need to download new Analysis files from the NetAffx site, or copy them into your ChAS Library folder.

## **COPYING ANALYSIS FILES**

- The CytoScanHD Analysis Files.zip package download contains the Analysis Files required to process CytoScanHD Array CEL files into CYCHP files. Also included are the files for GenomeWideSNP\_6 files which are required in ChAS to view GenomeWideSNP\_6 files. If you are unable to connect to the internet to download the Analysis files, copy the contents (19 files) from the CytoScanHD Analysis Files folder to the following location:
- If using Windows XP, copy the contents from the Analysis Files folder to :  
C:\Documents and Settings\All Users\Application Data\Affymetrix\Chromosome Analysis Suite\Library
- If using Windows 7, copy the contents from the Analysis Files folder to:  
C:\ProgramData\Affymetrix\Chromosome Analysis Suite\Library

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## **IF YOU CANNOT SEE THE FOLDER LOCATION ABOVE, GO TO SECTION "VIEW HIDDEN FILES AND FOLDER", BELOW**

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- The list of Analysis Files to copy from the unzipped CytoScanHD Analysis Files package are named:
  1. CytoScanHD\_Array.cdf
  2. CytoScanHD\_Array.chasarrinfo
  3. CytoScanHD\_Array.chasdataprocessconfig
  4. CytoScanHD\_Array.chasqcconfig

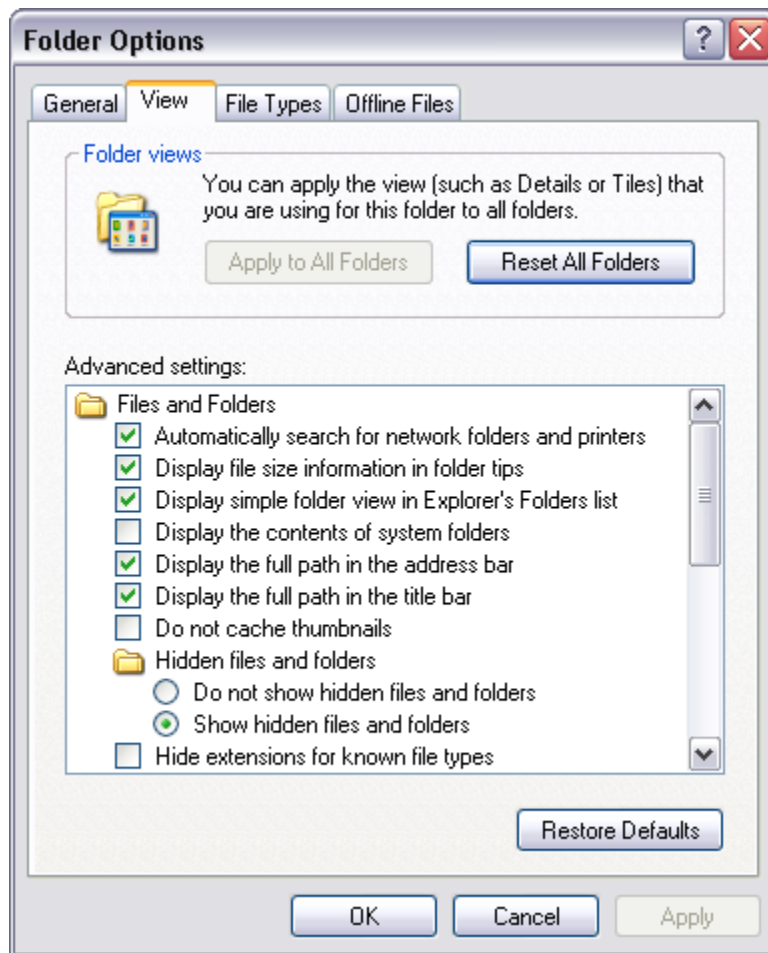
5. CytoScanHD\_Array.chrXprobes
6. CytoScanHD\_Array.chrYprobes
7. CytoScanHD\_Array.hg19.v3.refcovar
8. CytoScanHD\_Array.na32.annot.db
9. CytoScanHD\_Array.na32.v3.REF\_MODEL
10. CytoScanHD\_Array.probe\_tab
11. CytoScanHD\_Array.r1.qca
12. CytoScanHD\_Array.r1.qcc
13. CytoScanHD\_Array.reference\_model.def.NA32.v1.chasparam
14. CytoScanHD\_Array.single\_sample.def.NA32.v1.chasparam
15. CytoScanHD\_Array.snplist.txt
16. GenomeWideSNP\_6.chasarrinfo
17. GenomeWideSNP\_6.chasdataprocessconfig
18. GenomeWideSNP\_6.chasqcconfig
19. NetAffxGenomicAnnotations.Homo\_sapiens.hg19.na32.db

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## VIEW HIDDEN FILES AND FOLDERS:

### To display hidden files and folders in Windows XP:

1. From the Start button, select **Settings > Control Panel**.  
The Control Panel window opens.
2. Double-click **Folder Options** icon in Control Panel. The Folder Options dialog box opens.



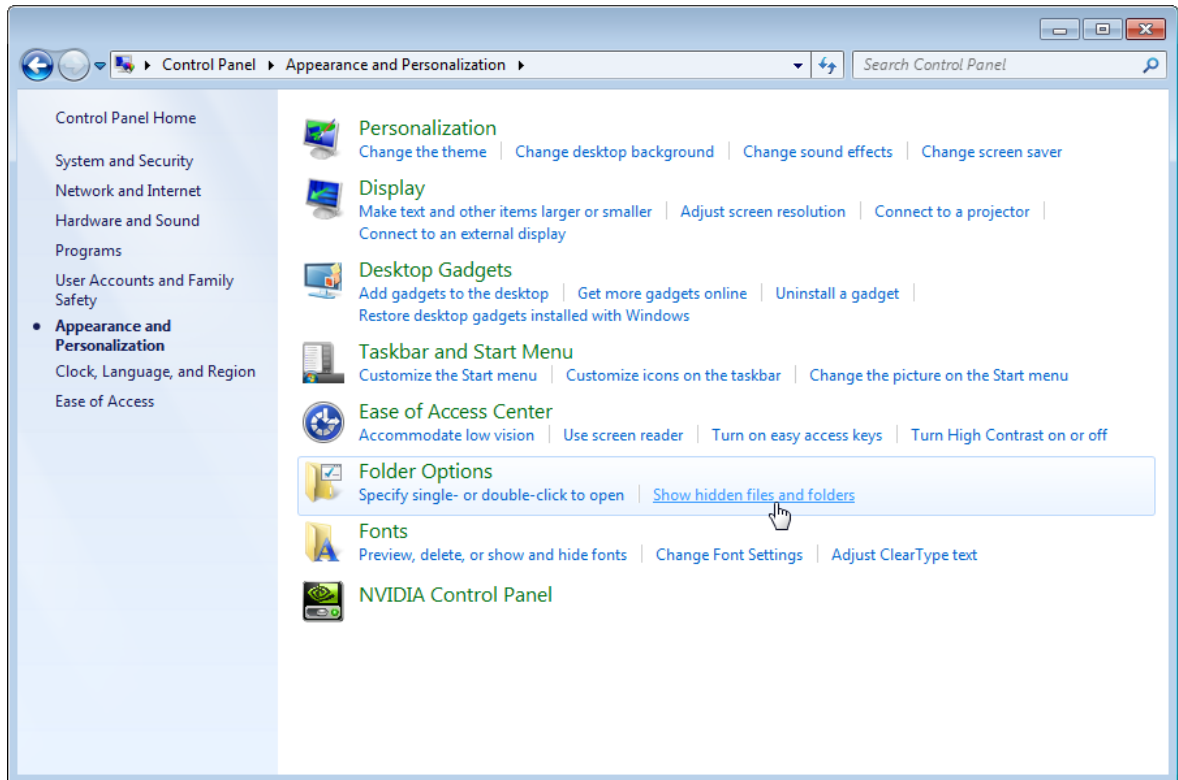
3. On the View tab, under Hidden files and folders, click **Show hidden files and folders**.

Hidden files and folders are dimmed to indicate they are not typical items.

If you know the name of a hidden file or folder, you can search for it.

#### **To display hidden files and folders in Windows 7:**

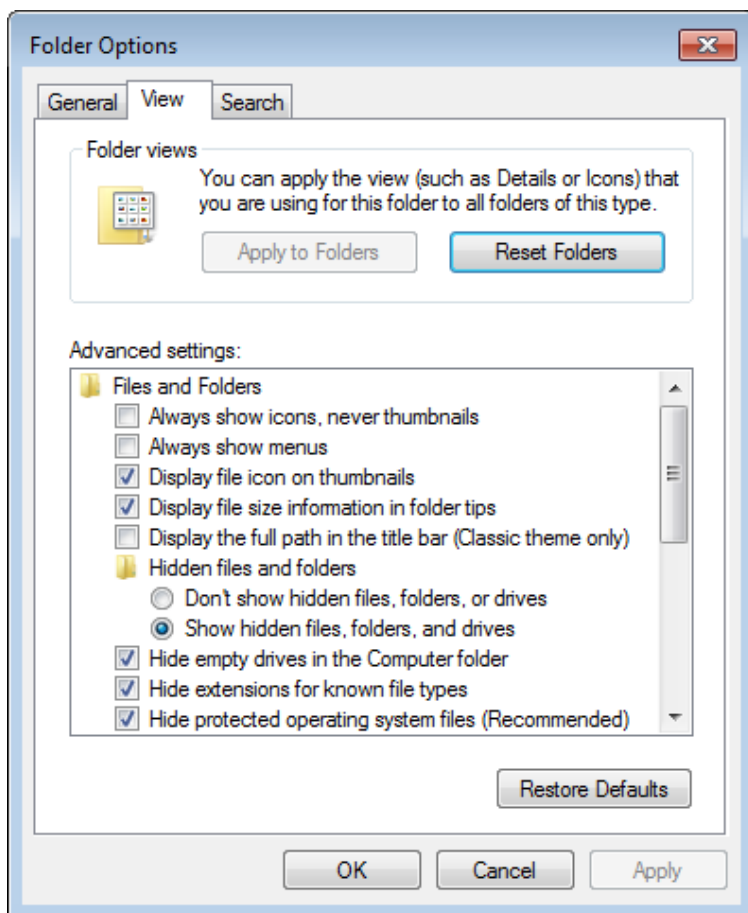
1. In the Start menu, click Control Panel.  
The Control Panel window opens.
2. Click **Appearance and Personalization** in Control Panel. Under Folder Option, click "Show hidden files and folders".



3. In the Folder Options dialog box that appears, click the View tab. Under Hidden files and folders, click **Show hidden files and folders** (Error! Reference source not found.).

Hidden files and folders are dimmed to indicate they are not typical items. If you know the name of a hidden file or folder, you can search for it.





## MANUAL

1. Documentation is located in the Chromosome Analysis Suite 1.2 zip package.

The .pdf file is: Chromosome Analysis Suite 1.2 Manual.pdf

In order to view the .pdf files, Adobe Acrobat Reader is required. This can be downloaded from <http://www.adobe.com>

2. The User Manual is also available as Online Help within the software from the  icon.

## SUPPORT

If you need to contact support, please send email inquiries to: [support@affymetrix.com](mailto:support@affymetrix.com) or call 1-888-DNA-CHIP (1-888-362-2447)