

For Norland IlluminatusDXA Software

435S149 Rev A

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Overview

The Data Import Tool is a software application which aids the customer in transferring patient demographics and (optionally) scan results from other DXA devices for the purposes of patient data entry and results trending.

If scan results are imported, the numerical results for each region are transferred and stored without modification, reanalysis, or conversion. Scan images are not transferred.

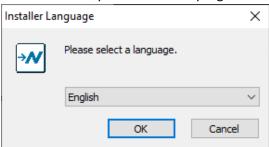
The Data Import Tool is to be used in conjunction with Norland IlluminatusDXA software for applicable Norland DXA scanners. This application is not intended to be used as a stand-alone product or for any other purposes. Other uses are not intended or implied.

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Software Installation

The software installation media includes the Data Import application as well as database runtime libraries. The database runtime libraries only need to be installed once for a system unless an updated version is required. Runtimes for 64-bit and 32-bit systems are included where applicable.

1. Run the Data Import installation program. Select the installation language and click OK.

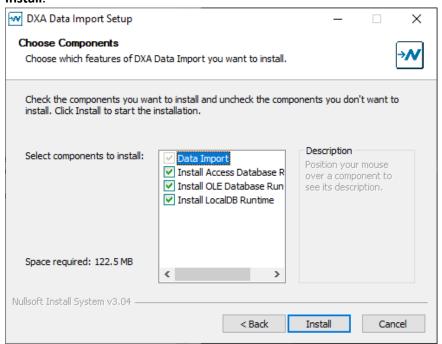


2. At the Welcome screen click Next.

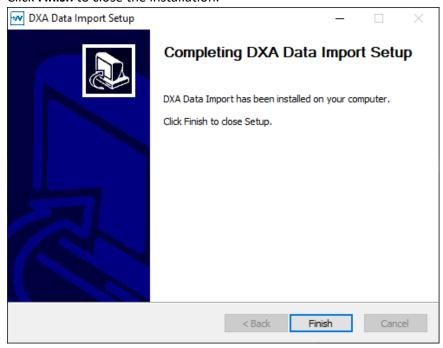


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3. For first-time installations, the database runtime libraries will be installed by default. Click **Install**.



- 4. The application files will be installed, then the selected runtime libraries will each be installed. Follow any applicable prompts to install each library with default settings.
- 5. Click **Finish** to close the installation.



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Importing Patient Data

Preparing IlluminatusDXA Databases

The IlluminatusDXA application must be installed and run at least once before importing data so the appropriate databases and system files are available.

A valid OAC (Option Authorization Code) enabling the Data Import feature for your scanner must be entered in the IlluminatusDXA Scanner Preferences before the Data Import software can be used.

The patient data may be imported into the IlluminatusDXA default database, or into any additional patient database. To import into any other database path, create or add the database in the IlluminatusDXA application first.

Exit the IlluminatusDXA application before running the Data Import application. The patient databases may only be accessed by one application at a time, and the import will not proceed if the IlluminatusDXA software is still connected to the database.

Logging In

Run the Data Import application. The login window will appear.

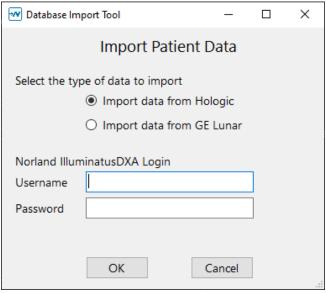


Figure 1 - Login Window

Select to import data from Hologic systems or GE Lunar systems. The import process for both sources is identical.

- Hologic data may be imported from .MDF database files or from an active MS SQL Server.
- GE Lunar data may be imported from .MDB files, .MDF files, or from an active MS SQL Server.

Enter a valid username and password from IlluminatusDXA to log in.

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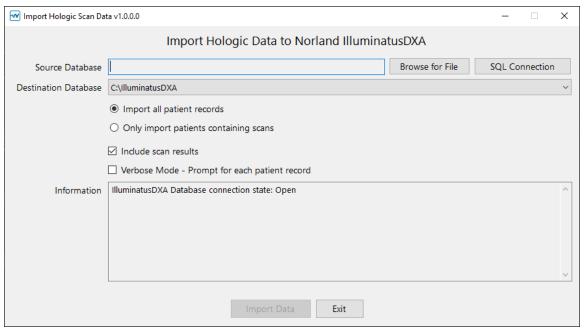


Figure 2 - Import Window

Import Settings

Source Database

For .MDB or .MDF database files, click **Browse for File** to locate the source database file.

To connect to an active SQL Server, click the **SQL Connection** button. Enter the server connection information and credentials. Click **Test Connection** to connect the server and validate the settings. Click **OK** to continue.

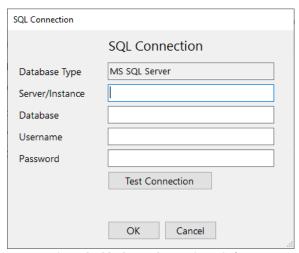


Figure 3 - SQL Server Connection Window

Once a Source Database is set, the database will be connected and summary of the number of patients and scans will be shown.

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Destination Database

Select the desired destination database from the list. The default selection will be the path last used by the IlluminatusDXA program. To import into a database not in the list, add or create the database in the IlluminatusDXA application.

Patient Selection

By default, all patients in the source database will be imported. To import only patients which include scans in the source database, select the applicable option.

By default, the import process will include scan results from the source database. To import only patient demographics details, uncheck the "Include Scan Results" option.

Verbose Mode

If the Verbose Mode option is enabled, the details for every patient will be shown before being imported. The user may select to import the record or skip the record. See the Patient Details Prompt section below for further details.

Import Data

After setting the source and destination databases and selecting all desired options, click **Import Data** to begin the import process. All records will be read from the source database, then imported into the IlluminatusDXA database.

Patient Details Prompt

If the Verbose Mode was enabled, the Patient Details window will appear for each patient prior to importing. The Patient ID, Patient Name, Date of Birth, Sex, and Number of Scans will be shown for each patient.

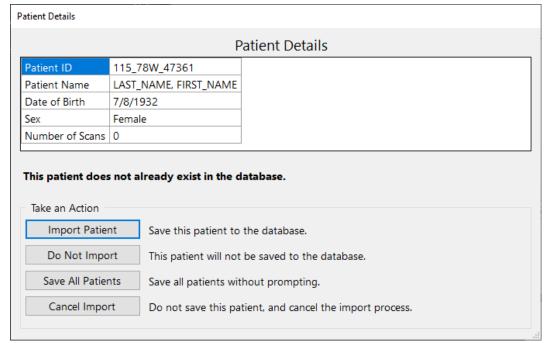


Figure 4 - Patient Details Window

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The user must decide the action to take for each patient.

- Import Patient: Import the current patient into the IlluminatusDXA database.
- **Do Not Import**: Skip this patient, do not import it.
- **Save All Patients**: Disable prompting for each patient. Import this patient record and all remaining records.
- Cancel Import: Cancel the import process. Do not import this patient record.

Patient Record Conflict Prompt

When importing each record, the application will check if the Patient ID matches any existing patients in the IlluminatusDXA destination database. If a patient with the same Patient ID exists, but the Patient Name, Date of Birth, or Sex does not match the import record, the information from both records will be shown.

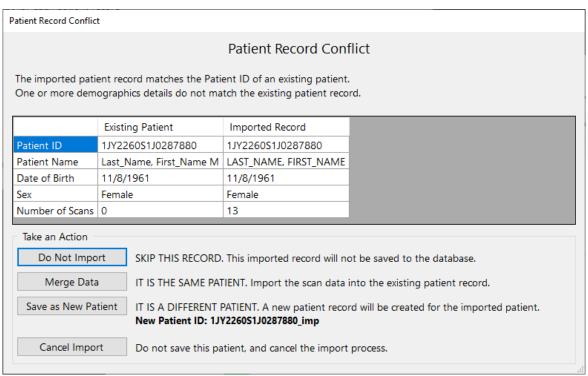


Figure 5 - Patient Record Conflict Window

The user must decide the action to take for this record conflict.

- **Do Not Import**: If the existing patient (in the IlluminatusDXA database) does not appear to be the same as the import record, skip this record and do not change the IlluminatusDXA database.
- Merge Data: If the patient can be confirmed to be the same, save the import data to the existing patient record in the IlluminatusDXA database. The patient demographics will not be modified, only the Hologic or GE Lunar data will be stored in the existing patient record.
- Save As New Patient: If the existing patient is not the same individual as the import record, save the import record with a new unique Patient ID. The proposed Patient ID is shown, which may be modified in the IlluminatusDXA software after the import process is complete.
- Cancel Import: Cancel the import process. Do not import this patient record.

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Final Status

After the import process is completed or cancelled, a summary of the number of imported patients and scans is shown.

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Results Trending

If scan results are imported from the Hologic or GE Lunar database, they will be trended with new scans acquired in the IlluminatusDXA software for each patient. The trending will appear in the reference data or trending graphs and will be included in the Short Term % Change and Long Term % Change calculations.

Native Norland DXA scans are shown in trending graphs with white and black markers. White markers show the current scan result, and black markers show results for any other scans of the same type.

Scan results imported from Hologic or GE Lunar systems for the same scan type will be shown with a violet marker on trending graphs.

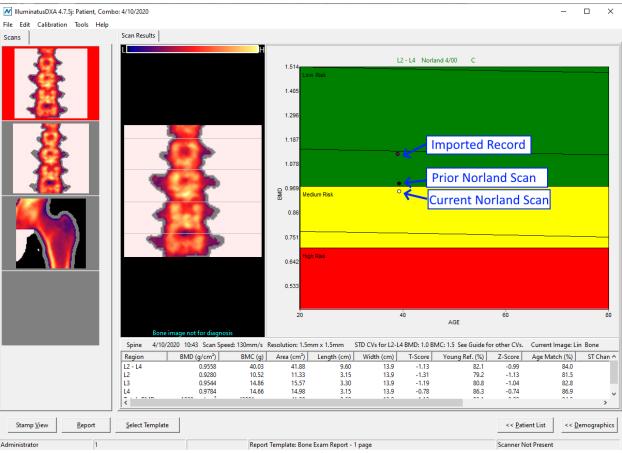


Figure 6 - Reference/Trending Graphs

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Enable/Disable Trending

Trending with imported records is enabled by default on all IlluminatusDXA systems. It may be disabled so the imported records are not calculated in trending results or shown on reference data graphs.

In IlluminatusDXA, select the **Edit** menu then **Scanner Preferences**. Change to the **Analysis** tab.

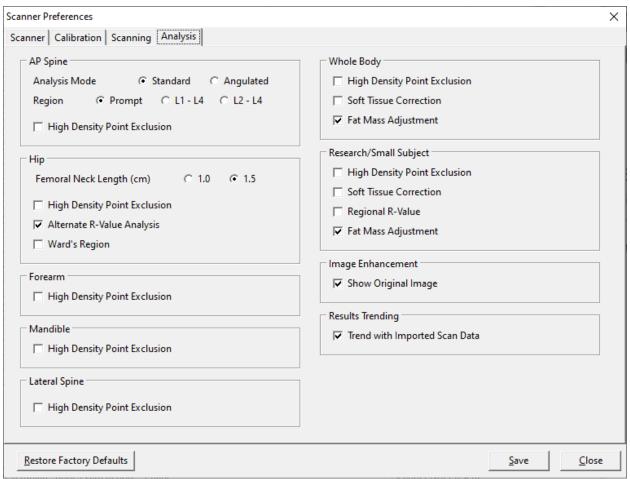


Figure 7 - Scanner Preferences, Analysis tab

In the Results Trending section, uncheck the option for "Trend with Imported Scan Data" to disable trending, or check the option to enable trending. Click **Save** to update your software preferences.

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Viewing and Deleting Imported Records

If a patient record contains imported records, the details may be viewed from the Patient Demographics screen. The message "This patient record contains imported patient information or scan results" will appear in the lower right area of the Demographics window.

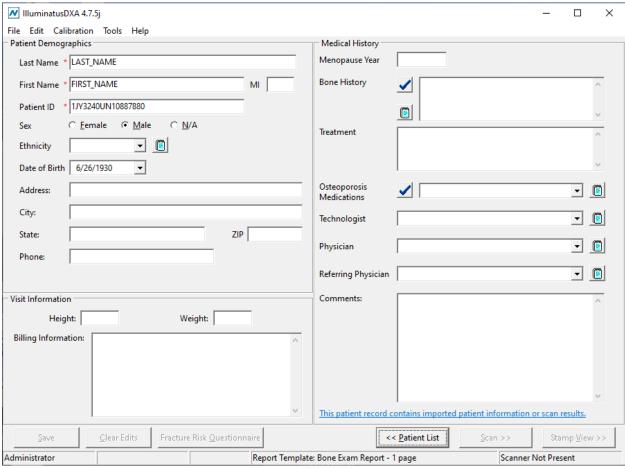


Figure 8 - Demographics with Imported Data

Click the message link to view the details for the selected patient. The date of import will be shown, with the number of each imported scan type stored in the patient record.

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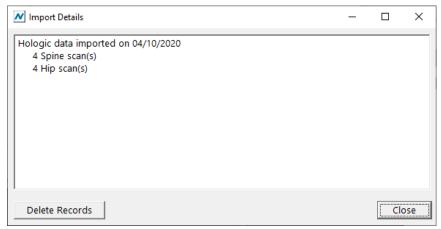


Figure 9 - Import Details

Deleting Imported Records

To delete the imported scan data from the patient record, click the **Delete Records** button. This will remove all Hologic and GE Lunar scan results from the patient record. Any Norland DXA scans and results will not be modified.

A confirmation prompt will appear to verify deletion of the data. Click **OK** to delete the information or click **Cancel** to keep the existing information.

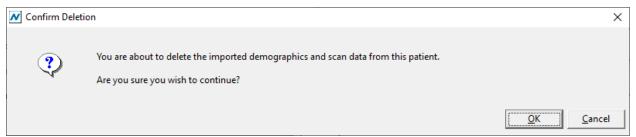


Figure 10 - Delete Confirmation Prompt

If the imported results are deleted from the patient record, the imported data will no longer be included in trending for the current patient.

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References

Microsoft Access Database Engine 2010 Redistributable:

https://www.microsoft.com/en-us/download/details.aspx?id=13255

Microsoft® OLE DB Driver 18 for SQL Server®

https://www.microsoft.com/en-us/download/details.aspx?id=56730

Microsoft SQL Server (LocalDB):

https://www.microsoft.com/en-us/sql-server/sql-server-downloads

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