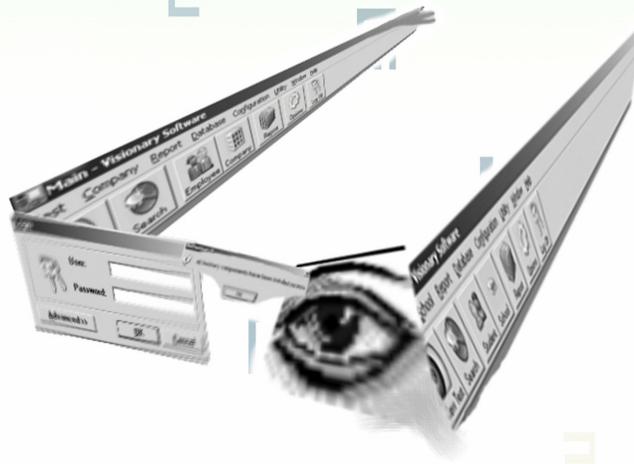


Visionary Software

Installation and Instruction Manual



www.keystoneview.com

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For information about your Screener refer to the Screener manual.



Introduction

THE IMPORTANCE OF VISION SCREENING

Vision gives us control over our environment. A significant amount of the information we learn comes through our eyes. For children, adequate vision is essential for normal development and learning. For adults adequate vision is essential for safety, job performance, entertainment and everyday activities.

An estimated 40 percent of people in the United States have some kind of vision dysfunction. Fortunately, it is also believed that up to 95 percent of these individuals can attain adequate vision through corrective or therapeutic measures. Vision testing quickly indicates if a person's vision falls within the acceptable standards of "good vision" — and if the individual would benefit from an optometrist or ophthalmologist exam and/or vision therapy.

WHO USES VISION TESTING?

Schools and child development specialists: Educators and child development specialists have long recognized the role of vision testing in detecting learning disabilities or detecting vision problems misdiagnosed as learning disabilities. Child examinations can detect visual abnormalities that can hinder development of reading, art, athletic and technical abilities. Additionally, vision testing plays an important role in vocational and educational guidance.

Clinics: Vision testing is an important part of a standard health examination. Tests can qualify subjective complaints like headaches and eye strain, and reveal pertinent data in insurance and sports-related physicals.

Occupational health/workplace testing: In the industry, a comprehensive vision testing program can provide a general census of an employee's visual disorder. When related to known risks and parameters of the job, the results of a vision screening may help prevent significant employee and company harm. Understanding how vision differences could impact employee safety will be just one benefit from your vision screening program. Vision screening can provide a historical record of an employee's visual health from hire to termination — essential in today's increasingly litigious worker's compensation climate.

Note:

The user is responsible for adhering to any and all health care laws within the country of use. Keystone View has created program options to help you adhere to these laws. Keystone View does not take responsibility for privacy law violations.

Connecting the Hardware

Situate the Vision Screener within 10 feet of the computer it connects to. Attach the Vision Screener to a power supply.

Keystone View recommends quitting all running applications before connecting your vision screener to the computer or installing the Visionary Software.

Attach the appropriate end of the USB cable to the corresponding area found in the back of your Keystone View Vision Screener. Plug the other end of the USB cable into an open USB port on your computer's CPU (central processing unit). A "Found New Hardware" window may briefly pop up. Once this window has disappeared (or if it does not show up immediately) you are ready to review the following Program Notes and install the Visionary Software.

** Visionary Software users who do not have USB ports on their computers must purchase RS232 serial cables from Keystone View or a Keystone View distributor in order to enable the Keystone View Vision Screener to interface with the computer.*

Program Notes

1. The Visionary Software requires Microsoft Windows to run. A Windows version higher than Windows98 is recommended.

2. The program will run best with a screen resolution of 1024 by 768 pixels. To check or change your computer's screen resolution:

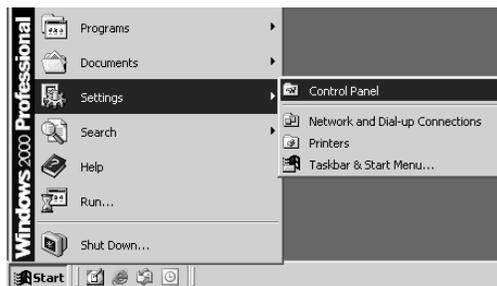
Step 1: Click [Start] at the bottom left of your computer screen.

Step 2: Click [Settings].

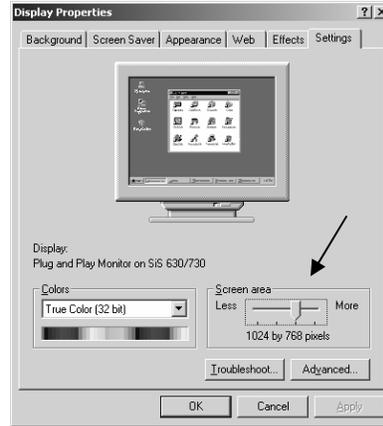
Step 3: Click [Control Panel].

Step 4: Double click the "Display" icon.

Step 5: In the "Display Properties" box, select the "Settings" tab.



Step 6: In the area labeled “Screen area” move the bar towards the right side labeled “More.” Directly beneath the scale, the pixels (screen resolution) are shown. Select “1024 by 768 pixels.”



3. After you have conducted 100 tests with your vision screener, the Screener will no longer function. To continue performing tests, select Buy Now under the Help command on the program toolbar. (CVS customers have immediate unlimited use of the software. Select 'Register' under the 'Help' command on the program tool bar. Type your key code in the blank box. Click [Register]. You are now ready to use the program.)

4. If you have modified your Vision Screener's lens values from the default options, a note listing the modified values is included with your Screener. You will need to change the software's lens settings. See page 41 to change the settings.

5. After 75 exams a box will appear reminding you to purchase the software before you have reached the 100th exam.

6. "Previous Screeners" refer to Screeners purchased before September 2006.

7. Throughout the manual "Exam" refers to a collection of tests. "Test" refers to one test question.

8. More than one type of Keystone View Screener may be connected and used within a network. Only one Screener may be connected and used at one time for each computer.

9. Please read your Screener manual prior to the program instructions that follow.

Visionary Software

Your new Visionary Software runs with any CVS, DVS or VS-V series Screener and the Visionary Colombia Screener. The software uses the same exam questions and format as classic Keystone View Screeners, while adding user-friendly tools such as an expansive electronic database ability and extensive report creation options.

Installing the Visionary Software

To begin installation, insert the Keystone View Visionary 2006 Software compact disc.

Click [English] or [Español] on the first window that appears. This selects the language used during installation.

Click [Install] on the second window that appears.

The second window shows three installation options. Choose one of the following options according to your computer's function:

[Server]: The server is the main computer maintaining the database. Choose if installing Visionary 2006 to your main computer. See page 7 to begin installation. *Some users may choose to install this version onto a laptop if the laptop is going to serve as the main computer.*

[Laptop]: With your laptop you can: 1. Connect to the server. 2. Disconnect from the server and run tests with your vision screening Screener. 3. Reconnect to the server and import the test results into your database. See page 7 to begin installation.

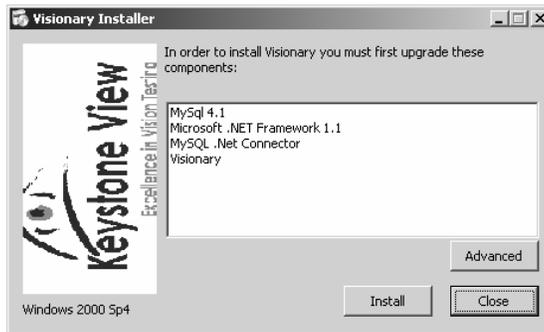
[Client Network]: This computer does not have the ability to create any database type. Tests can be performed, new examinee information entered, reports created and printed. See page 13 to begin installation.

Do not install the Server option and the Client Network option on the same computer.

To install the Server or Laptop option:

Step 1: Click [Server] or [Laptop] according to your computer's function. Functions are described on page 6.

Step 2: Click [Install]. The programs shown on the installation screen are required to install Visionary 2006. Your computer may already have one or more of the required programs. This step may take a few minutes.



Step 2.1: Click [Next].



Step 3: Click the Complete circle.

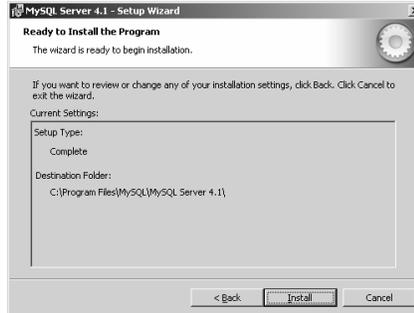
Step 3.1: Click [Next >].

Note: As you work through the remaining steps, two screens will appear behind the screen described in the manual. Continue working with the foremost screen and follow the manual instructions.



Step 4: Click [Install] and wait for installation.

A screen with a status bar will appear during installation.



Step 5: Select a new account option, or select to skip the new account option.

Free MySQL registration includes a monthly subscription to the MySQL newsletter and use of other MySQL online features. Account setup is not required to complete software installation.



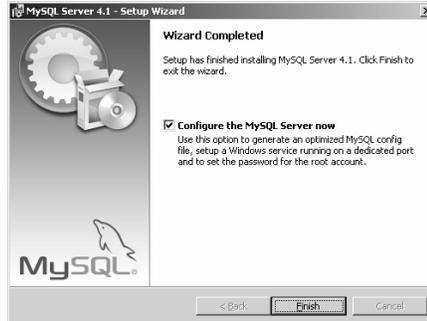
If you create a new account a MySQL.com signup screen will appear. Enter the required fields and continue through the steps. You will be returned to the Keystone View installation program once you have finished creating your account.

If you login to MySQL.com with an existing account, two screens will appear before returning to the Keystone View installation program.

If you choose to skip the sign up, click [Next >].

Step 6: Retain the default checked box “Configure the MySQL Server now”.

Step 6.1: Click [Finish].



Step 7: Click [Next >] on the MySQL Server Instance Configuration Wizard screen.

Step 8: Click the Standard Configuration circle.

Step 8.1: Click [Next >].



Step 9: Select the “Include Bin Directory in Windows PATH” box. All boxes on the screen will be selected.



Step 9.1: Click [Next >].

Step 10: Check the “Select the Modify Security Settings” box.

Step 10.1: Choose and enter a password. This password is used throughout the Visionary 2006 program. You can not connect to the Visionary Software without first creating this password. **DO NOT LOSE OR FORGET THIS PASSWORD.**



Step 10.2: Select the “Enable root access from remote machines” box .

Step 10.3: Click [Next >].

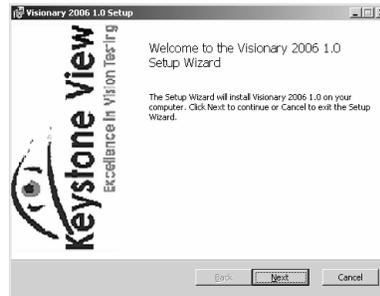
Step 11: Click [Execute].



Step 11.1: After the configuration file is created, click [Finish].



Step 12: Click [Next].

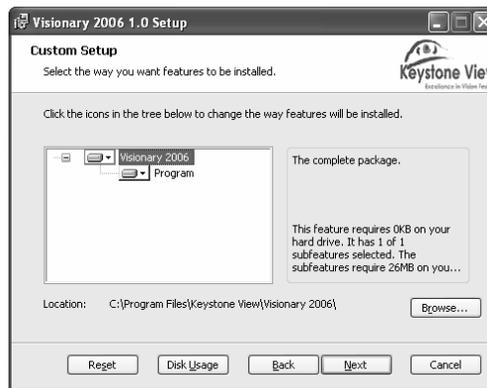


Step 13: Read the License Agreement that appears on the screen.
Step 13.1: Check the "I accept the terms in the License Agreement" box.

Step 13.2: Click [Next].

Step 14: Retain the default selected line "Visionary 2006."

Optional Step: Click [Disk Usage] to view the space available on your computer and the space needed to install Visionary 2006. This may take several minutes.



Step 14.1: Click [Next].

Step 15: Click [Install] and wait for installation. A screen with a status bar will appear during installation.



Step 16: Click [Finish] on the “Completing the Visionary 2006 1.0 Setup Wizard” screen.

Step 17: Click [OK].



Step 18: To exit, click [Back].



Step 18.1: Click [Menu] on the next screen that appears, the main menu.

Step 18.2: Click [Exit] on the language selection screen.

If installing the Client Network option:

Step 1: Click [Client Network].

Step 2: Click [Visionary Software].

Step 3: Click [Install]. The programs listed are required to finish installing Visionary 2006. This step may take a few minutes.

Step 4: Click [Next].

Step 5: Read the License Agreement that appear on the screen.

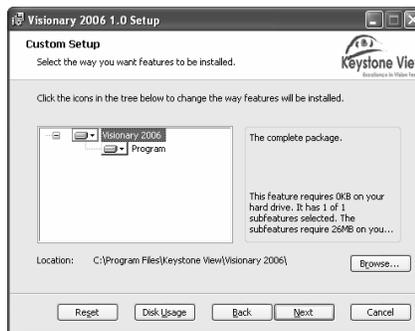
Step 5.1: Check the "I accept the terms in the License Agreement" box.

Step 5.2: Click [Next].

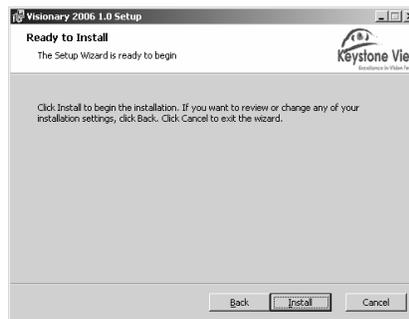
Step 6: Retain the selected line "Visionary 2006."

Optional Step: Click [Disk Usage] to view the space available on your computer and the space needed to install Visionary 2006. This may take several minutes.

Step 6.1: Click [Next].



Step 7: Click [Install]. Wait for installation.



Step 8: Click [Finish].

Step 8.1: Click [OK] on the screen that says "All Visionary component have been installed successfully!"

Step 9: To exit, click [Back].

Step 9.1: To exit, click [Menu].

Step 9.2: Click [Exit].

Opening the Program

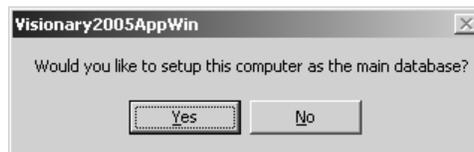
To enter the Visionary 2006 program double click on the Visionary 2006 icon found on your desktop screen. Your Vision Screener should still be turned on.



The first screen to appear will be a login screen. Enter User as Admin and password as Admin. Note both start with a capitalized A. Click [OK].



You will be asked if you would like to setup this computer as the main database.



Note: This screen will NOT appear if you installed the Client Network Option.

If you click [Yes] the computer will be installed with the main database. Only one computer in a network needs to be installed with the main database. Though it is possible to have more than one main database, very few situations exist where this would be ideal. Changes to one main database do not transfer to a second main database.

If you click [No], the database will not be installed and you will need to enter the IP address for the main server before continuing with the program. This option is ideal for any computer other than the main server. An offline database will need to be installed before the computer can be used for testing (see page 33 for offline functions).

Click [Yes] or [No].

Now enter the password you created during the Visionary installation. Leave the user as "root".

Click [OK].



Click [OK].



Click [OK] on the Login screen to enter the program.

If you are using a serial cable connection, the computer will still look for a USB device. A screen will appear: "USB Device Not Found". Click [OK] and the Screener will connect with the serial cable. You can not use the Screener with a serial cable (such as the hand control) and a USB cable plugged into the Screener at the same time.

Unlocking Your Software

After you have conducted 100 tests with your vision screener, the Screener will no longer function. To continue performing tests, contact your distributor or Keystone View at 866.574.6360 to receive a key.

Once you have received your key:

Open your Visionary Software as usual. Your Vision Screener must be connected to your computer.

On the tool bar select Help > Register. In the small box that pops up, type in the key you were given. The key is case-sensitive.

Click 'Register'.

You now have full access to the software, and can continue to use the program as normal.

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Your software default screen has a tool bar near the top of the page with an icon bar directly below. At the bottom of the screen is a status bar.

The status bar shows the type of Screener you have connected, the exam and data profile you are currently in, and the status of your Screener.

If your Screener is not attached, options requiring a Screener will not be available.

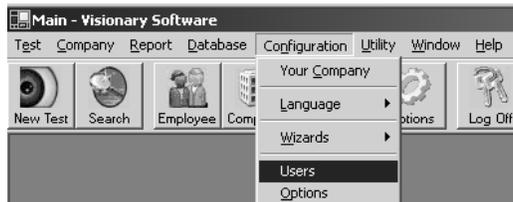
Using Your Software

Setting Up User Information (Adding/Removing Users)

Only Administrators can add or remove a user.

To add a user:

From the toolbar select Configuration > Users.



Step 1: Enter the specified information inside the blocks. Once a new login name is saved, it can not be changed.

A screenshot of the 'User - Configuration' dialog box. It is divided into several sections: 'Personal Information' with fields for 'Last Name', 'First Name', 'Middle Name', 'User Type' (a dropdown menu), and an 'Active?' checkbox; 'Security Information' with fields for 'Login', 'Password', and 'Confirmation'; 'Mailing Address' with fields for 'Address', 'City', 'State', 'Zip', and 'Country'; and 'Communication Information' with fields for 'Home Phone', 'Fax', and 'Email'. At the bottom of the dialog are four buttons: 'New', 'Find', 'Save', and 'Exit'.

Step 2: Specify the User type. (Note: A "User" designation limits what the user can alter in the program). Check the "Active?" box to the right of the "User Type" box. **If left unchecked, the user can not login or use the program in any way.**

Step 3: Click [Save].

Note: The 'Admin' login can not be changed from an Active, Administrator setting.

It is recommended to immediately change the original login information for the Visionary Software.

Administrators are the only users able to activate or deactivate other users. If a user needs to change his/her password he/she must:

Step 1: Log in with the current password or have an administrator login.
Step 2: Select Configuration > Users.
Step 3: Enter and confirm the new password.

If a user forgets his/her password the administrator must first log in.
After login, follow steps 2 and 3 above.
Click [Exit] to leave the window without making changes.

To see a list of all users or to search for a specific user, click [Find].
Double click on the user's name to edit information for that user.

Tests can be run using the Keystone View Visionary Software as soon as user set up is complete. However, the default settings may not meet your company needs. To customize the program, follow the simple instructions starting on page 20, the Data Collection Profile.

Quick Start

To run an exam using the default profile:

Step 1: Select the type of default profile you would like to use: Company or School.

Step 1.1: If using the Company default, continue to Step 2. To change to the school default setting, select the "Options" icon from the icon bar.

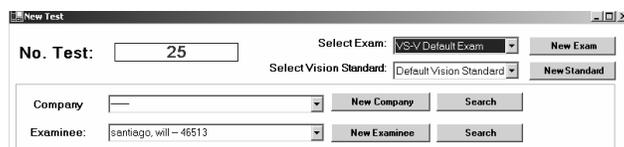


Step 1.2: Click the down arrow under "Currently used data profile:"

Step 1.3: Select "School Default." Click [OK].

Step 2: Open a new test screen. To open a new test screen click the "New Test" icon or select Test > New Test from the tool bar.

Step 3: Select an exam. Only exams operable with the connected Screener will appear. Previous Screeners will show all exams.



No. Test:	25	Select Exam:	VS-V Default Exam	New Exam
		Select Vision Standard:	Default Vision Standard	New Standard
Company:		New Company	Search	
Examinee:	santiago, will - 46513	New Examinee	Search	

Step 4: Select the Vision Standard. The vision standard is the pass/fail level for each test within the specified exam.

Step 5: Select an examinee. Click the down arrow to the right of the "Examinee:" box to show a list of names, or click [Search]. The search function allows you to search for examinees based on profile specifics.

Step 5.1: If the Search function is used, double click on the examinee's name to bring up a New Test window for that person.

For new examinees:

Click [New Examinee] to create a new profile.

You may also click the icons [Employee] > [New].

Fill in the new examinee form. Areas titled in red are required information. Once the form is completed, click [Save].

Click [OK].



Below the Examinee information on the New Test screen are questions concerning the examinee's eyesight. Click the "Yes" or "No" circle for each question according to the examinee's responses.

If the examinee answers yes to question 1 fill in the block below the question with the specialist's name and approximate date of the exam and/or other data concerning the exam.

If the examinee answers yes to question 2, select an option from the drop down box.

If the examinee answers yes to question 3, fill in the block below the question with the difficulty as explained by the examinee.

Click [Next] to begin the exam. Test questions and responses will vary according to the Screener you are using. Your Screener manual discusses each exam in detail.

Use the navigation buttons in the lower right of the test screen to move through the exam.

Data Collection Profile Wizard

The Data Collection Profile Wizard sets up your software to fit the type of organization you're testing (Business or School), the type of people in the organization (Employees or Students) and what information you want to collect from each.

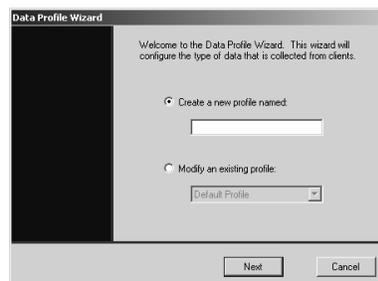
The Data Collection Profile Wizard allows you to:

- Define what information is pertinent to collect from your examinees (ex. *Last name, phone number, etc*)
- Create and change customized profiles based on your company's needs
- Save time by not having to fill out avoidable blocks of information
- Create and store many different data collection profiles as your examiner's needs change.

Step 1: Select Configuration > Wizards > Data collection profile.

Step 2: Choose to create a new data profile, or modify an existing data profile.

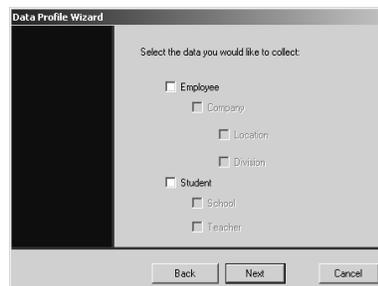
Step 2.1: Click [Next].



Step 3: Choose the "Employee" box or "Student" box. The Employee selection corresponds well with a Company situation, and the student selection with a School situation. Beneath each data type are other data type categories. Check each box you would like for this profile.

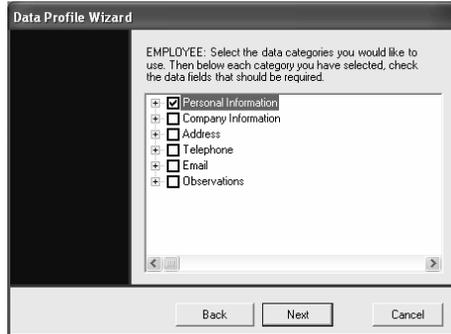
Note: "Employee" and "Student" can not be checked in the same profile.

Step 3.1: Click [Next].



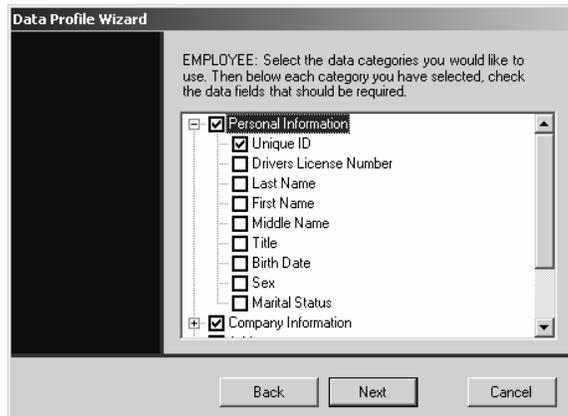
Step 4: The next box has options for what information will be on the New Profile form. This is the form used when creating a new examinee entry.

Check the top level box (Personal Information, Company information, etc) to add the sub-categories (Unique ID, Drivers License Number, etc) to the new entry form (Personal Information is checked in the right figure).



Step 5: Click the plus sign to the left of the category name to see each sub-category.

Note: Checked sub-categories indicate required fields on the New Profile forms. In the below figure, Unique ID would be the only required field on the new entry form.



Step 5.1: Click [Next] to continue.

Step 6: Repeat the process for each data type chosen at the start of the Profile Wizard process (Step 3).

Step 7: Click [Finish].

Run an Exam

Step 1: Open the new test screen. To open a new test screen click the “New Test” icon or select Test > New Test from the tool bar.

Step 2: Select an exam. Only exams operable with the connected Screener will appear. Previous Screeners will show all exams.

Note: In this section of the manual, “Company” may appear as “School” on your screen depending on the profile you are working in. The functions are the same. If you have not created a company or school, this option will not appear. Profiles are changed with the Data Profile Wizard discussed on page 20.

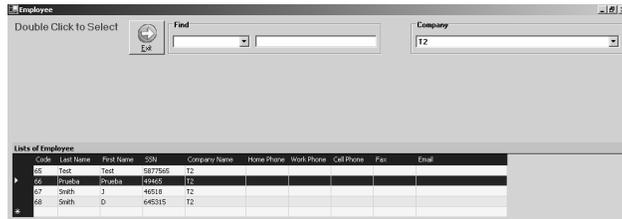
The New Exam button directs you to the New Exam Wizard that allows you to create a customized test (see page 35 to run the New Exam Wizard).

Step 3: Select the Vision Standard. The vision standard is the pass/fail level for each test within the specified exam.

Click the New Standard button to create new standards with the New Vision Standard Wizard (see page 37 to run the New Vision Standard Wizard).

Step 4: If you know the company the examinee is listed under, you can click the down arrow at the right of the “Company” box to show a list of companies or click [Search]. The search function allows you to search based on profile specifics.

Step 5: Select an examinee. Click the down arrow to the right of the “Examinee:” box to show a list of names or click [Search]. The search function allows you to search based on profile specifics.



Step 5.1: If the Search function is used, double click on the examinee’s name to bring up a New Test window for that examinee.

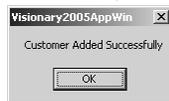
For new companies or examinees:

Click [New Company] or [New Examinee] to create a new profile.

You may also click the icons [Employee] > [New] or [Company] > [New], depending on your profile type.

Fill in the new examinee form. Areas titled in red are required information. Once the form is completed, click [Save].

Click [OK].



Below the Examinee information are questions concerning the examinee’s eyesight. Click the “Yes” or “No” circle for each question according to the examinee’s responses.

If the examinee answers yes to question 1 fill in the block below the question with the specialist’s name and approximate date of the exam and/or other data concerning the exam.

1. Have you ever been examined by a vision specialist ?

Yes No

How long since the last test? 05/06/07 Dr. Good Eyes

2. Glasses / Contacts ?

Yes No

Other

3. Do you have any difficulty with your eyes ?

Yes No

What kind of difficulties? Difficulty reading magazines

Next Cancel

If the examinee answers yes to question 2, select an option from the drop down box.

If the examinee answers yes to question 3, fill in the block below the question with the difficulty as explained by the examinee.

Click [Next] to begin the exam. Test questions and responses will vary according to the Screener you are using. Your Screener manual discusses each test in detail.

The top row of the test screen shows the test number, examinee's first and last name, exam type and date.

The second row shows the test name.

Line	Column A	Column B	Column C
Line 1	<input type="radio"/> 20/20 = 547638	<input checked="" type="radio"/> 20/25 = 428576	<input type="radio"/> 20/30 = 943852
Line 2	<input type="radio"/> 20/40 = 795823	<input type="radio"/> 20/50 = 357248	<input type="radio"/> 20/60 = 7236
Line 3	<input type="radio"/> 20/70 = 9574	<input type="radio"/> 20/100 = 92	<input type="radio"/> 20/200 = 5

The third row contains the test question and response situations.

The fourth row contains the test.

The fifth row has several buttons to modify and navigate through the exam.

[Occlude- Off/On]: Occludes the left or right eye

[Sensor- Off/On]: Turns on or off the head positioning sensor. An "On" setting allows the Screener to function whether or not the examinee has activated the sensor.

[Back]: Returns to the previous test without changing previous results.

[Cancel]: Cancels the current test and deletes current test results.

[Next]: Advances to next screen.

Beneath the rectangular buttons is the status line.

The status line shows the current exam, test and Screener status. For example, "Slide: 1" tells shows that you are on the first slide. When you press [Next] the second screen will show as slide 2.

The following describes what each title monitors:

Slide: Indicates the number of the current slide displayed.

Left Occlude: "On" indicates the left eye is occluded (darkened) during a test. "Off" indicates the left eye is included during a test. This option is only operational during certain tests and will remain blank (default is "Off") if not applicable.

Right Occlude: "On" indicates the right eye is occluded (darkened) during a test. "Off" indicates the right eye is included during a test. This option is only operational during certain tests and will remain blank (default is "Off") if not applicable.

Illumination: "Day" indicates bright illumination. "Night" indicates less illumination.

Distance: Indicates the lens setting. Four distances are available: Far, Intermediate 1, Intermediate 2 and Near.

For specific questions concerning exams and tests, consult your Screener manual.

For information about printing, exporting or importing reports, see page 31.

Create a report

Create a report to print, e-mail, export or load:

- User information
- Lists of tests administered (including results)
- Examinee test results
- A customized report based on collected information

Choose one of the following report options:

1. Create a report of all users: Select Report > User > List User.

2. Show a list of exams administered by a specific user: Select Report > User > List of exams for Users. Double click on a user name to show a list of exams administered by that specific user. Examinees, results, and dates tests were taken are also shown.

3. Show a list of all completed tests, results, examinee and date taken: Select Report > Test > List of Tests.

4. Show a list of all tests and results for an individual examinee: Select Report > Test > List of results by test. You can search by last name or person ID. Within the customer's results, you can search by exam type, vision standard and test date.

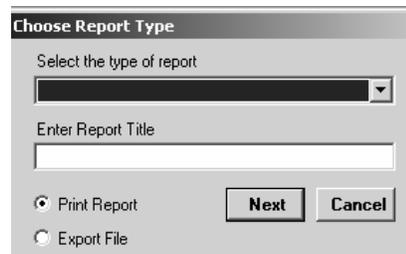
To create a customized report:

Step 1: Select Report > User defined report from the tool bar or click the "Report" icon.

Step 2: Select the type of report you would like to create.

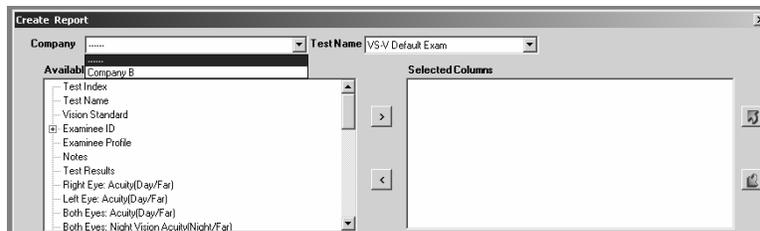
Step 3: Enter a title for the report.

Step 4: Chose to save the report as a file (Export File), or to print. A report saved to file has no column limit, a printed report allows a maximum of eight columns.

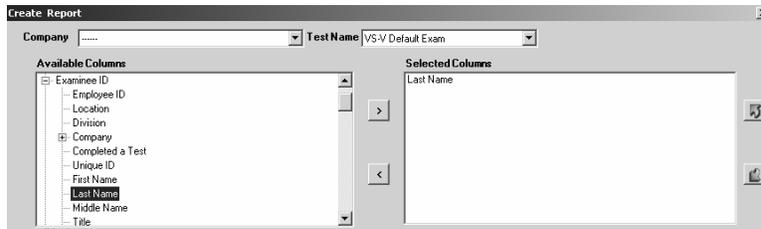


Step 5: Click [Next].

Step 6: Depending on your profile setting, the top row will present different options for your report. In the below example, a company and test name can be selected. In a school profile, no such options exist.



Step 7: Add columns (fields) to your report by clicking the column name in the “Available Columns” box on the left of the screen. Column names with a plus sign to the left offer an additional list of field options (not available with the ‘Print Report’ selection).



These options are taken from other report types. For example, click the plus sign next to “Examinee ID”. Several more column names will appear below the plus sign. Click “Last Name” to add examinee last names to your current report.

Note: If you are using the school profile, you can select to show student, teacher or both types of data. Click “Student”, “Teacher” or “Both” on the bottom left hand side of the screen. If you select “Both” the option to add data from a second field is not available.

Once highlighted, click the right arrow, or double click the column title to add it to your report.

Step 8: Repeat Step 7 until you have each desired column in the “Selected Columns” box. Printed reports can not add more than eight columns.

To remove a column from your report:

Select the column title from the “Selected Columns” box on the right and click the left arrow or double click the column title.

To reorder the selected columns:

Use the green arrows to the right of the “Selected Columns” box.

Step 1: Select the column title you want to move.

Step 2: Click the green up arrow or green down arrow to move the column title. The top column title will be the first column on the left of your report.

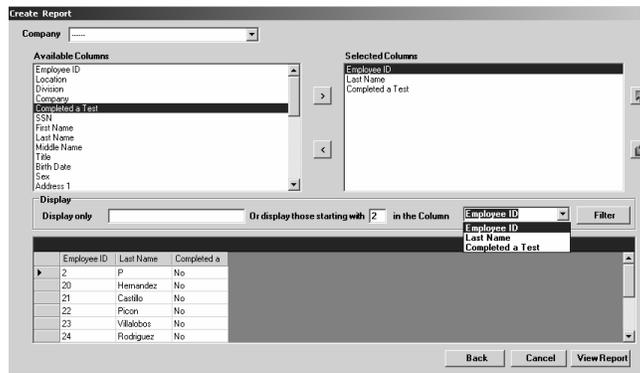
To further specify your report:

Use the options shown in the “Display” row (near the center of your screen).

Step 1: Select a column title from the drop down box on the right (next to [Filter]).

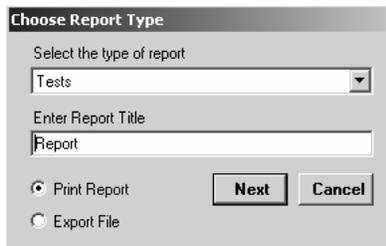
Step 2: Type in a “starting with” requirement or a “Display only” requirement.

Step 3: Click [Filter] to show the results.



Tests report type option only:

When creating a Tests report, you have the option to show each test’s overall result.



To show the test’s overall result:

Check the “Pass/Fail” box at the bottom left side of the screen. When left unchecked, the detailed test results (e.g., 20/20; 6/6) are shown.

A “Normal” or “Abnormal” response replaces the test results when the “Pass/Fail” box is checked. “Normal” indicates passing, “Abnormal” indicates a failed test.

Save, Load, Print or View Your Report:

Save Report

Select to save a report format likely to be used frequently in the future.

Step 1: Create a report.

Step 2: Click [Save Report].

Step 3: Click [OK].

Load Report

Choose to load a frequently used report, to alleviate re-creating the same type of report many times.

Step 1: Save the report you would like to load at a later time (see above).

Step 2: Once new data has been collected and you are ready to create an updated report, follow Steps 1-4 for creating a customized report (page 26).

Step 3: Click [Load Report].

Step 4: Select which report you would like to load and click [Open].

Keystone View has created a default report option named 'Default.rep'. This report option includes examinee names, test name, date of test, vision standard used, test results and glasses status.

The updated report will appear on your screen. Continue with printing or saving your report.

Save File

If in Step 4 of "Creating a Customized Report" on page 26 you selected to export your report click [Save File]. The file will be saved as an XML file. To view the report:

Step 1. After clicking [Save File], select a place to save your report. The default directory is Program Files > Keystone View > Visionary 2006.

Step 2. Type in a name for your report and click [Save].

Step 3: Click [OK] on the "File Saved" screen.

Step 4: To open the report, locate the report file from the saved location.

Step 5: Right click the report file.

Step 6: Select "Open with > Microsoft Excel." (You may need to select Open With > Choose Program > Microsoft Excel.)

Step 7: Select how you would like to open the file and click [OK].

View/Print Report

If you selected to print your report click [View Report] to print or export the report. Exporting the report via the print option is not as complete as choosing "Export File" in Step 4 of "Creating a Customized Report" on page 26.

All reports are printed on company letterhead. See below to change your letterhead.

To print an individual's information (e.g., contact info, company):

Step 1: Click the Employee or Student icon.

Step 2: Click on an individual's name.

Step 3: Click the Modify icon.

Step 4: Click [Print] in the lower right corner.

Change your company letterhead and/or logo

All reports are printed on company letterhead. Before printing reports, you may wish to configure your company information and logo.

Step 1: Select Configuration > Your Company.



Step 2: To change the company information, enter the correct information in the "Mailing Address" and "Contact Information" boxes.

To change the logo click [Browse] to find your logo. A logo more than one megabyte in size will not be accepted.

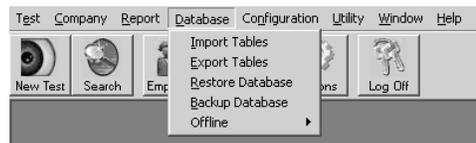
Step 3: Click [Save] to update your information.

Step 4: Click [Exit] to return to the main screen.

The Keystone View logo and information in the upper right corner of reports cannot be changed.

Database

The server computer has the option to import tables, export tables, restore a database, backup a database or work offline.



You can only import or export tables while using the actual server computer. Non-server computers do not have the import/export option.

Export or Import Tables

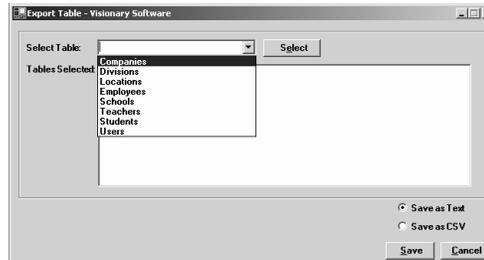
Export or import tables to:

- E-mail data to another office, school, administrator, etc
- Save tables in a spreadsheet format
- Interface with already existing databases and software

To export a table:

Step 1: Select Database
> Export Tables on the tool bar.

Step 2: Click the down arrow at the right of the "Select Table:" box.



Step 3: Select which table(s) you would like to export.

Step 3.1: Click [Select]. The selected table will move into the "Tables selected:" box.

Step 3.2: Repeat Step 3 until all tables you would like to export are in the "Tables Selected:" box.

Step 4: Select to save tables as text or as a CSV (Comma Separated Values) file. CSV files can be easily opened with most spreadsheet programs such as Microsoft Excel.

Step 5: Click [Save]. All tables shown in the "Tables Selected:" box will be exported. The name of each table will be visionary_tablename. For example the Teacher table is titled visionary_teacher. You are not able to change the table name. Tables are stored in the "Tables" file found in your Keystone View directory on your hard drive.

The default directory is: Program Files > Keystone View > Visionary 2006 > Tables

Step 6: Click [OK].



Step 7: To exit the window, click [Cancel] or click the "x" in the upper right corner of the window.

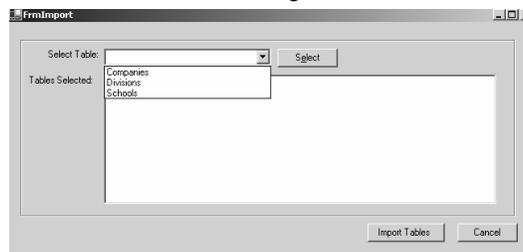
To import a table:

Note: Only exported tables can be imported. The exported table must be in the Visionary 2006 > Tables directory before the table can be imported.

Note: Back up your database before importing a table. If the imported table had an opportunity to be altered and is imported, the table could negatively effect your main database.

Step 1: Select Database > Import Tables.

Step 2: Click the down arrow at the right of the "Select Table:" box.



Step 3: Select which table(s) you would like to import. Selected tables will replace tables with the same name in the Visionary program.

Step 3.1: Click [Select]. The selected table will move into the "Tables Selected:" box.

Step 3.2: Repeat Step 3 until all tables you would like to import are in the "Tables Selected:" box.

Step 4: Click [Import Tables]. All tables shown in the "Tables Selected:" box will be imported.

Step 5: Click [OK]. Any new information imported will automatically be updated in your database.

Step 6: To exit the window, click [Cancel] or click the "x" in the upper right corner of the window.

Restore or Backup a Database

Note: Databases are automatically restored during the "Restore" and "Import" process. Backed up databases are found under Keystone View > Visionary 2006 > Backup on your hard drive. Back-ups are titled: BACKdd-mm-yyyy-hh-mm, corresponding to the date and time of backup.

To restore a database:

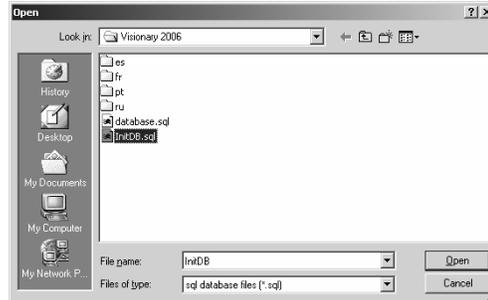
Select to replace the entire database or to place the server database onto a non-server computer that is connected to the server.

Step 1: Select Database > Restore Database.

Step 2: Select an .sql file database to restore.

Step 3: Click [Open].

Note: The database named InitDB.sql is the original blank Visionary database.



Step 4: Click [OK].

To backup a database:

Select to save the entire database as a .sql file.

Step 1: Select Database > Backup Database.

Step 2: Create a new file name for your database or select a database to replace.

Step 3: Click [Save].



Step 4: Click [OK].

Delete Examinee Information

To delete an examinee from the database you must be connected to the Server and signed on as an administrator. Only Students, Teachers and Employees can be deleted.

Step 1: Bring up the list of students, teachers or employees by clicking on the corresponding icon, or selecting Company > Employee or School > Student or Teacher from the tool bar.

Step 2: Click on the row of the examinee you wish to delete.

Step 3: Click the icon 'Delete.'



Step 4: Click [Yes] or [No].

You may view a record of who deleted whom from the database by selecting Configuration > Check Deletions.

Note: This step only deletes the person from your current database. Databases are automatically deleted 6 months from the creation date, but you may wish to immediately delete this person from all records within the Visionary program. To manually delete old databases go into the Keystone View directory and delete each back up containing the person you wish to entirely delete. The directory is on your hard drive at Keystone View > Visionary 2006 > Backup.

Work Offline

Working Offline allows you to:

- Work anywhere without a server connection (including off-site)
- Run and save tests even if your server is down (if an offline database has been previously created)

While in Offline mode, options are limited to changing the program language, performing tests, entering new examinee information and printing or exporting reports.

Step 1: Select Database > Offline > Setup Offline Connection.



Step 2: Enter your password. Use the same password created during the Visionary 2006 Software installation.

Step 3: Click [OK].

Step 4: Select Database > Offline > Create Offline Database.



Note: To ensure you are working with the most current database, create the offline database each time you go offline and add offline data to the server each time you return online.

Step 5: Click the Log Off icon on the icon bar. A Login box will appear.

Step 6: Enter your user and password information in the Login box.

Step 7: Click [Advanced > >].

Step 7.1: Check the “Work Offline” box.

Step 8: Click [OK].



To return to Online mode:

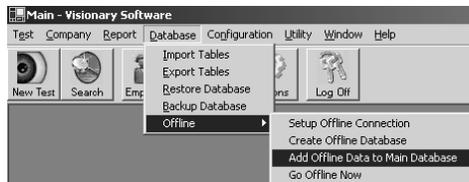
Step 1: Click the Log Off icon in the icon bar.

Step 2: Enter user and password information in the Login box.

Step 3: Click [OK].

To add the data collected offline to the main database:

Step 1: Select Database > Offline > Add Offline Data to Main Database



Step 2: You will be reminded to backup the main database. If you have recently backed up the main database click [Yes]. If you have not backed up the main database, click [No] and backup the main database. Restart the add offline procedure.

Step 3: After the update is completed, click [OK].



If all available offline information has been added to the main database the following screen will appear:



Once you have created an offline database, you may use the “Go Offline Now” option found under Database > Offline > Go Offline Now. This option eliminates the need to log off and on; but will not automatically update the main database with new information.

Wizards

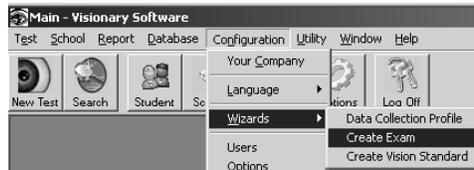
Three different wizards are available to customize data profiles, exams and vision standards. The data profile wizard is explained on page 20.

Create Exam Wizard

The Create Exam Wizard allows you to:

- Choose from available tests to create a customized exam
- Change the test order of new or existing exams
- Change which exam is your default exam for each Screener

Step 1: Select Configuration > Wizards > Create Exam



Step 2: Choose to create a new exam or modify an existing exam. If this is your first use, you will need to create a new exam. Only exams created for the connected Screener will appear. Previous Screeners will show all exams.

To change a different Screener's exam, turn off the connected Screener. Exit the Create Exam page. Return to the Exam Wizard and all created exams will now appear in your choices.

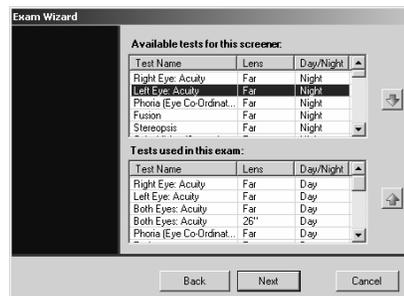
Step 2.1: If you are creating a new exam, choose to base the new exam from the default exam, or start with no basis. The default exam can not be altered.

Optional Step 2.2: Check the box if you would like to make this exam the default for the Screener you've selected.

Step 3: Click [Next].

Step 4: From the list of available tests, click on a test you would like to put in the exam. If you are creating an exam with a basis, tests will already be moved to the lower box.

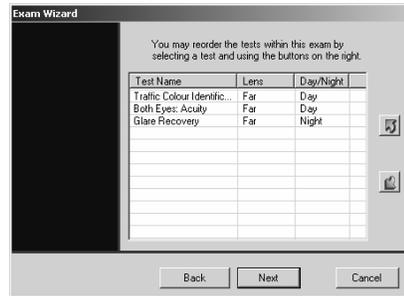
Step 5: Click the green down



arrow to the right of the test list to add the test to the exam.

To remove a test from your exam select the test from the “Tests used in this exam:” box and click the green up arrow.

Step 6: Once all tests for your exam are shown in the lower box click [Next].



Step 6.1: To change the test order within the exam, select a test and use the green arrows on the right to create your ideal test order.

Step 7: Once the test order is complete, click [Next].

Step 8: Click [Finish].

Create Vision Standard Wizard

The Vision Standard Wizard allows you to change the passing levels for each test within an exam.

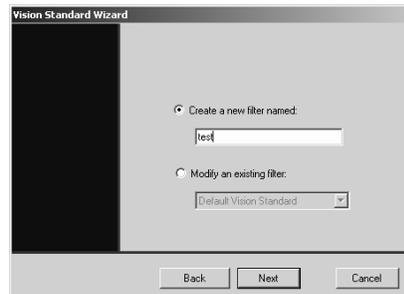
Step 1: Select Configuration > Wizards > Create Vision Standard

Step 2: Select an exam to create standards for. Only exams that can be used with the connected Screener will appear. Previous Screeners will show all exams.

To change a different Screener's exam, turn off the connected Screener. Exit the Vision Standard Wizard. Return to the Vision Standard Wizard and all options will now appear in your choices.

Optional Step 2.1 : Check the box to make these levels the default for the selected exam.

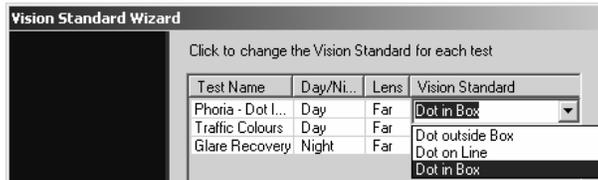
Step 3: Choose to create a new filter (standards), or modify an existing filter. The default filter can not be changed.



Step 4: Click [Next].

Step 5: From the list of tests, select a test to change its Vision Standard.

Step 5.1: Click on the current Vision Standard to show a down arrow.



Step 5.2 Click on the arrow to see a drop down box with other options.

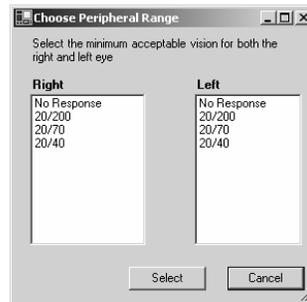
Step 6: Select and click the desired standard. You must click a Vision-ary Standard option before moving to a different Vision Standard. If you are changing any of the following tests, a box will pop up rather than the drop down arrow:

- Acuity (A) Pediatric
- Vertical Phoria
- Phoria Lateral
- Phoria (Eye Co-Ordination)
- Peripheral Visual Field

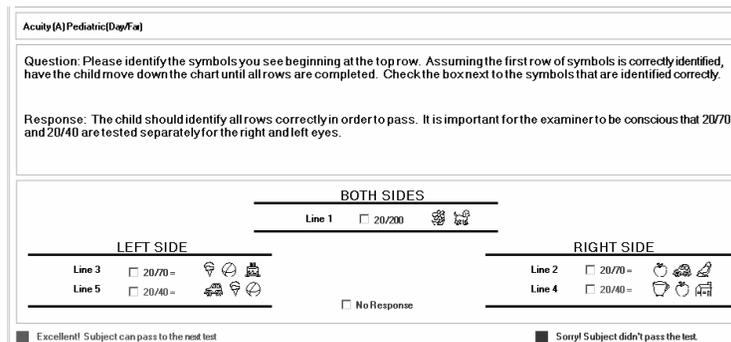
Acuity (A) Pediatric Test:
This test will test both eyes together, and the right and left eye separately. The “No Response” value refers to the entire test.

The “20/200” value refers to the binocular portion of the test.

The “20/70” and “20/40” values refer to the monocular portion of the test.



See the example test screen below for further assistance.



Click [Select] once you have selected your values.

For the remaining tests a range entry is required.

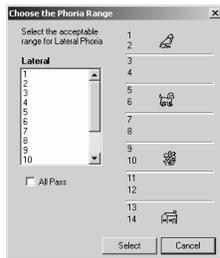
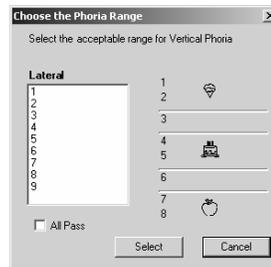
To create a range, click a low value and a high value. The values highlighted in blue signify your range.

To select all values check the “All Pass” box below the range value options.

Once the range has been set, click [Select].

Vertical Phoria:

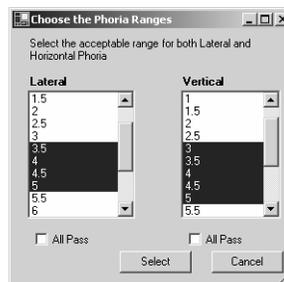
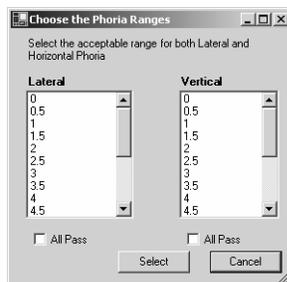
Select a range of acceptable responses between “1” and “8”. The scale on the right in the pop up box shows which numerical values correspond with the images seen on the test. The default passing values are “4” and “5” (the cake figure).



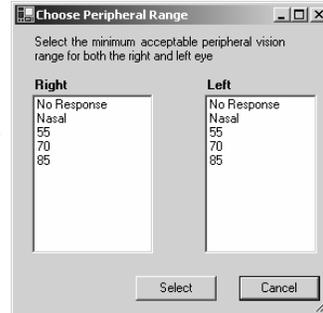
Phoria Lateral:

Select a range of acceptable responses between “1” and “14”. The scale on the right of the pop up box shows which numerical values correspond with the images seen on the vision screener slide. The default passing values are “1” and “10” (the bird to the flower figures).

Phoria (Eye Co-Ordination): Select a range of acceptable responses between “0” and “9”. A central value of 4.5 is required for this test. The default passing values for the Lateral response (red line) are “1.5” to “6.5.” The default passing values for the Vertical response (green line) are “3.5” to “5.5.”



Peripheral Visual Field:
 Select the minimum accepted response or each eye. Peripheral targets are lit starting with the “Nasal” response, followed by “55”, “70”, and finally “85”. The default accepted response is “85” for the left and right eye.



Step 6.1: In the Vision Standard column use the drop down arrow at the right to select the values you have just created.

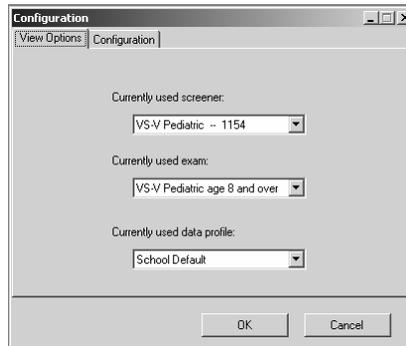
Step 7: Once all Vision Standards have been set, click [Next].

Step 8: Click [Finish].

Change Program and Screener Configurations

To view and change the Screener, exam, and profile currently in use select Configuration > Options.

Click the “View Options” tab.

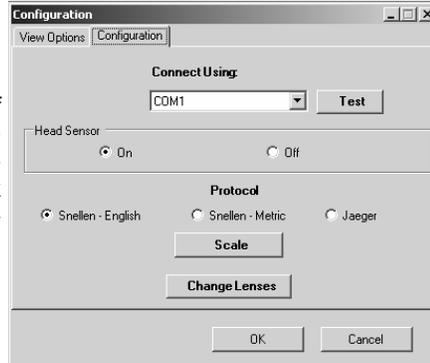


To view or change the program and Screener configuration click the “Configuration” tab.

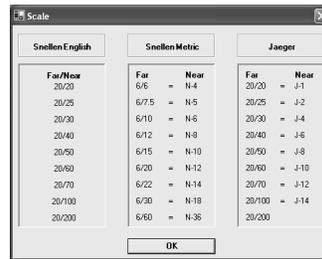
Click [Test] button to show each port's availability. (This function is only available with a serial connection).

Click the “On” or “Off” circle for the head sensor setting The “Off” selection turns on the Screener light and allows the Screener to function whether or not an examinee’s head has activated the sensor.

Select the circle to the left of the test protocol you will be using: Snellen English, Snellen Metric or Jaeger. Click [Scale] to view the three protocols.



Changing the protocol will change the scale used throughout the program.



Click [Change Lenses] if you have modified the Vision Screener's default lens values. If your lenses have been modified, a note listing the lens values will have been included with your Screener.

Changing Lens Settings

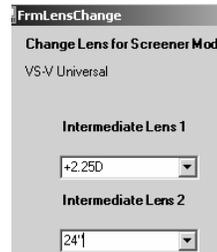
Note: Only an administrator can change the lens settings.

To change the lens setting select the appropriate lens for the Intermediate Lens 1 option and the Intermediate Lens 2 option.

Be sure the value listed as 'Int 1' on your paper matches the value you have selected for the 'Intermediate Lens 1' option. The value for 'Int 2' should match the value selected for 'Intermediate Lens 2'.

Your new Keystone View Vision Screens following lenses:

Near: 16 inch
 Int 1: +2.25D
 Int 2: 24"
 Far: 20 feet



View Deleted Persons Record

Use this option to view which user deleted which examinee and the date the deletion took place.

Step 1: Select Configuration > Check Deletions from the tool bar. A box will appear showing the last name of deleted examinees, what user deleted this examinee and when the examinee was deleted.

Check your USB or Serial Connection Status

Using an USB connection:

Select Utility > Screener Status to test the functions of the attached Screener. When you exit the status screen, your Screener automatically resets to the first target setting.



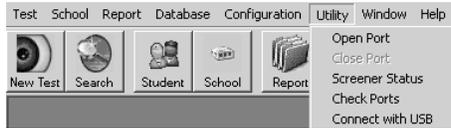
Select Utility > Find USB to find your USB device.

Select Utility > Connect with Serial, if using a serial connection. If you are switching from a USB to a serial connection you must first turn off the Screener.

Using a serial connection:

Click Utility on the toolbar.

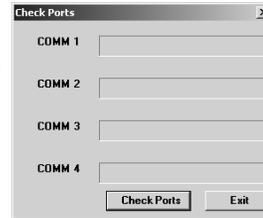
Select Utility > Open port to connect the computer to the Screener.



Select Utility > Close port to disconnect the Screener from the computer.

Select Utility > Screener Status to check the functions of the attached Screener. When you exit the status screen, your Screener automatically resets to the first target setting.

Select Utility > Check Ports to check the status of each port.



Step 1: Click [Check Ports]. Each port will show availability/Screeners status. If the Screener is found, the Screener's serial number will appear beside the status. The program will then connect to the port the Screener is plugged into.

Step 2: Click [Exit].

Select Utility > Connect with USB if using an USB connection.

To order the full software or for other questions contact Keystone View at 866.574.6360 or e-mail sales@keystoneview.com.

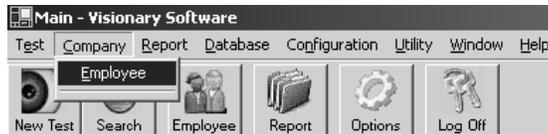
Navigating the Tool Bar

Test > New Test. Begins a new exam. To perform a test see page 22.



Test > Exit. Closes the Visionary program.

Company > Employee. Depending on your profile specifications, Company will drop down to Employee and/or Company and/or Division and/or Location. School will drop down to School and/or Student. Profile specification options are on page 20.



Click "Employee" to create a new employee profile, modify old employees, print employee information or find employees by a variety of specifications such as last name, first name, unique ID, etc. You can also view employees by individual companies. The functions will be similar for Company, Location, Division, School and Student options.

Report: Creates reports based on field specifications and filters you have created for the data profile. See page 25 to create a report.

Database: The server Screener has the option to import tables, export tables, restore a database, backup a database or work offline. Non-server Screeners do not have the import or export option. To use the database function see page 31.

Configuration > Your Company. Choose to change your company information. See page 30 for instruction.

Configuration > Language. Choose program language: English, Spanish, Russian, French or Portuguese. After you select a different language close out of the program and log in again.

Configuration > Wizards. Three different wizards are available to customize data profiles, exams and vision standards. See page 20 to learn the data profile wizard and page 35 for the exam and vision standard wizards.

Configuration > Users. Add or change user data. See page 17.

Configuration > Options. View and change the Screener, exam, and profile currently in use. See page 40 to view the options.

Configuration > Check Deletions. Shows who was deleted, by whom on what date.

Utility: Check Screener and computer connections. See page 42.

Window: Arrange open windows horizontally, vertically or cascading. Select "Arrange Icons" if minimized windows are scattered on the page. "Arrange Icons" places all minimized windows along the bottom of the screen.

Help > Buy Now: . Print or export for e-mail an order form to buy the Visionary Software.

Help > Register: Select after buying your software. Upon buying the software, you will be given a key code to enter during registration. After registering, wait several seconds before beginning a new exam.

Help > About. View software and contact information.

Help > Support. View Screener information, test count and Keystone View contact information. Previous Screeners will not provide the Screener model number, Firmware Version number or the manufacture date.

Navigating the Icon Bar



New Test: Begin new exam. This function is identical to the tool bar New Test option.



Search: Search for a specific test taken by an individual. You can search by a variety of specifications including exam type, vision standard and test date. This function is identical to the tool bar Reports > Tests > List of all results by test option.



Employee: Create new employee profile, modify old employees, print employee information, find employees by a variety of specifications such as last name, first name, Unique ID, etc. You can also view employees by company. This function is identical to the tool bar Company > Employee option.

Click on Employee to show a second icon toolbar:

[New]: new employee form: Areas written in red are required information.



[Modify]: allows you to modify existing employee forms



[Print]: Prints an employee list on company letterhead. Also allows report export.



[Exit]: Exit from employee page back to the main Visionary Software page.



The functions will be similar for Company, School, and Student options.



Report: Creates reports based on field specifications and filters you have created for the data profile. See page 25 to create a report.



Options: View and change the Screener, exam and profile currently in use. See page 40. This function is identical to the tool bar Configuration > Options selection.



Log off: Logs you out of Visionary Software, directly to the Visionary Software login box.

Uninstalling Your Software

Note: Completely uninstalling the Visionary Software deletes two programs that other software on your computer may use.

Note: Deleting MySQL will delete any database data on your computer.

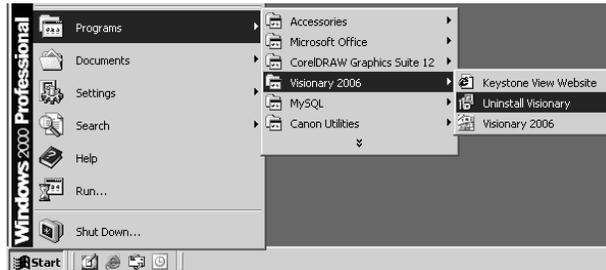
To completely uninstall the Visionary Software:

Step 1: Click [Start] at the bottom left of your computer screen.

Step 2: Click [Programs].

Step 3: Click [Visionary 2006].

Step 4: Click [Uninstall Visionary].



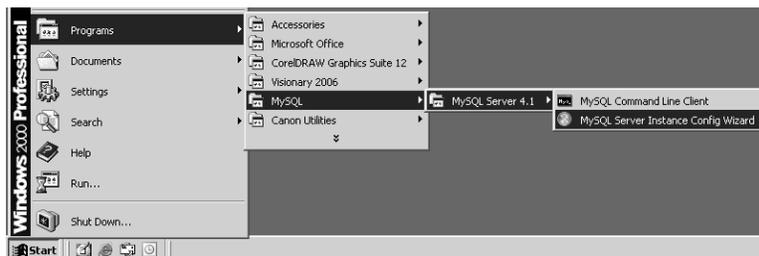
Step 5: Click [Start] at the bottom left of your computer screen.

Step 6: Click [Programs].

Step 7: Click [MySQL].

Step 7.1: Click [MySQL Server 4.1].

Step 7.2: Click [MySQL Server Instance Config Wizard]

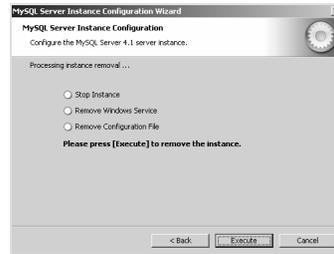


Step 8: Click [Next] on the "Welcome to the MySQL Server Instance

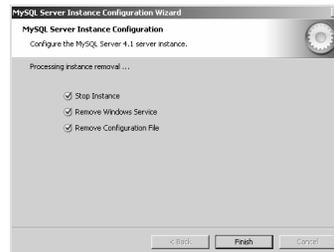
Configuration Wizard 1.0.4” page.

Step 9: Click the “Remove Instance” circle on the next screen.

Step 10: Click [Execute].



Step 11: Click [Finish].



Step 12: Click [Start] at the bottom left of your computer screen.

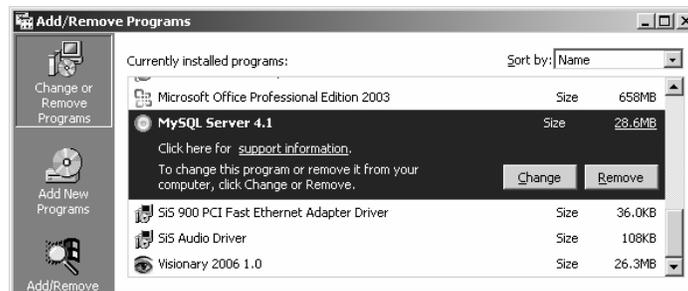
Step 13: Click [Settings].

Step 14: Click [Control Panel].

Step 15: Double click the “Add/Remove Programs” icon.

Step 16: Select the “MySQL Server 4.1” row.

Step 16.1: Click [Remove].



Step 17: Click [Yes].

Step 18: Select the “Microsoft .NET Framework 1.1” row.

Step 18.1: Click [Remove].

Step 19: Click [Yes].

Step 20: Double click the “My Computer” icon on your desktop screen.

Step 20.1: Double click the “Program Files” icon.

Step 20.2: Click the “MySQL” icon. Delete the “MySQL” file.



Step 20.3: Click [Yes].



Step 21: Close all open screens and restart your computer.

Software Troubleshooting

Question: I can't sign in with my User ID and password.

Solution: Have your administrator sign in to the Visionary program. Select Configuration > Users. Make sure the "Active?" box in the upper right side of the screen is checked. See page 17 for more information.

Question: I forgot my password, how can I sign in?

Solution: Have your administrator sign in to the Visionary program. Select Configuration > Users. In the "Security Information" row, enter a new password and confirm the new password. See page 19 for more information.

Question: My report does not show up when I click [View Report]; then the Visionary program closes.

Solution: Reports large in size can use a lot of memory. If there is not enough room on your computer for the file size, the report can not open. To alleviate this problem, increase the memory space on your computer and use a Windows version higher than Windows98.

Question: My program stops working immediately after importing tables or restoring a database.

Solution: A faulty table or database may have been imported. If the imported file had an opportunity to be altered and the changed information is not recognized by the main database, your main database may fail.

Question: I can not use [Occlude] or [Head Sensor].

Solution: Check to make sure your Screener is connected. These options are not available if the Screener is not connected.

Question: I am using a USB connection and running Windows 2000. The software is not recognizing the Screener.

Solution: Disconnect and reconnect the USB to your Vision Screener. Leave the Vision Screener on during this process. If your problem still exists contact Keystone View at 866.574.5375.

Question: My computer recognizes my Screener, but all Screener functions are not operating correctly.

Solution: Completely close the Visionary program. Turn off your Vision Screener. Turn on your Vision Screener. Open the Visionary program.

Question: My company logo will not open when I try to add or change the logo for my reports.

Solution: Logos more than one megabyte in size are not supported.

Question: I have read the manual and troubleshooting section and I still have a problem.

Solution: Completely exit out of the Visionary program using Test > Exit, or clicking the "x" at the upper right corner of the main screen. Login again. If your problem still exists contact Keystone View at 866.574.5375.

Vision Terms Glossary

Accommodation: The power to adjust the focus of the eyes for seeing objects distinctly at different distances.

Acuity, visual: Sharpness of vision. Ability to distinguish detail.

Aniseikonia - Aniseikonia is a condition where the image seen by one eye is a different size and shape than the image seen by the other eye.

Amblyopia - Sometimes referred to as "lazy eye", amblyopia is decreased vision in one or both eyes not caused by anatomical damage. Vision therapy often is used to treat amblyopia, since the condition is usually uncorrectable by optical means (e.g. eyeglasses).

Asthenopia - Vague eye discomfort arising from use of the eyes; may consist of eyestrain, headache, and/or brow ache. May be related to uncorrected refractive error or poor fusional amplitudes.

Astigmatism - a common condition, often occurring with near-sightedness or far-sightedness, where all of the rays of light entering the eye do not focus on the same plane, resulting in out of focus vision. The cause is unknown. A minor degree of astigmatism is considered normal and does not need correction.

Binocular: Using two eyes simultaneously.

Binocular Vision: The ability to use the two eyes simultaneously to focus on the same object and fuse two images into a single image.

Color blindness - an inherited condition most commonly seen in men and with the colors red and green. It is caused by a deficiency of certain "cones", or color detectors, in the eye. Although there is no cure, this condition does not significantly impact most day to day vision functions.

Convergence - the inward movement of eyes toward each other.

Depth perception - or stereopsis - is how a person judges how far away an object is from him/her, combining such factors as the apparent size of the object, its apparent rate of motion, the object's height in the field of vision, the image's clarity and various shadows.

Diplopia - commonly known as "double vision," when a person sees two images of an object instead of one. Binocular diplopia - double vision in both eyes - is caused by a misalignment of the eyes and is often treated with vision therapy. Monocular diplopia - double vision in only one eye - can be caused by factors including astigmatism, dry eye and retinal problems.

Esophoria - commonly referred to as "being cross-eyed" or under convergence - occurs when the two eyes do not aim simultaneously at the same object and instead point in different directions - in this case inward. Esophoria impacts binocular vision - the ability of both eyes to work together - and depth perception.

Exophoria - commonly referred to as "being wall-eyed" or Over convergence - occurs when the two eyes do not aim simultaneously at the same object and instead point in different directions - in this case outward. Esophoria impacts binocular vision - the ability of both eyes to work together - and depth perception.

Far Point: 20 feet (6 meters) to infinity.

Farsightedness - or hyperopia - occurs when light rays focus behind a person's retina, as opposed to directly on it. A farsighted person can see distant objects clearly but has difficulty seeing objects close by.

Fusion - the term that defines how well both eyes work together to combine the images each see into one clear, coherent joined image.

Hemianopsia - a non-seeing area in the right or left half of the visual field, sometimes referred to as a "blind spot."

Heterophoria - a squint due to weak eye muscles.

Hyperopia - or **farsightedness** - occurs when light rays focus behind a person's retina, as opposed to directly on it. A farsighted person can see distant objects clearly but has difficulty seeing objects close by.

Ishihara test - A test that screens individuals for color blindness.

Monocular: Pertaining to one eye.

Macular suppression - the subconscious inhibition of an eye's retinal image - often as a mechanism to avoid double vision. "Macular" refers to the central cornea area of the eye.

Myopia - or **nearsightedness** - occurs when light rays focus in front of a person's retina, as opposed to directly on it. A nearsighted person can see objects close to them clearly but has difficulty seeing objects that are far away.

Near-sightedness - or myopia - occurs when light rays focus in front of a person's retina, as opposed to directly on it. A nearsighted person can see objects close to them clearly but has difficulty seeing objects that are far away.

Near Point: The average reading distance, 14 to 16 inches.

Occluders - any device used by a vision health professional to temporarily obscure vision in one or both eyes while testing eye functions.

Peripheral vision - refers to the areas at the edges of the vision field - what a person sees "out of the corner of their eyes." Loss of peripheral vision - often called "tunnel vision" - can be caused by stroke, glaucoma, migraine headaches or retinal damage.

Phoria - Phoria refers to the "resting" position of your eyes - where your eyes will focus when not fixed on a specific object. (See esophoria and exophoria)

Presbyopia - the diminished ability of the eye to focus due to age. It is usually seen in individuals 45 years and older.

Retinal rivalry - the simultaneous transmission of incompatible images from each eye.

Scotomas - Commonly known as "blind spots", scotomas are non-seeing areas within the visual field that can be caused by retinal or other visual pathway damage.

Sloan letter test - The Sloan Letter Test is a common vision acuity test that uses the following ten letters: C, D, H, K, N, O, R, S, V, Z.

Stereoscope - an instrument that presents a 2D picture in such a way to produce the semblance of solidity and depth, used to test depth perception and binocular vision (how well both eyes work together). There are three kinds of stereoscopes - reflecting, refracting and telebinocular.

Stereotarget: A pair of photographs or reproductions mounted in an instrument designed to present each eye with a separate image.

Strabismus - or "crossed eyes" - is a condition where a person cannot correctly align both of his/her eyes - one or both eyes turn up, down, in or out. To correct for the double vision that results from this, people with strabismus often "suppress" the visual input from one of the eyes, causing the non-suppressed eye being stronger than the suppressed one.

Suppression - the subconscious inhibition of an eye's retinal image - often as a mechanism to avoid double vision.

Vision Screening: A test for many facets of functional vision, designed to identify subjects who can benefit from an examination by a vision specialist.

Vision Specialist: Ophthalmologist or Optometrist.



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