The CVS-I
Computerized Vision Screener
for occupational Health professionals

Featuring database capabilities for more than 100,000 client/patient records

Keystone View presents – The CVS-I Computerized Vision Screener – bringing convenience to vision testing. It automates the screening process. Then stores results in an easy- to-access client/patient database, from which reports can be easily generated. Tracking the vision history of an individual with the CVS-I is fast and effortless.

Imagine no more chaotic piles of paperwork, no more frustrations when a routine eye exam runs behind schedule. Keystone View's new visionary software combined with a classic vision screener, is the first product to utilize the company's new testing software. The result will provide schools, clinics and occupational health professionals with quick, comprehensive eye exam control and record-keeping capabilities.

The unique program is compatible with most PC's and laptop computers. The CVS-I automates the testing process using a standardized script. Allowing control of the test instrument remotely from the computer work station.

> For recording results, Visionary Testing software lets you customize a database to your specific needs, so you can easily access, analyze and report your results the way you want to see them.
>
> Gifford Mast – President

Unlike an internet based or completely computerized vision screener, the CVS-I screening unit illuminates test targets with 5000K LED - mimicking real sunlight- rather than asking clients to view targets on a back lit, flickering computer screen which only represents how people see images on a monitor.

The CVS-I is also fully functional in the event of a computer failure. Should your computer fail, simply connect the remote hand control unit and continue testing with the paper recording forms supplied.

The CVS-I Instrument

The CVS-I is designed for both standardized and completely confidential testing. Targets are enclosed in the unit, so subjects cannot see or study them in advance. Internal target illumination ensures the consistency of operating conditions. The unit pivots through a 63-degree arc to adjust to the eye level of any individual.

The CVS-I has been specifically designed to accommodate all types of eyeglass frames. Its "closed" configuration eliminates outside light and distractions during testing.

The standardized screening incorporated into the CVS-I permits screening of 10 vision functions in only 3-5 minutes. These include acuity (near, far, intermediate), color perception, low light/night vision, peripheral vision, stereopsis and binocularity (fusion, phoria, suppression).

The user friendly design of the CVS-I means that it can be operated by visual health professionals as well as laypersons. No formal training is required to operate the CVS-I successfully and accurately.

Features

Bifocal lens system: Far and near test distances are created using double-segment ,hard resin lenses. Viewed through the upper segments, test targets appear at the precise equivalent of six meters (20ft). When seen through the lower segments the targets appear at the usual 16 inches (40cm) reading distance. Lens segments not in use at a given time are mechanically occluded.

Supplemental lens feature: Mounted inside the instrument, the 26 inch (66 cm) distance lens assembly is positioned by pressing the integral plunger. The plunger is notched so the lens assembly will lock into position. To release, merely press and move the plunger forward.

The CVS-I Advantage

The CVS-I is designed for occupational health professionals, educational facilities, and vision professionals with large patient numbers.

Precision – The CVS– I replicates "real life" vision by using reflective light provided by two 100,000 hour bright white (5000K) light emitting diodes. This ensures Keystone View's promise of maintenance free instruments. LED are also environmentally friendly as no mercury, filaments or harmful waste is produced in or from their design.

Comprehensive – In addition to providing database capabilities for 100,000 client records, the CVS-I also screens for ten different vision conditions including acuity (far and near points), depth perception, peripheral vision, color perception and binocularity (fusion, suppression, phoria)

User friendly design & quick testing – Thanks to the unique Visionary Software, tests can be administered and recorded in less than five minutes. All test questions are displayed on screen to ensure standardization. All of the acceptable answers that can be given are also on the same screen. Results can be recorded quickly and accurately with a simple click of the mouse, eliminating the need for time consuming transcriptions or post test data entry. The completed test results can be printed to maintain hard copy files. The user friendly design ensures minimal examiner training is required.

Unique Visionary Testing Software – The Visionary Software is easy to install. Simply insert the CD into the CD Rom drive and follow the on screen directions. The software is compatible with Microsoft Windows 9X/2000/XP. The system requires 64MB RAM.

Lightweight & fully Portable - The classic Keystone Vision screener is lightweight and fully portable weighing less than 11 pounds.

Peripheral vision test: Light emitting diodes are located between the lenses and recessed in the temple areas of the headrest. These measure the horizontal peripheral vision of the eyes individually.

Low – Light Night Vision tests: The CVS-I includes the facility to test vision under the conditions of low lighting, stimulating the conditions of driving at night.

Storage, transport and protection

To prolong the life and functionality of the CVS-I test instrument, Keystone View recommends storing and transporting it in its specially-designed carrying case. (Product 1111)

Keystone View Visionary Software

Keystone View understands that the time consuming transcriptions and post test- data entry associated with vision screening, was a major customer concern. The new visionary software was designed with database capabilities to reduce the administration involved in the process of vision screening.

The Test Screens

Top Screen The test screen is split into three distinct parts. The top third of the screen displays the examiner questions. This allows the examiner to provide a standardized test as each test subject is asked the identical set of questions. The questions for the examiner are written in blue for ease of identification.

Middle Screen The potential test answers are presented in the middle of the screen and outlined in a light grey box. The three columns display the acceptable answers that may be given. A non response field is also included. The correct answer is highlighted by clicking on the empty field next to the response indicated. All the answers are color coded. Green signifies correct answers, blue signifies borderline Patient results and red indicates that the examinee did not pass the particular test slide viewed.

Bottom Screen The bottom of the screen is home to the operation buttons: left occlude, right occlude, reset occlude, next and cancel.

Directly underneath these, written in bold black text, are the modes of operation. This bar tells you what mode the vision screener is currently operating in; examples being, what slide the patient is currently viewing, if the left or right occlude mode is 'on' or 'off', the illumination level and the test distance currently in use (near, far or intermediate).

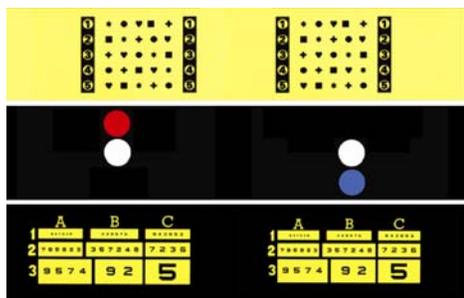### Keystone View

Excellence in Vision Testing

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 life activities, including driving.

Keystone View understands this and, for more than eight decades, has led the industry in the development and production of vision testing and therapy products for optometrists, schools, private industry and licensing agencies.

You can place orders by phone, email, fax and online using our web site simply go to www.keystoneview.com where all of our products are pictured with the key features and, benefits of use listed. There is also a useful glossary containing key terms and phrases. Product manuals can also be downloaded directly from the site.

Screening Tests for the CVS-I

Keystone View can substitute custom-produced targets for any of the standard tests described below.

Acuity Right Eye – far and near
The acuity (fineness of visual discrimination) of the right eye is checked while the left eye is open and seeing. Results are calibrated at snellen values from 20/200 to 20/20

Acuity Left Eye – far and near
Similar to the preceding test, this target measures the visual acuity of the left eye while the right eye is open and seeing. Snellen values from 20/200 to 20/20 are provided

Acuity Binocular – At far, intermediate, night and near
This acuity test presents the same number groups to both eyes simultaneously, it provides nine ratings ranging from 20/200 to 20/20.
All three acuity targets employ modern sloan-type numerals without serifs (finishing strokes)

Phoria (eye co-ordination) – far and near
Are the eyes balanced to work together with comfort and efficiency? This target measures vertical and lateral phorias (the tendency of an eye to turn in, out, up, or down) in prism diopters.

Fusion – far and near
This fusion test provides a check for one of the basics of visual efficiency: Whether the images seen by the two eyes merge into a single integrated image. Two balls are presented to each eye. They should fuse into a single column of three balls.

Stereopsis – far and near
This 3-D target measures stereopsis (depth perception), due solely to the coordinated use of the eyes. The subject must name the symbol on each line that stands out from the others. A correct answer on row four shows 75% stereopsis.

Color Perception – Two targets at Far
Each target presents numbers "hidden" in pseudo-isochromatic symbols. They indicate severe (red/green)   mild (blue/violet) deficiency.

The VS-II Universal Vision Screener
Product: 1135B
The VS-II Universal screener is truly universal as it employs non-language tests. The VS-II Universal is therefore, an essential tool in vision testing programs for pre school children and individuals with learning difficulties.   The instrument is operated by remote control. The remote control unit permits the complete control and command of all test operations including advancing stereo tests and the selection of near or far test distances.

VS-II Standard Vision Screener
Product: 1135A
The VS-II standard is a precise optical screening system. The user friendly design ensures unparalleled ease and reliability of operation guaranteeing accurate and quick results. No formal training is required to administer the tests, which significantly reduces examining costs while monitoring the vision health of employees. The VS-II tests for: Acuity (Far, Intermediate & Near points), Fusion, Phoria, Stereopsis and Color Perception as well as Horizontal Peripheral Vision.

DVS-GT Drivers Vision Screener
Product: 1138
The DVS-GT expertly integrates new glare recovery and contrast sensitivity screening features with the solid engineering drivers licensing agencies have trusted for more than 40 years. The DVS-GT can be used to test for: Acuity, Contrast Sensitivity, Color Recognition, Depth perception, Glare Recovery, Phoria, Sign Recognition, Horizontal Field Testing and Low-Light Night vision.

All Keystone View products are covered by a full money back guarantee. Providing goods are returned within 30 days of receipt. The guarantee is not applicable to expendable supplies including books, manuals & recording forms when ordered separately.

Learn more by visiting our online product catalog or the new online Knowledge Center for occupational health professionals at:

http://www.keystoneview.com

Specifications

System Requirements
- IBM compatible PC, 486 or higher processor (Pentium recommended)
- 64 MB of RAM (128MB recommended)
- Hard disk with 20 MB of free space (40 MB recommended)
- CD Rom (for installation only)
- Windows 9x/2000/XP

Test Stimuli Targets include numerals, a red ball in symbols, tests are illuminated by LED lamps.

Acuity Measurement The CVS-I provides Snellen values at distances ranging from 20/200 to 20/20.

Monitoring Indicators on the tool bar running along the bottom of the monitor display the specific test being presented. Correct answers are given on the same user screen.

Electrical Characteristics The CVS-I operates from standard 110 or 220 volt a.c. power with UL approved 12 volt-transformer.

Dimensions/Weight Only 25 cm x 39 x 17 cm (10″ x 15 ½ x 7″) The CVS-I is compact and completely self-contained. When not in use, a magnetic catch holds the unit closed. Total weight is less than 5 kg (11 pounds).

Keystone View
Excellence in Vision Testing

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