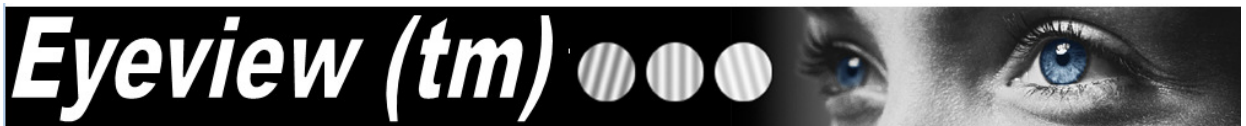


EYEVIEW™ FUNCTIONAL VISION ANALYSIS SOFTWARE  
*Software for use with the Functional Vision Analyzer*

INSTRUCTION MANUAL



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# Functional Vision Analysis Software EyeView™

## Introduction

### Purpose

To allow doctors and clinicians to digitally record patient data and responses from the FACT (contrast sensitivity), ETDRS (visual acuity) Color Perception and Depth Perception tests.

### Definitions

|                               |   |
|-------------------------------|---|
| Acuity                        | The ability to identify the smallest black and white details of an image. Does not test sensitivity to contrast for a range of sizes. It tests only the ability to resolve high contrast black-on-white letters                                   |
| Contrast                      | The difference in brightness levels from one part of an image to another. A white cat on a white snow bank is low contrast; a black cat on a white snow bank is high contrast.  |
| Contrast Sensitivity Function | Curve that describes a person's sensitivity to contrast as a function of size. Used to help detect optical problems, as well as diagnose and track certain visual disorders. Determines visual capability to detect and identify everyday objects |
| ETDRS Visual Acuity           | Special visual acuity charts used in clinical studies.  |

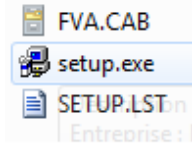
### Minimum System Requirements for EyeView® software

- PC Platform (Macintosh not currently supported)
- Windows 7 or above
- VGA color monitor

## Setup

To install the EyeView™ Functional Vision Analysis Software:

1. Download EyeViewFVA Setup zip file
2. Unzip this file EyeViewFVA.zip to a local directory (Desktop for instance)



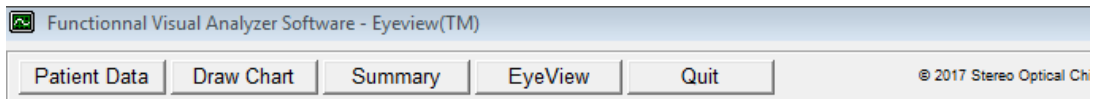
3. This directory looks like
4. Double click the file "setup.exe"
5. A message box labeled "Install" should appear with the following message: "Copying files, please stand by". This process may take several seconds.
6. Once files are copied, the screen should turn blue and a message box should appear with the following message: "Welcome to the Functional Vision Analyzer installation program".
7. Click "OK" to continue installation.
8. The next message box contains a button with an image of a computer; click this button to continue installation.
9. You will then be asked to "Choose Program Group Or Startup menu". Ensure that "EyeViewFVA" is selected in both fields. Click "Continue"
10. Setup will begin. The program files will be installed in the following directory, C:\Program Files\EyeViewFVA.
11. Once setup is complete, a message box will appear indicating, "EyeViewFVA setup was completed successfully". Click "OK"
12. Setup is now complete.
13. Please note that the screen area must be set to 1024 x 768 pixels or higher in order to view the screen properly.

For quick "EyeViewFVA" program access, create a "Shortcut to EyeView FVA" icon on the desktop. Double-click this icon to begin the program.

## Procedures

### Software Launch

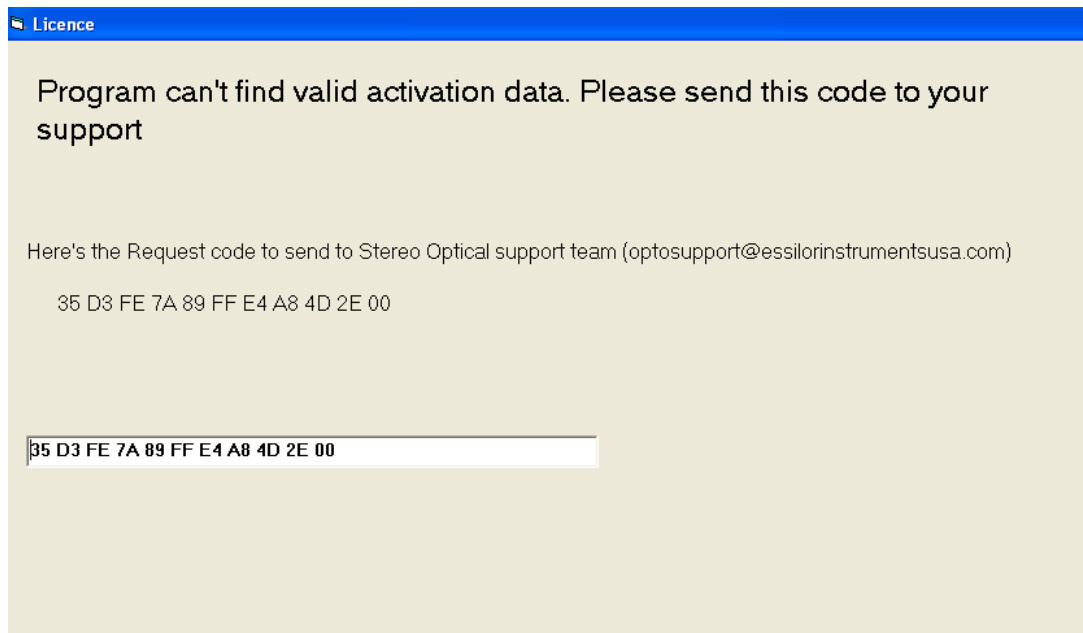
- Power on the computer.
- Choose the "Shortcut EyeView FVA" icon from the desktop to start the program.
- The Eye View FVA screen should appear with a message that states "Program Loading..."
- First launch will ask you activation code see
- Next, the "Patient Data" screen will appear and information pertaining to the patient and testing conditions can be entered.



## PATIENT DATA

### Activation Process

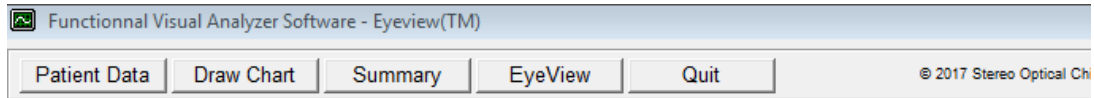
When you first start the application, it gives you an request code and it asks you an activation code.



You can copy the code and send it to [optosupport@essilorinstrumentsusa.com](mailto:optosupport@essilorinstrumentsusa.com)).

Our support team will send you back a code that you can key in on bottom edit box

## Software Overview



## PATIENT DATA

Each screen contains a taskbar at the top with the following buttons:

- "Patient Data" takes the user to the Patient Data screen.
- "Draw Chart" allows the user to plot the contrast sensitivity scores for one or multiple testing sessions of the selected patient.
- "Summary" refers to the Session Summary screen, which allows the user to view the summary results of the selected patient.
- "EyeView" takes the user to the EyeView™ selection screen for the selected patient. The user can then highlight the test session to be viewed and click "ok". EyeView™ will process only one test session at once. Therefore if two sessions are highlighted, the session that appears first in the list will be used.
- "Quit" will quit the program entirely. To restart the program, simply choose the "Shortcut to EyeView FVA" icon from the desktop.

### Patient Data

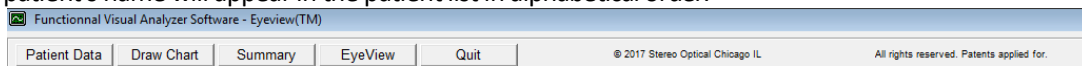
#### Testing a new patient

The Patient Data screen allows both existing and new patients to be tested.

For demonstration purposes, sample data has been entered for two FACT tests and one ETDRS test.

Enter the patient's full name into the system (the last name is the only required field). Optional information includes the patient's date of birth, ID number, examiner name and comments such as "wears contacts."

Once the patient data has been entered, choose "Save New Patient Data." This will save the information to the database. The patient's information must be saved in order to save test results. Once saved, the patient's name will appear in the patient list in alphabetical order.



## PATIENT DATA

### New Patient

Last  First  Middle Initial

DOB  ID #  Examiner

Comments

Enter new Patient information and click Save New Patient Data

Save New Patient Data

Export Data to File

### Select Patient

Good Visual Acuity Example, . . . .  
High Contrast Sensitivity Example, . . . .  
Low Contrast Sensitivity Example, . . . .

Locate patient's name in the box to the left and click select

Review Patient Data

After saving it appears in the list :

## PATIENT DATA

### New Patient

Last  First  Middle Initial

DOB  ID #  Examiner

Comments

Enter new Patient information and click Save New Patient Data

Save New Patient Data

Export Data to File

### Select Patient

Good Visual Acuity Example, . . . . .

High Contrast Sensitivity Example, . . . . .

Low Contrast Sensitivity Example, . . . . .

**SMITH, John, 12/05/1965, He's wearing glasses**

Locate patient's name in the box to the left and click select

Review Patient Data

## Testing an existing patient

1. Highlight the patient's name on the list. The selected patient should appear as the "Test Subject" located under the patient list.

## Perfoming the test

Once the new patient information is saved, highlight the patient's name on the list. The selected patient should appear as the "Test Subject" located under the patient list.

### Test Subject: **SMITH, John**

|  |   |  |
|--|---|--|
| <p><b>Select Test</b> (Dial Setting in Parenthesis)</p> <p><input type="radio"/> Acuity - Far - Left Eye (1)      <input checked="" type="radio"/> FACT (5 thru 9)</p> <p><input type="radio"/> Acuity - Far - Right Eye (1)      <input type="radio"/> Depth Perception - Far Stereo (10)</p> <p><input type="radio"/> Acuity - Far - Binocular (2)      <input type="radio"/> Color Perception - Far (11)</p> <p><input type="radio"/> Acuity - Near - Left Eye (3)      <input type="radio"/> Potential Acuity - Far - Left Eye (12)</p> <p><input type="radio"/> Acuity - Near - Right Eye (3)      <input type="radio"/> Potential Acuity - Far - Right Eye (12)</p> <p><input type="radio"/> Acuity - Near - Binocular (4)</p> | <p><b>Select Illumination</b></p> <p><input checked="" type="radio"/> Photopic: 85 cd/M2</p> <p><input type="radio"/> Mesopic: 3 cd/M2</p>                  | <p><b>Select Eye</b></p> <p><input type="radio"/> Right Eye (OD)</p> <p><input type="radio"/> Left Eye (OS)</p> <p><input checked="" type="radio"/> Both Eyes (OU)</p> |
|  | <p><b>Select Glare</b></p> <p><input checked="" type="radio"/> No Glare _____</p> <p><input type="radio"/> Level 1</p> <p><input type="radio"/> Level 2</p> | <p><input checked="" type="radio"/> With Correction</p> <p><input type="radio"/> No Correction</p>   |

1. Several testing options appear under the patient list including luminance and glare conditions, test type (FACT or Acuity ETDRS Color, Depth perception), Eye and vision correction.
2. Configure the FVA accordingly (Eye selection, Glare, Illumination & Test number. For instance, in the picture you will record FACT result (Dial 5 to 9), on photopic conditions without glare for both eye and patient has correction.
3. Choose the appropriate testing conditions and select  to record test result.
4. The user will be taken to the score form for the chosen test.

## Reviewing pre existing test or Patient data

Click on  to modify patient data or review pre existing test on this patient.

## FACT Test Contrast Sensitivity

The order of testing will vary depending upon the patient or the clinical trial. A suggested test order would involve first testing the right eye, left eye, then both eyes beginning with the higher light level (Photopic 85 cd/M<sup>2</sup>) and proceeding to the lower light level (Mesopic 3 cd/Ma). Consider testing with glare last as it will temporarily bleach the patient's eyes.

**Test Subject: SMITH, John**

|   |  |  |
|---|--|--|
| Select Test (Dial Setting in Parenthesis)<br><input type="radio"/> Acuity - Far - Left Eye (1) <input checked="" type="radio"/> FACT (5 thru 9)<br><input type="radio"/> Acuity - Far - Right Eye (1) <input type="radio"/> Depth Perception - Far Stereo (10)<br><input type="radio"/> Acuity - Far - Binocular (2) <input type="radio"/> Color Perception - Far (11)<br><input type="radio"/> Acuity - Near - Left Eye (3) <input type="radio"/> Potential Acuity - Far - Left Eye (12)<br><input type="radio"/> Acuity - Near - Right Eye (3) <input type="radio"/> Potential Acuity - Far - Right Eye (12)<br><input type="radio"/> Acuity - Near - Binocular (4) | Select Illumination<br><input checked="" type="radio"/> Photopic: 85 cd/M2<br><input type="radio"/> Mesopic: 3 cd/M2 | Select Eye<br><input checked="" type="radio"/> Right Eye (OD)<br><input type="radio"/> Left Eye (OS)<br><input type="radio"/> Both Eyes (OU) |
| Select Glare<br><input checked="" type="radio"/> No Glare<br><input type="radio"/> Standard   |  |  |
| Select test type, conditions, and eye(s) to be tested, then click Test Patient to begin testing   |  |  |
| <input type="radio"/> With Correction<br><input type="radio"/> No Correction  |  |  |
| <input type="button" value="Test Patient"/>   |  |  |

Score results accordingly for visual acuity (ETDRS) and Contrast Sensitivity Testing (FACT):

## FACT Contrast Sensitivity Testing

|              |            |         |         |      |                                  |   |
|--------------|------------|---------|---------|------|----------------------------------|---|
| Patient Data | Draw Chart | Summary | EyeView | Quit | © 2017 Stereo Optical Chicago IL | All rights reserved. Patents applied for. |
|--------------|------------|---------|---------|------|----------------------------------|---|

### FACT SCORE

Patient: SMITH, John  
 DOB: 12/05/1965  
 ID#:

Test Date: 11/17/2017 7:22:38  
 Eye: OU  
 Correction: Yes  
 Luminance: 85 cd/square  
 Glare: No  
 Examiner:

#### Functional Acuity Contrast Test (FACT)

|   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Patch Score | CS Score | Patch Score | CS Score | Patch Score | CS Score |
|---|---|---|---|---|---|---|---|---|---|-------------|----------|-------------|----------|-------------|----------|
| <input checked="" type="checkbox"/> A (5) | L | U | R | U | L | R | L | U | R | 0           | 0        |             |          |             |          |
| <input checked="" type="checkbox"/> B (6) | R | L | R | L | R | U | L | R | U | 0           | 0        |             |          |             |          |
| <input checked="" type="checkbox"/> C (7) | U | R | L | U | R | U | R | L | R | 0           | 0        |             |          |             |          |
| <input checked="" type="checkbox"/> D (8) | L | R | U | R | U | L | U | R | L | 0           | 0        |             |          |             |          |
| <input checked="" type="checkbox"/> E (9) | U | L | R | U | L | R | U | R | U | 0           | 0        |             |          |             |          |

Measure 1

Blue - Patient correctly identified Patch
Gray - Patient DID NOT identify Patch

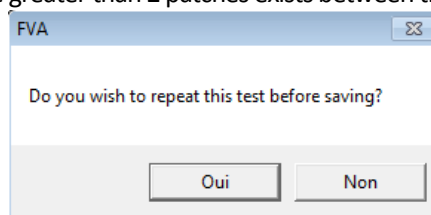
Comments:

- Use the FACT chart to test the right eye, left eye, and both eyes. On the FACT Score Form, ensure that the appropriate testing condition (Photopic or Mesopic; glare — none or level 1 or 2) has been selected.
- If not, choose "Patient Data" and select the appropriate conditions on the Patient Data screen. Then choose "Test Patient" to return to the score form.
- The patient should read across each line, starting with the slide for row A and indicate the direction of each grating.
- The answer guide is as follows: **R** = Right, **U** = Up, **L** = Left
- Click in the circle to the left of the testing row to select that row. The dial number indicates where to set the dial on the tester in order to view that slide. To score the patient, click on the answers that are correct. A blue patch indicates a correct answer. Clicking on a blue patch will turn it gray indicating an incorrect answer. To correct a mistake in scoring, simply click on the patch again to



change the color. You will need to select a row in order to score or make changes within that row.

6. As a shortcut, the "All Blue" button under the FACT chart can be selected to automatically select all answers in that row as correct. The "All Gray" button can be selected to automatically select all answers in that row as incorrect.
7. Once a measure is completed, select "Score Test". The patch and the contrast sensitivity scores will appear in the columns to the right. The measure is labeled underneath the columns.
8. After scoring, select the "Save" button to retain test results. Once the scores have been saved, the user will be asked if they wish to repeat the measure. This allows the user to repeat the FACT test under the same luminance conditions. At least two measures should be taken for each patient for each luminance condition although the program will allow up to 3 measures to be completed.
9. If a patch difference greater than 2 patches exists between the measures, the user will be asked if



they wish to retest.

10. If the user selects "Yes", another measure will be taken and the inconsistent measure will be deleted. If the user selects "No", the scores will need to be saved by selecting "Save". Multiple measures should be within 2 patch scores and this function ensures that any wide difference between measures is intentional.
11. When the FACT testing is completed, the measures will be averaged and the results displayed on the Session Summary screen.
12. A Session Summary report can be printed from this page either at the time of testing or the user may come back to this screen at any time by selecting "Summary." Choose the desired test results by selecting the test date from the pull-down menu.
13. Please note that if a patient is tested with less than 3 measures and then tested again under the same conditions within a 24-hour period, one testing parameter must be changed. It is recommended that this modified parameter be simple such as the removal or addition of the middle initial.
14. You then can access result on Summary, print a chart of this result in "Draw Chart". If you want to evaluate impact of this result on vision click on EyeView™ button.

## Visual Acuity (ETDRS) Testing

Ensure that the appropriate luminance condition (Photopic or Mesopic; with or without glare) has been selected and that the eye being tested is correct.

If not, choose "Patient Data" and select the appropriate conditions on the Patient Data screen. Then choose "Test Patient" to return to the score form. Check that Data on the right side are correct then configure

**ETDRS**

Selects All Above

Selects Row

|   |   |
|---|---|
| ^ | > |
| ^ | > |
| ^ | > |
| ^ | > |
| ^ | > |
| ^ | > |
| ^ | > |

**ETDRS Acuity - Far - Left Eye**

|           | Snellen 20 Feet / X | No. of Letters | Line No. | Patient: SMITH, John    |
|-----------|---------------------|----------------|----------|-------------------------|
| D R C H V | Line Score (160)    | 0              | 5        | DOB: 12/5/1965          |
| C K N R D | Line Score (125)    | 0              | 6        | ID#:                    |
| S H Z D O | Line Score (100)    | 0              | 7        | Test Date: 11/19/2017   |
| R O D V C | Line Score (80)     | 0              | 8        | Eye: OS                 |
| K R H S D | Line Score (63)     | 0              | 9        | Correction: Yes         |
| C O S Z H | Line Score (50)     | 0              | 10       | Luminance: 85 cd/square |
| Z C V O R | Line Score (40)     | 0              | 11       | Glare: No Glare         |
|           |                     |                |          | Examiner: Jane Doe OD   |

Have the patient read the smallest line of letters possible.

If they miss any letters on this row, have them read the line above it. Repeat this step until they are able to read an entire line correctly.

If they read the line correctly on the first try, encourage them to read the line below that and, if appropriate, the line below that, etc.

To score the patient's test performance, click on the answers that are correct. A blue patch indicates a correct answer.

For incorrect answers, click on a blue patch to turn it gray as a gray patch indicates an incorrect answer. To correct a mistake in scoring, simply click on the patch again to change the color.

**ETDRS Near- Right Eye**

|   |   |   |   |   |
|---|---|---|---|---|
| S | C | N | Z | V |
| C | S | H | D | N |
| O | N | K | C | H |
| C | V | Z | H | O |
| V | C | H | O | N |
| R | D | C | Z | K |
| H | O | S | D | R |
| R | S | O | V | H |
| N | O | K | D | R |
| Z | H | S | O | K |
| C | D | K | V | H |
| H | K | D | C | O |

Score Test

Once a measure is completed, select Score Test button. The line score, correct letter ID score, and Snellen visual acuity scores will be calculated and displayed.

|   |   |   |   |   |                   |    |    |
|---|---|---|---|---|-------------------|----|----|
| D | R | C | H | V | Line Score (160)  | 5  | 5  |
| C | K | N | R | D | Line Score (125)  | 10 | 6  |
| S | H | Z | D | O | Line Score (100)  | 15 | 7  |
| R | O | D | V | C | Line Score (80)   | 20 | 8  |
| K | R | H | S | D | Line Score (63)   | 25 | 9  |
| C | O | S | Z | H | Line Score (50)   | 30 | 10 |
| Z | C | V | O | R | Line Score (40)   | 35 | 11 |
| C | R | D | V | H | Line Score (32)   | 40 | 12 |
| D | C | V | H | S | Line Score (25)   | 43 | 13 |
| K | V | S | C | R | Line Score (20)   | 43 | 14 |
| O | C | N | K | D | Line Score (16)   | 43 | 15 |
| D | K | C | V | Z | Line Score (12.5) | 43 | 16 |

Not Correctly Identified Letter  
 Did NOT Identify Letter

**Correct Letter ID Score** 43  
**Snellen Visual Acuity** 20/25-2

---

After scoring, select "Save" to retain test results.

## Depth Perception Testing

To activate depth perception testing select it on Patient data page & configure FVA accordingly (test 10, day illumination, no glare, Right & Left Eye activated on this example)

**Test Subject: SMITH, John**

Select Test (Dial Setting in Parenthesis)

Acuity - Far - Left Eye (1)     FACT (5 thru 9)

Acuity - Far - Right Eye (1)     Depth Perception - Far Stereo (10)

Acuity - Far - Binocular (2)     Color Perception - Far (11)

Acuity - Near - Left Eye (3)     Potential Acuity - Far - Left Eye (12)

Acuity - Near - Right Eye (3)     Potential Acuity - Far - Right Eye (12)

Acuity - Near - Binocular (4)

Select Illumination

Photopic: 85 cd/M2

Mesopic: 3 cd/M2

Select Eye

Right Eye (OD)

Left Eye (OS)

Both Eyes (OU)

Select Glare

No Glare

Level 1

Level 2

With Correction

No Correction

*Select test type, conditions, and eye(s) to be tested, then click Test Patient to begin testing*

Test Patient button brings you to the score page of Depth Perception test

### Depth Perception - Far

Dial At 10

Selects All Above

Selects Row

A

>

1  
Bottom

2  
Left

3  
Bottom

4  
Top

5  
Top

6  
Left

7  
Right

8  
Left

9  
Right

Patient: SMITH, John

DOB: 12/5/1965

ID#:

Test Date: 11/19/2017

Eye: OU

Correction: Yes

Luminance: 85 cd/square

Glare: No Glare

Examiner: Jane Doe OD

Number Correct \_\_\_\_\_

Seconds of Arc. \_\_\_\_\_

Blue - Patient Correctly Identified Target

Gray - Patient DID NOT Identify Target

Within each square are four circles. Have the patient look at each of the four circles and state which circle seems to be closest — top, bottom, left or right.

Click on the box to turn it blue which indicates a correct answer. A gray patch indicates an incorrect answer. To correct a mistake in scoring, simply click on the patch again to change the color. Continue until the patient gives up trying or makes two successive mistakes.

Once the patient has completed testing click on the "Score Test" button to show the number correct and the seconds of arc. After scoring, select the "Save" button to retain test results.

### Depth Perception - Far

Dial At 10

Selects All Above

Selects Row

A

>

1  
Bottom

2  
Left

3  
Bottom

4  
Top

5  
Top

6  
Left

7  
Right

8  
Left

9  
Right

Patient: SMITH, John

DOB: 12/5/1965

ID#:

Test Date: 11/19/2017

Eye: OU

Correction: Yes

Luminance: 85 cd/square

Glare: No Glare

Examiner: Jane Doe OD

Number Correct **5**

Seconds of Arc. **50**

## Color Perception Testing

On Patient Data page select the color perception, illumination, glare & click on Test patient. Configure FVA accordingly.

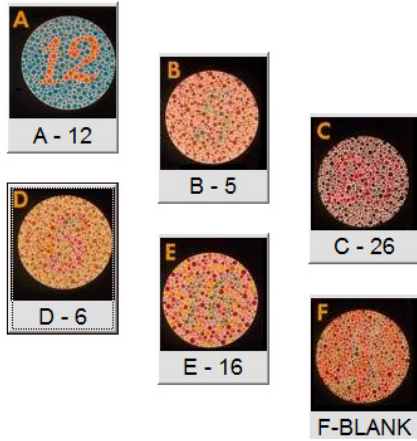
**Test Subject: SMITH, John**

|   |  |   |
|---|--|---|
| <p>Select Test (Dial Setting in Parenthesis)</p> <p><input type="radio"/> Acuity - Far - Left Eye (1)</p> <p><input type="radio"/> Acuity - Far - Right Eye (1)</p> <p><input type="radio"/> Acuity - Far - Binocular (2)</p> <p><input type="radio"/> Acuity - Near - Left Eye (3)</p> <p><input type="radio"/> Acuity - Near - Right Eye (3)</p> <p><input type="radio"/> Acuity - Near - Binocular (4)</p> <p><input type="radio"/> FACT (5 thru 9)</p> <p><input type="radio"/> Depth Perception - Far Stereo (10)</p> <p><input checked="" type="radio"/> Color Perception - Far (11)</p> <p><input type="radio"/> Potential Acuity - Far - Left Eye (12)</p> <p><input type="radio"/> Potential Acuity - Far - Right Eye (12)</p> | <p>Select Illumination</p> <p><input checked="" type="radio"/> Photopic: 85 cd/M2</p> <p><input type="radio"/> Mesopic: 3 cd/M2</p>            | <p>Select Eye</p> <p><input type="radio"/> Right Eye (OD)</p> <p><input type="radio"/> Left Eye (OS)</p> <p><input checked="" type="radio"/> Both Eyes (OU)</p> |
|   | <p>Select Glare</p> <p><input checked="" type="radio"/> No Glare</p> <p><input type="radio"/> Level 1</p> <p><input type="radio"/> Level 2</p> | <p><input checked="" type="radio"/> With Correction</p> <p><input type="radio"/> No Correction</p>  |

It brings you to this page

### Color Perception - Far

Dial At 11



Patient: SMITH, John

DOB: 12/5/1965

ID#:

Test Date: 11/19/2017

Eye: OU

Correction: Yes

Luminance: 85 cd/square

Glare: No Glare

Examiner: Jane Doe OD

Have the patient read the number(s) in each circle.

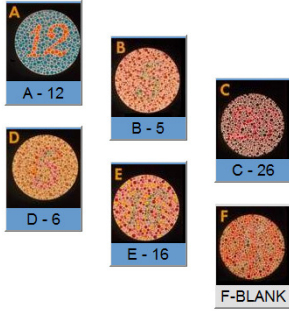
To score, click the appropriate box once for one correct number which will turn the gray section to blue indicating a correct response. If the patient gets the second digit correct, click again to change to green indicating both digits were correctly identified.

To correct a mistake in scoring, simply click on the patch again to change the color. A gray patch indicates an incorrect answer.

Click on Score Test to evaluate a global result. Click on Save when finish to retain the result.

# Color Perception - Far

Dial At 11



Patient: SMITH, John  
DOB: 12/5/1965  
ID#:  
Test Date: 11/19/2017  
Eye: OU  
Correction: Yes  
Luminance: 85 cd/square  
Glare: No Glare  
Examiner: Jane Doe OD

5 Number Correct

Color Perception - Far    A B C D E    Correct Patches

Blue - Patient Correctly Identified Target  
Gray - Patient DID NOT Identify Target

Score Test  
Save

## Review Data

On patient data page, you can select a patient and review its data. It brings you to this page :

### EDIT/REVIEW PATIENT

#### Patient

|                |   |   |
|----------------|---|---|
| Last           | <input type="text" value="SMITH"/>              |   |
| First          | <input type="text" value="John"/>               |   |
| Middle Initial | <input type="text"/>                            |   |
| DOB            | <input type="text" value="12/5/1965"/>          | <input type="button" value="Delete Patient"/> |
| ID#            | <input type="text"/>                            |   |
| Comments       | <input type="text" value="Progressive lenses"/> |   |

#### Exam(s)

| Date, Examiner, Eye, Correction, Illumination, Glare, Test Type, Results*, Comments                         |  |
|---|--|
| 11/19/2017 12:31:36 A, Jane Doe O, OU, Yes, 85 No Glare, FACT , 9 , 100, 5 , 40 , 7 , 90 , 5 , 30 , 7 , 33, | <i>Click on an exam to Review/Edit or Delete.</i><br><input type="button" value="Print List"/><br><input type="button" value="Review/Edit"/><br><input type="button" value="Delete Record"/> |
| 11/19/2017 12:31:36 A, Jane Doe O, OU, Yes, 85 No Glare, FACT , 6 , 36 , 7 , 80 , 6 , 64 , 7 , 60 , 5 , 17, |  |
| 11/19/2017 12:50:52 A, Jane Doe O, OS, Yes, 85 No Glare, ETDORS, 43, 20/25-2                                |  |
| 11/19/2017 1:18:35 AM, Jane Doe O, OD, Yes, 85 No Glare, ETDORS, 42, 20/32+2                                |  |
| 11/19/2017 1:18:51 AM, Jane Doe O, OU, Yes, 85 No Glare, ETDORS, 38, 20/32-2                                |  |
| 11/19/2017 1:19:48 AM, Jane Doe O, OU, Yes, 3 No Glare, ETDORS, 38, 20/32-2                                 |  |
| 11/19/2017 1:20:09 AM, Jane Doe O, OU, Yes, 3 Level 1, ETDORS, 43, 20/25-2                                  |  |
| 11/19/2017 1:20:37 AM, Jane Doe O, OU, Yes, 3 Level 2, ETDORS, 43, 20/25-2                                  |  |
| 11/19/2017 1:28:07 AM, Jane Doe O, OU, Yes, 85 No Glare, Depth, 5 , 50 Arc Sec                              |  |
| 11/19/2017 1:34:29 AM, Jane Doe O, OU, Yes, 85 No Glare, Color, 5 , A B C D E Correct                       |  |
|   |  |

\* Number correct, then Snellen Score or Depth Perception or Colors Identified - OR - Contrast sensitivity for each row.

On this one you can modify patient data, delete the patient or review a previous recorded test.

Printed list will look like this

```
Patient: SMITH, John
Date, Examiner, Eye, Correction, Illumination, Glare, Test Type, Results*, Comments
11/19/2017 12:31:36 A, Jane Doe O, OU, Yes, 85 No Glare, FACT , 9 , 100, 5 , 40 , 7 , 90 , 5 , 30 , 7 , 33,
11/19/2017 12:31:36 A, Jane Doe O, OU, Yes, 85 No Glare, FACT , 6 , 36 , 7 , 80 , 6 , 64 , 7 , 60 , 5 , 17,
11/19/2017 12:50:52 A, Jane Doe O, OS, Yes, 85 No Glare, ETDORS, 43, 20/25-2
11/19/2017 1:18:35 AM, Jane Doe O, OD, Yes, 85 No Glare, ETDORS, 42, 20/32+2
11/19/2017 1:18:51 AM, Jane Doe O, OU, Yes, 85 No Glare, ETDORS, 38, 20/32-2
11/19/2017 1:19:48 AM, Jane Doe O, OU, Yes, 3 No Glare, ETDORS, 38, 20/32-2
11/19/2017 1:20:09 AM, Jane Doe O, OU, Yes, 3 Level 1, ETDORS, 43, 20/25-2
11/19/2017 1:20:37 AM, Jane Doe O, OU, Yes, 3 Level 2, ETDORS, 43, 20/25-2
11/19/2017 1:28:07 AM, Jane Doe O, OU, Yes, 85 No Glare, Depth, 5 , 50 Arc Sec
11/19/2017 1:34:29 AM, Jane Doe O, OU, Yes, 85 No Glare, Color, 5 , A B C D E Correct
```

To review a record please select it.

On each test you can modify previous results

# ETDRS EDIT

Selects All Above

Selects Row

|                          |   | ETDRS Acuity - Far - Left | Snellen 20 Feet / X | No. of Letters | Line No. |
|--------------------------|---|---------------------------|---------------------|----------------|----------|
| <input type="checkbox"/> | > | D R C H V                 | Line Score (160)    | 5              | 5        |
| <input type="checkbox"/> | > | C K N R D                 | Line Score (125)    | 10             | 6        |
| <input type="checkbox"/> | > | S H Z D O                 | Line Score (100)    | 15             | 7        |
| <input type="checkbox"/> | > | R O D V C                 | Line Score (80)     | 25             | 8        |
| <input type="checkbox"/> | > | K R H S D                 | Line Score (63)     | 20             | 9        |
| <input type="checkbox"/> | > | C O S Z H                 | Line Score (50)     | 30             | 10       |
| <input type="checkbox"/> | > | Z C V O R                 | Line Score (40)     | 35             | 11       |
| <input type="checkbox"/> | > | C R D V H                 | Line Score (32)     | 40             | 12       |
| <input type="checkbox"/> | > | D C V H S                 | Line Score (25)     | 43             | 13       |
| <input type="checkbox"/> | > | K V S C R                 | Line Score (20)     | 43             | 14       |
| <input type="checkbox"/> | > | O C N K D                 | Line Score (16)     | 43             | 15       |
| <input type="checkbox"/> | > | D K C V Z                 | Line Score (12.5)   | 43             | 16       |

Blue - Patient Correctly Identified Letter  
 Gray - Patient DID NOT Identify Letter

Correct Letter ID Score 43  
 Snellen Visual Acuity 20/25-2

Patient: SMITH, John  
 DOB: 12/5/1965  
 ID#:  
 Test Date: 11/19/2017  
 Eye: OS  
 Luminance: 85 cd/M2  
 Correction:  No  Yes  
 Glare:  No Glare  Level 1  Level 2  
 Examiner: Jane Doe OD

Comments:



## Draw FACT Chart

Click on **Draw Chart** button to review all previous FACT results for this customer as a chart

### CONTRAST SENSITIVITY CHART

Patient SMITH, John

DOB 12/5/1965

ID#

Selected Records are plotted on chart  
Click records to select and deselect

Date, Eye, Correction, Illum., Glare

11/19/2017,OU, Yes, 85, No Glare, Jane Doe C  
11/19/2017,OU, Yes, 85, Level 1, Jane Doe OD  
11/19/2017,OD, Yes, 85, Level 1, Jane Doe OD  
11/19/2017,OS, Yes, 85, Level 1, Jane Doe OD

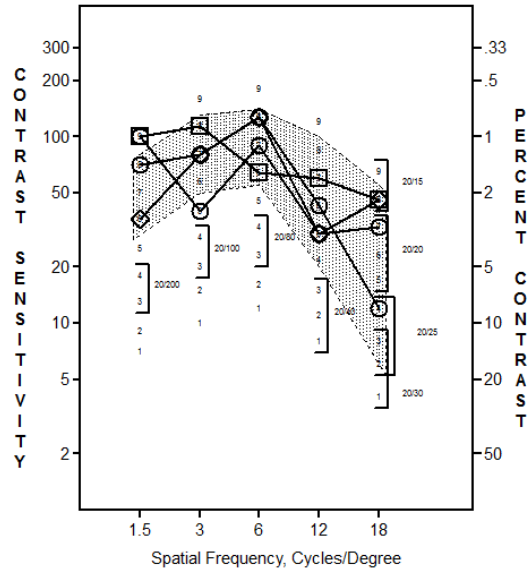
- ◇ Right Eye
- Left Eye
- Binocular

Data plotted is average of all tests  
having the same parameters.

Date Eye Correction Illum. Glare #-Avg Examiner

| Date       | Eye | Correction | Illum. | Glare    | #-Avg | Examiner    |
|------------|-----|------------|--------|----------|-------|-------------|
| 11/19/2017 | OU  | Yes        | 85     | No Glare | 1     | Jane Doe OD |
| 11/19/2017 | OU  | Yes        | 85     | Level 1  | 1     | Jane Doe OD |
| 11/19/2017 | OD  | Yes        | 85     | Level 1  | 1     | Jane Doe OD |
| 11/19/2017 | OS  | Yes        | 85     | Level 1  | 1     | Jane Doe OD |

Print Chart



You can select & unselect a test to display the chart on the right  
You can also print the results.

## Summary

For the selected patient, you can click on **Summary** button to review all tests of a day then print it.

### SUMMARY

| Eye         | Correction | Illumination       | Glare            | Letters Correct | Visual Acuity | Examiner    |
|-------------|------------|--------------------|------------------|-----------------|---------------|-------------|
| OS          | Yes        | Photopic 85. cd/M2 | No Glare         | 43              | 20/25-2       | Jane Doe OD |
| OD          | Yes        | Photopic 85. cd/M2 | No Glare         | 42              | 20/32+2       | Jane Doe OD |
| OU          | Yes        | Photopic 85. cd/M2 | No Glare         | 38              | 20/32-2       | Jane Doe OD |
| OU          | Yes        | Mesopic 3. cd/M2   | No Glare         | 38              | 20/32-2       | Jane Doe OD |
| OU          | Yes        | Mesopic 3. cd/M2   | Level 1          | 43              | 20/25-2       | Jane Doe OD |
| OU          | Yes        | Mesopic 3. cd/M2   | Level 2          | 43              | 20/25-2       | Jane Doe OD |
| Eye         | Correction | Illumination       | Glare            |                 |               | Examiner    |
| OU          | Yes        | Photopic 85. cd/M2 | No Glare         |                 |               | Jane Doe OD |
|             |            | Patch Scores       | Contrast Average |                 |               |             |
| Row A (1.5) |            | 9                  | 100              |                 |               |             |
| Row B (3)   |            | 5                  | 40               |                 |               |             |
| Row C (6)   |            | 7                  | 90               |                 |               |             |
| Row D (12)  |            | 5                  | 30               |                 |               |             |
| Row E (18)  |            | 7                  | 33               |                 |               |             |
| Eye         | Correction | Illumination       | Glare            |                 |               | Examiner    |
| OU          | Yes        | Photopic 85. cd/M2 | Level 1          |                 |               | Jane Doe OD |
|             |            | Patch Scores       | Contrast Average |                 |               |             |
| Row A (1.5) |            | 8                  | 74               |                 |               |             |
| Row B (3)   |            | 7                  | 60               |                 |               |             |

Select the test date you would like to review.

Patient SMITH, John

DOB 12/5/1965

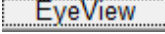
ID#

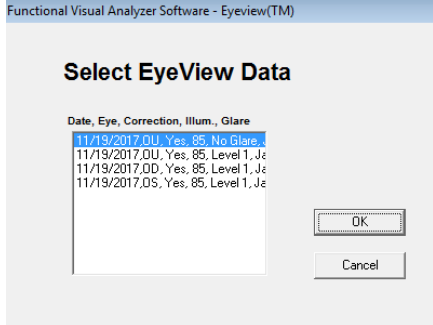
Date 11/19/2017

Print Records

You can select time of the exam and print these records.

## Eyeview™

Click on  button to access a page to simulate effect on vision of FACT results. It asks you to select a previous FACT result for this patient



Then you arrive on this page

### EyeView™ Image Processing

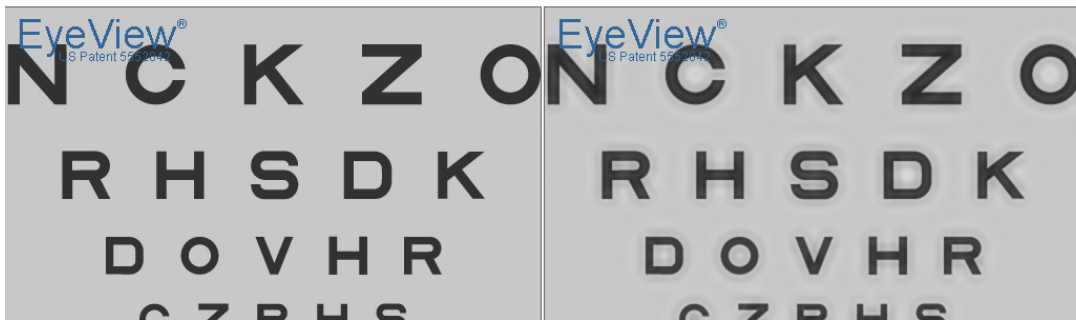
Patient: SMITH, John  
 Date: 11/19/2017  
 Eye: OU  
 Correction: Yes  
 Illumination: 85 cd/M2    Glare: Level 1

Select Picture:  
 Acuity Chart     Distance  
 Street     Night Driving  
 Other

Contrast Sensitivity Scores  
     Cycles/Degrees  
 A (1.5)    B (3)    C (6)    D (12)    E (18)

Select an image: Original    Select an image: Patient's Contrast Sensitivity Results



In which you can select a different picture & compute the contrast sensitivity results impact on this picture

This example with the Street review then click on Process Image

Patient Data    Draw Chart    Summary    EyeView    Quit    © 2017 Stereo Optical Chicago IL    All rights reserved. Patents applied for.

### EyeView™ Image Processing

Patient: SMITH, John  
 Date: 11/19/2017  
 Eye: OS  
 Correction: Yes  
 Illumination: 85 cd/M2    Glare: Level 1

Select Picture:  
 Acuity Chart     Distance  
 Street     Night Driving  
 Other

Contrast Sensitivity Scores  
     Cycles/Degrees  
 A (1.5)    B (3)    C (6)    D (12)    E (18)

Select an image: Original    Select an image: Patient's Contrast Sensitivity Results



You can compare different images by selecting type of image  
 Eyeview™    Functional Visual Analyser



Click on Print to print a report.