

Eyeglasses Inventory Program Documentation / Help file summary page.

Click one of the following lines to go directly to the page which interests you.
Click the TITLE line of Page 1 of each section to return to this menu.

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[Options Window Help](#)

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This help covers the part of the screen which is shown below. Click on blue boxed or circled areas or underlined text for the part of the screen for which you need help or information.

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The screenshot shows a window titled "Data Entry Area. --(Click for help) --". It contains two columns for "Left" and "Right" eye prescriptions. Each column has a "Confidence value" of 10, and input fields for "Sphere", "Cylinder", and "Axis". Below these are "Net Pwr", "Add", and "Equiv" fields. A green button labeled "<--Reverse-->" is at the bottom. A summary line at the bottom reads "Right/Left Prescription: OD:1.50 -1.00x87 Add:1.25 OS:1.00 -.75x93 Add:1.25".

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The screenshot shows the "Gender" section with radio buttons for "Don't care", "Either M/F", "Male", "Female", and "Child". The "Either M/F" option is selected, and a checkbox "Include 'Either' with M/F" is checked. Below is the "Lens Type" section with radio buttons for "Don't care", "Bi-Trifocal", "Progressive", and "Single". The "Bi-Trifocal" option is selected. There are buttons for "Save UN-Matched Prescription" and "CLEAR". Below that are input fields for "Autorefractor", "Patient" (101), "Used Age" (55), and "Reading Nr" (0006). A "Set Reading and Add Powers." button is present. At the bottom, there is a "No Overminus" section with a checked checkbox "Age=35" and the text "(Rose Rule)".

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Top half of data entry area.

Confidence value is a number from 1 to 10 showing how confident the autorefractor is in your readings. 1 is poor and 10 is excellent. This is not automatically entered from the autorefractor. It is printed on the autorefractor printer (not Dymo) and is visible in the autorefractor viewfinder. What shows here appears on the Dymo. Set it right if you want the Dymo printout to be right.

You can click these buttons to restore left or right autorefractor readings you may have changed.

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You click here to say one or the other eye is blind. Since you only have to match one eye, this will increase the likelihood of getting a match.

The autorefractor automatically fills in the Left/Right Sphere, Cylinder, Axis fields but you can change them also

Net Pwr is sum of Spherical Equivalent (Equiv) and Add. It is calculated but you can change it.

Here the prescription is displayed in an ophthalmic fashion.

You can manually enter the ADD. You also can let it be selected for you when you enter AGE and press the "Set Reading and Add Powers" button below.

Spherical Equivalent is calculated here. It is the Sphere + 1/2 Cylinder.

Click the green "Reverse" button to swap the LEFT and RIGHT areas on both the screen and reports.

Set Reading and Add Powers.

Click here to add .25 to the value of the field to the left.

Click here to subtract .25 from the value of the field to the left.

The screenshot shows a data entry window titled "Data Entry Area" with a "(Click for help)" button. It is divided into "Left" and "Right" sections. Each section has a "Confidence value" field set to 10, and a "BLIND" checkbox. Below these are fields for "Sphere", "Cylinder", and "Axis". Underneath are "Net Pwr", "Add", and "Equiv" fields. A green "Reverse" button is located between the two sections. At the bottom, a "Right/Left Prescription:" field displays the prescription in ophthalmic notation: "OD: 1.50 -1.00x87 Add: 1.25 OS: 1.00 -.75x93 Add: 1.25".

Left			Right		
Sphere	Cylinder	Axis	Sphere	Cylinder	Axis
1.00	-.75	93	1.50	-1.00	87
Net Pwr	Add	Equiv	Net Pwr	Add	Equiv
1.88	1.25	0.63	2.25	1.25	1.00



Bottom half of data entry area.

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Select the Gender of the person here. If you cannot find a match then select "Don't Care".

When selecting "Male" or "Female", click "Include Either..." for Either M/F glasses to be in the list.

Select the Lens Type here. If you don't care then select "Don't Care".

Click the button before every patient that you are testing.

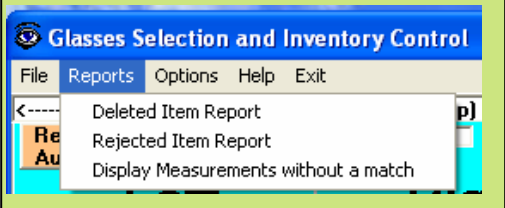
Enter the age of the patient here. This will be used to select the add plus it controls the Rose Rule shown below.

Click this button to use the AGE to automatically fill in the ADD power described on page 2. It also causes the computer to search for the BiFocal power.

Click here every time you have a patient whose prescription you cannot find. The count will increment. You can review the report of mismatches above by using the "Reports" dropdown on the main window as shown below.

Enter the Patient Number here. This number will go on the Dymo printout at the top.

Remove this checkmark if you want to disable Rose's Overminus rule which (in this case) prevents you from giving minus sphere which is over the prescription for a patient 35 or older. Below is the section from the Options Window which control all the features of Rose's rules.



You come to this page when you cannot find the right pair or any pair of glasses. Find the case for your problem below and click on it to get some help.

Cases 1-4 could be on one eye or the other; therefore, different cases can apply to different eyes.

Case 1

(Cylinder is -1.50 or smaller)

This is saying the cylinder is:
-1.50, -1.25, -1.00, -.75, -.50, or -.25
for one eye or the other.

Case 2

(Cylinder is smaller than -1.00)

This is saying the Cylinder is:
-.75, -.50, or -.25
for one eye or the other

Case 3

(Cylinder is -2.00 or higher and
Sphere is greater than + or -2.00)

This is saying the
Cylinder is: -2.00, -2.25, -2.50, -2.75, etc
Sphere is: +2.25, +2.50, +2.75, +3.00, etc. OR
-2.25, -2.50, -2.75, -3.00, etc
for one eye or the other.

Case 4

(Cylinder is -2.00 or higher and
Sphere is smaller than + or -2.00)

This is saying the
Cylinder is: -2.00, -2.25, -2.50, -2.75, etc.
Sphere is: +1.75, +1.50, +1.25, etc OR
-1.75, -1.50, -1.25, -1.00
for one eye or the other.

Case 5

(Tried many things still without
a match).

Cases 6

(Searching for readers)

Cases 7

(Searching for readers Again)

Cases 8

(One eye is plus sphere and the other
is minus. What do I do?)

Or you could say:
Right: Sphere: -1.75, Cyl: -1.00, Axis: 89
Left: Sphere: +1.25, Cyl: -.75, Axis: 13

Cases 9

(Why don't glasses work when
the prescription is right?)

If nothing seems to work, measure the patient again. Compare to the last reading. If it is different, did you remember to dilate the younger patients?

Case 1 (Cylinder is -1.50 or smaller) or you could say cylinder is -1.50, -1.25, -1.00, -.75, -.50, or -.25

Sphere	Cylinder	Axis
2.50	-1.25	93

If you don't get a good match and the cylinder is -1.50 or smaller, change to search by Spherical equivalent. You do this by removing the "Match Only" checkmark(s). Be sure to put it back after you are done. If both eyes have a cylinder of -1.50 or less then click Remove BOTH Match Only). If just one eye is like this then select one eye (Remove Left Or Right Match Only).

Clear one of these:

No Check = Turn on Equivalent. Check = Turn on Match		
<input checked="" type="checkbox"/> BOTH Match Only	<input checked="" type="checkbox"/> Left Match Only	<input checked="" type="checkbox"/> Right Match Only

NOTE
Spherical equivalent is calculated. It is shown on the screen as Equiv. The formula used is:
Spherical Equivalent = Sphere + 1/2 * Cylinder

Case 2 (Cylinder is smaller than -1.00) or you could say cylinder is: -.75, -.50, or -.25

Sphere	Cylinder	Axis
2.50	-.50	93

If you don't get a good match and the cylinder is smaller than one, clear the cylinder entirely (double click on the field). Realize you can get back the reading by clicking on RESTORE AUTOREF (restore autorefractor reading) button above the reading for each eye

Change the reading to this:

Sphere	Cylinder	Axis
2.50		93

By double clicking the Cylinder field to clear it.

Case 3 (Cylinder is -2.00 or higher and Sphere is greater than + or - 2.00)

Or the cylinder is: -2.00, -2.25, -2.50, -2.75, etc and Sphere is: +2.25, +2.50, +2.75, +3.00, etc. or -2.25, -2.50, -2.75, -3.00, etc

If you have a high cylinder (-2.00 or higher), cut it in half using the "Left or Right Cutback and Search" buttons. People who have never worn glasses to correct astigmatism need half the cylinder correction anyway.

Use this: 

Left Lens Reset Cut-Back	Left Cut-Back & Search	Right Cut-Back & Search	Right Lens Reset Cut-Back
Cut-Back BOTH & Search		Reset BOTH Cut-Backs	

And change the prescription to this: (Click "Left Cut-Back & Search 4 times to make it half)

Sphere	Cylinder	Axis
2.00	-1.25	97

The patient will be happier and you will likely find more matches in your inventory system.

Case 4 (Cylinder is -2.00 or higher and Sphere is smaller than +-2.00)

Or you could say the cylinder is: -2.00, -2.25, -2.50, -2.75, etc. and the sphere is: +1.75, +1.50, +1.25, etc OR -1.75, -1.50, -1.25, -1.00

Sphere	Cylinder	Axis
1.00	-2.50	97

If the SPHERE is very low already and again the cylinder is high, you cannot use case 3 to cutback the cylinder as all of the sphere will be lost. Instead use the up/down arrows next to the cylinder field to cut the cylinder in half.

Change the reading to this: (half the cylinder)

Sphere	Cylinder	Axis
1.00	-1.25	97

By clicking the circled up arrow, the patient will be happier and you may find a match.

Case 5 (Tried many things still without a match).

Exact Match	D/4	D/2	Default	D*2
-------------	-----	-----	---------	-----

Go ahead and click on DEFAULT * 2 if you must to get a match but leave it at DEFAULT as much as possible. You want the match closeness number at the left of each row of the search to be 2 or less if possible. At least try whatever you get to be determine if it helps the patient.

Case 6 (Searching for readers).

Sphere	Cylinder	Axis
.00		
Net Pwr	Add.	Equiv
2.00	2.00	0.00

If you want some readers for a person and you don't have them, you can enter ZERO for the left and right sphere and then in the ADD area enter the power of the readers. Now click search and you will find bifocals with zero at the top but with the right power at the bottom.

Case 7 (Searching for readers again).

Sphere	Cylinder	Axis
.00		
Net Pwr	Add.	Equiv
2.00	2.00	0.00

If you just want to get any readers and don't care about the power of the top part of the lens at all, enter your ADD power and then click on MATCH NET ADD POWER "ONLY" and do the search. You will just be matching on the bottom power and not the top at all. Be sure to clear this checkmark later.

Click on: **Match Net/Add Power**

ALSO or **ONLY.**

Cases 8 (One eye is plus sphere and the other is minus. What do I do?)

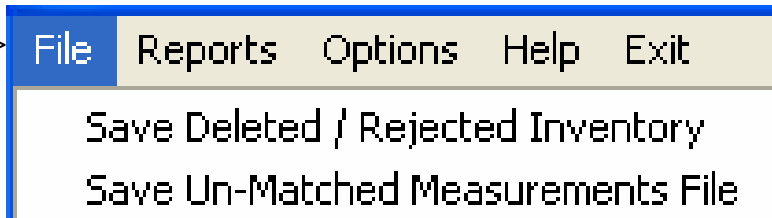
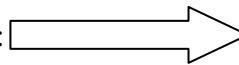
This is a hard case to handle. There are not many people like this so the used prescription inventory for this prescription of glasses is rare. If the prescription number for one eye is very small (+-.50) and the other eye is much larger, clear out the small prescription number and look for a pair of glasses then. Don't try to give the person a pair where both are minus or both are plus. This will not work. One time I gave a man a pair of glasses where I removed the lens from one side of the glasses and matched the prescription on the other. He was very happy (strangely enough).

The best option is to make a pair of glasses for this person using the snap together field assembly glasses.

Cases 9 (Why don't glasses work when the prescription is right?)

- The prescription must not only be right for the patient but they must also fit the face also. Look at the patient's eyes through the lens. Make sure that the BiFocal line is below the pupil and not right in the middle. If the line is too high, see if you can adjust the glasses to fit lower on the patient's nose. If too low, make them fit higher.
- Glasses can be too wide. There is something called an optical center (focal point). This needs to be in front of the pupil. Frequently the optical center is not in the physical center of the lens. Sometimes it is offset toward the nose. To get a pair of glasses with the right optical center, you may have to try several pairs. This is more important with stronger prescriptions. Frequently if the glasses fit physically, they will work for the patient.

The file option on the Glasses Inventory program looks like this:



The first option creates a file called "Total_Inventory_Deleted_Rejected.txt" in C:\. This file can then be brought into the Glasses Reader program using:

File | Load Deleted & Rejected Inventory from Glasses Inventory Program to delete these exact same records from the file maintained by this program.

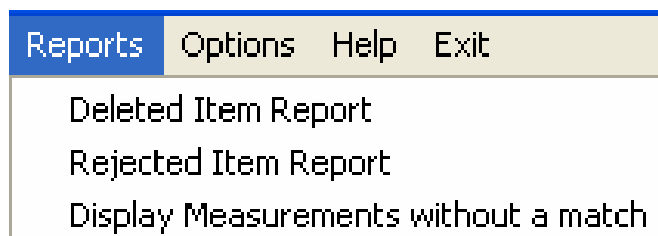
After the file has been created, a batch file named "MoveDeletedInventory.bat" located in C:\ is initiated. This could be used to copy the "Total_Inventory_Deleted_Rejected.txt" file and other files to some other location (like a floppy or a USB disk, for example). Below is a sample of that file:

```
@echo off
Echo Place a blank floppy in drive A:
pause
Copy /Y c:\Total_Inventory_Deleted_Rejected.txt a:\
```

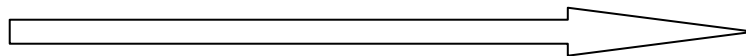
The second option creates file **Inventory_UnMatched.txt** in C:\. This is a file of the records created when you press the following button:

Save UN-Matched Prescription

You can also view the report of these UnMatched prescriptions by clicking on the third option in the below:



generating this report:



Use this report to review the prescriptions you were unable to fill. This will help you refine your inventory for future trips.

Total_Inventory_Report.txt - Notepad

File Edit Format View Help

As of: 10/4/2005 12:43:14 PM

#	Left Eye				Right Eye			
	Sphere	Cylinder	Axis	Add	Sphere	Cylinder	Axis	Add
1	-1.50	-.25	40	2.50	-.25	-.25	134	2.50
2	1.00	.00	0	.00	.50	.00	0	.00
3	-1.50	-.75	92	.00	-.75	-.25	52	.00
4	-1.50	-.75	92	.00	-.75	-.25	52	.00
5	-1.50	-.75	92	.00	-.75	-.25	52	.00
6	-1.50	-.75	92	.00	-.75	-.25	52	.00
7	-1.50	-.75	92	.00	-.75	-.25	52	.00
8	-1.50	-.75	92	.00	-.75	-.25	52	.00
9	-1.50	-.75	92	.00	-.75	-.25	52	.00
10	.75	-.25	30	2.50	1.50	-.75	50	2.50
11	.75	-.25	30	2.50	1.50	-.75	50	2.50
12	.75	-.25	30	2.50	1.50	-.75	50	2.50
13	.75	.00	0	2.00	.50	.00	0	2.00
14	-.75	-.50	44	.00	.50	.00	0	.00
15	-.75	-.50	44	.00	.50	.00	0	.00
16	-.75	-.50	44	.00	.50	.00	0	.00
17	-.50	-.25	158	.00	-.50	-.25	12	.00
18	-.50	-.25	158	.00	-.50	-.25	12	.00
19	-.50	-.25	158	.00	-.50	-.25	12	.00
20	-.50	-.25	158	.00	-.50	-.25	12	.00
21	-1.00	.00	0	1.50	-.75	.00	0	1.50
22	-1.00	.00	0	1.50	-.75	.00	0	1.50
23	-1.00	.00	0	1.50	-.75	.00	0	1.50
24	-1.00	.00	0	1.50	-.75	.00	0	1.50
25	1.00	-1.00	107	2.00	1.00	-.50	66	2.00
26	1.00	-1.00	107	2.00	1.00	-.50	66	2.00
27	1.00	-1.00	107	2.00	1.00	-.50	66	2.00
28	1.00	-1.00	107	2.00	1.00	-.50	66	2.00
29	.50	-.50	91	.00	.50	.00	0	.00
30	.75	-.25	167	.00	.25	-.25	176	.00
31	.75	-.25	167	.00	.25	-.25	176	.00
32	.75	-.25	167	.00	.25	-.25	176	.00
33	.75	-.25	167	.00	.25	-.25	176	.00

Number of No Matches = 33

The reports option on the Glasses Inventory program looks like what you see to the below/right.

The first option produces a Deleted Item Report. This report indicates the location numbers of the eyeglasses which have been deleted by the program.

Reports Options Help Exit

Deleted Item Report

The second option produces a Rejected Item Report. This report indicates the location numbers of the eyeglasses which have been rejected by the patient. Keep in mind that "rejected" is defined as a pair of glasses which physically fit. They are also the right prescription but the patient rejects them. The patient instead accepts another pair which according to the system is a poorer match.

Rejected Item Report

Vacant Location Report (Includes Deleted items)

Display Measurements without a match

The third option produces a Vacant Location Report. This report indicates the numbers of the eyeglasses which have been deleted by the program but in addition lists the numbers of locations previously empty.

The second file option (Save Unmatched Measurement File) creates a file named **Inventory_UnMatched.txt** in C:\. This is a file of the records created when you press the following button:

**Save UN-Matched
Prescription**

You can also view the report of these UnMatched prescriptions by clicking on the 4th option in the below:

Reports Options Help Exit

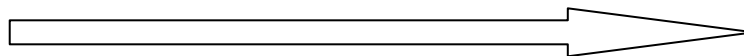
Deleted Item Report

Rejected Item Report

Vacant Location Report (Includes Deleted items)

Display Measurements without a match

generating this report:



Use this report to review the prescriptions you were unable to fill. This will help you refine your inventory for future trips.

Total_Inventory_Report.txt - Notepad

File Edit Format View Help

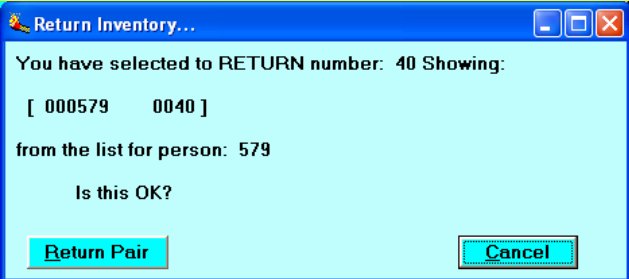
As of: 10/4/2005 12:43:14 PM

#	<----- Left Eye ----->				<----- Right Eye ----->			
	Sphere	Cylinder	Axis	Add	Sphere	Cylinder	Axis	Add
1	-1.50	-.25	40	2.50	-.25	-.25	134	2.50
2	1.00	.00	0	.00	.50	.00	0	.00
3	-1.50	-.75	92	.00	-.75	-.25	52	.00
4	-1.50	-.75	92	.00	-.75	-.25	52	.00
5	-1.50	-.75	92	.00	-.75	-.25	52	.00
6	-1.50	-.75	92	.00	-.75	-.25	52	.00
7	-1.50	-.75	92	.00	-.75	-.25	52	.00
8	-1.50	-.75	92	.00	-.75	-.25	52	.00
9	-1.50	-.75	92	.00	-.75	-.25	52	.00
10	.75	-.25	30	2.50	1.50	-.75	50	2.50
11	.75	-.25	30	2.50	1.50	-.75	50	2.50
12	.75	-.25	30	2.50	1.50	-.75	50	2.50
13	.75	.00	0	2.00	.50	.00	0	2.00
14	-.75	-.50	44	.00	.50	.00	0	.00
15	-.75	-.50	44	.00	.50	.00	0	.00
16	-.75	-.50	44	.00	.50	.00	0	.00
17	-.50	-.25	158	.00	-.50	-.25	12	.00
18	-.50	-.25	158	.00	-.50	-.25	12	.00
19	-.50	-.25	158	.00	-.50	-.25	12	.00
20	-.50	-.25	158	.00	-.50	-.25	12	.00
21	-1.00	.00	0	1.50	-.75	.00	0	1.50
22	-1.00	.00	0	1.50	-.75	.00	0	1.50
23	-1.00	.00	0	1.50	-.75	.00	0	1.50
24	-1.00	.00	0	1.50	-.75	.00	0	1.50
25	1.00	-1.00	107	2.00	1.00	-.50	66	2.00
26	1.00	-1.00	107	2.00	1.00	-.50	66	2.00
27	1.00	-1.00	107	2.00	1.00	-.50	66	2.00
28	1.00	-1.00	107	2.00	1.00	-.50	66	2.00
29	.50	-.50	91	.00	.50	.00	0	.00
30	.75	-.25	167	.00	.25	-.25	176	.00
31	.75	-.25	167	.00	.25	-.25	176	.00
32	.75	-.25	167	.00	.25	-.25	176	.00
33	.75	-.25	167	.00	.25	-.25	176	.00

Number of No Matches = 33

This help covers the part of the screen which is shown below.

If you click any line on this list you will get a popup message like the below.



Click on Return Pair and the pair of glasses will be return to inventory. Click Cancel if you have clicked this line by mistake.

<--- Glasses Used --(Click for help) ---->

Persons list and glasses.

Person Nrs	Glasses Nrs
001477	0022
000467	0039
000579	0040
000253	0041
001374	0076
000577	0080
000001	0086
001353	0090

Refresh Person List

Press this button to refresh the Glasses Used list.

This is the persons number list. This is the number for the person who received this pair of glasses. This number will only be correct if when you remove the glasses from inventory you change the person number on the screen to match the number on the list that you are looking at while doing the inventory removal.

This is the number of the pair of glasses which has been removed from inventory.

Options Window Help

(Revised with version 6.4-2) **PAGE 1** 6/5/2007

This help covers the part of the screen which is shown below. Click on blue boxed or circled areas or underlined text for the part of the screen for which you need help or information.

[PAGE 2](#)

Program Options Version 6.x.x

Help with this Options Window (Click for help)

Set Program Options

- Maximum Sphere Overage allowed to make the list:
- Maximum Cylinder Overage allowed to make the list:
- [+ or -] Axis Deviation allowed to make the list:
- Maximum Allowed Cylinder when NO Patient Astigmatism:
- Minimum Patient Sphere Value when above parameter is met:
- Amount to Cut-Back Cylinder each time:

Exact Match Defaults Defaults Restore Defaults Defaults *2

BiFocal Add Chart

From Age	To Age	Add Value
0	37	0.00
38	43	1.00
44	47	1.50
48	55	2.00
56	99	2.50
100	101	2.50
102	103	2.50
104	105	2.50

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Change Search Options

Both Eye Options

Match Left Only (BLIND in right eye) Match Right Only (BLIND in left eye)

Match Both Equally Match Reading Power also. OR only

NO match on spherical equivalence. Male & Female searches should include "Either".

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[PAGE 4](#)

General Program Options

Set Program diagnostic mode. Refresh screen upon Add/Remove

Print patient prescription on picklist. Disable Focometer Support. Reading Glasses.

Enable Autorefractor Data Capture Automatic Search when changed. Lens & Frames

Enable automatic search when read. Display Confidence Level.

Enable HOME button () on main screen. Print Glasses List Prescriptions.

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Roses Rules

Enable Roses Rules. NO Over plus. NO Over Cylinder. No Over Minus if: or greater.

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Select your Autorefractor

Retinomax 2 or K-Plus 2 Nikon Retinomax or K-Plus

Welch Allyn Suresight Marco Nidek Ark-20/30

Canon RK-2 Auto Ref-Keratometer None

Burton Velo 20/10 Ref-Keratometer

Comm Port?

1 2 3 4 5

6 7 8 9 10

11 12 13 14 15

16 None

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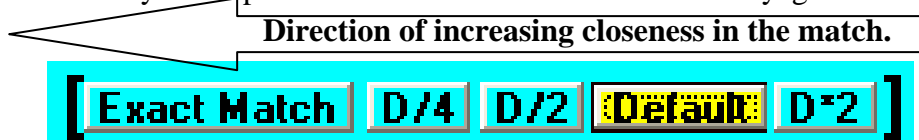
Set Program Options

1. Maximum Sphere Overage allowed to make the list:	1.00
2. Maximum Cylinder Overage allowed to make the list:	1.00
3. (+ or -) Axis Deviation allowed to make the list:	15
4. Maximum Allowed Cylinder when NO Patient Astigmatism:	.5
5. Minimum Patient Sphere Value when above parameter is met:	4.00
6. Amount to Cut-Back Cylinder each time:	0.25

When these buttons are pressed from left to right (from **Exact Match** to **Defaults *2**) the tolerance values change as shown in the below table.

Program Option	Exact Match	Defaults/4	Defaults /2	Defaults	Defaults *2
1	0	.25	.5	1.00	2
2	0	.25	.5	1.00	2
3	0	3.75	7.5	15	30
4	0	.25	.25	.5	1
5	4.00	1	2	4.00	8
6	.25	.0625	.125	.25	.5

The above buttons exactly correspond to the below buttons on the main Eyeglasses Inventory window.



Pressing these buttons establishes the tolerance or closeness that a pair of glasses must be to the patient's prescription to make the list.

Here is an explanation of the various program options:

- **Maximum sphere Overage allowed to make the list.** This is the maximum amount the sphere of the glasses can exceed the sphere of the prescription for the pair of glasses to make the list.
- **Maximum cylinder Overage allowed to make the list.** This is the maximum amount the cylinder of the glasses can exceed the sphere of the prescription for the pair of glasses to make the list
- **(+ or -) Axis Deviation allowed to make the list.** This is the maximum amount the axis of the glasses can exceed the sphere of the prescription for the pair of glasses to make the list
- **Maximum Allowed Cylinder when NO Patient Astigmatism.** This is the maximum amount of cylinder a pair of glasses can have and make the list when the patient has no (.25 or less) cylinder (astigmatism).
- **Minimum Patient Sphere Value when above parameter is met.** This is the lowest amount of sphere that the patient can have (either + or -) when the above parameter is allowed to take affect.
- **Amount of Cut-Back Cylinder each time.** This is the amount of cylinder cutback that will occur each time "cutback" is clicked.

10/4/2005

BiFocal Add Chart

From Age	To Age	Add Value
0	37	0.00
38	43	1.00
44	47	1.50
48	55	2.00
56	99	2.50
100	101	2.50
102	103	2.50
104	105	2.50

This table determines the Add for a pair of glasses based upon the age of a patient. This table can be changed but it is suggested that it NOT be changed as it has been proven to be quite accurate.

Change Search Options

Both Eye Options

Match Left Only (BLIND in right eye)
 Match Right Only (BLIND in left eye)

Match Both Equally
 Match Reading Power also OR only

NO match on spherical equivalence.
 Male & Female searches should include "Either".

Here is an explanation of the above options:

Match Left Only (BLIND in right eye). The program looks for a pair of glasses which match the left eye ignoring the right eye.

Match Right Only (BLIND in right eye). The program looks for a pair of glasses which match the right eye ignoring the left eye.

Match Both Equally This says that both the right and the left eye should be matched.

The above options correspond with the options shown to the right on the main window:

Male & Female searches should include "Either".

When selected, searching for Male or Female glasses will include glasses marked as "either".

Match Reading Power also or only.

This indicates that when you match the pair of glasses you should also match the reading power (in addition to sphere, cylinder, and axis) or only match the reading power (ignoring sphere, cylinder, and axis). This corresponds to this option on the main window:

Match Net/Add Power

ALSO or ONLY.

NO match on spherical equivalence.

When checked this means that all matches must be based upon sphere, cylinder, axis and not spherical equivalence. This option corresponds with the following option on the main window.

Clear=Turn On Equivalent. Check= Turn on Match.

BOTH Match Only
 Left Match Only
 Right Match Only

Restore Autoref. BLIND

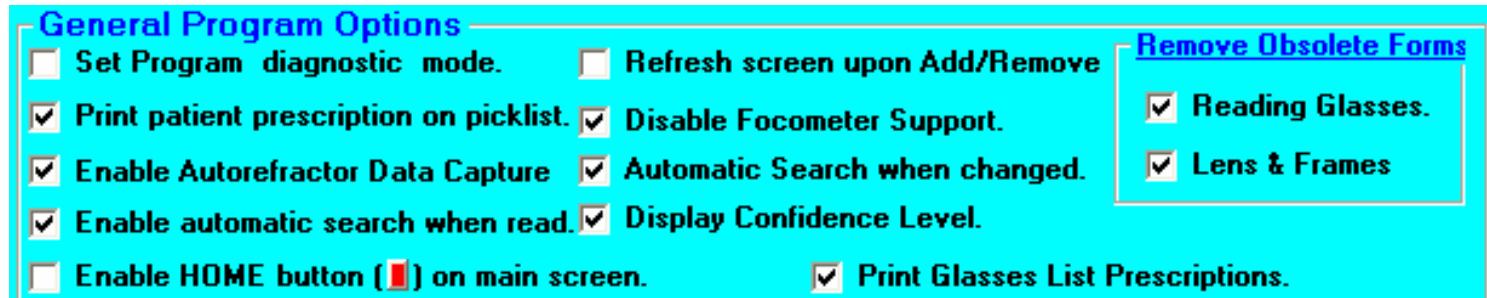
Left

Confidence value: 10

Restore Autoref. BLIND

Right

Confidence value: 10



Here is an explanation of all the above options:

- **Set Program diagnostic mode.** When enabled this options writes a diagnostic file upon every search. This can be later used to see if the searches are giving accurate results.
- **Print patient prescription on picklist.** Checking this option causes the prescription for the patient to print on the top of the picklist which is printed on the Dymo labelwriter printer.
- **Enable Autorefractor Data Capture.** Checking this option allows the selection of the type of autorefractor and the computer COMM port to which the autorefractor is attached. The bottom part of the window is expanded to allow this selection.
- **Enable automatic search when read.** Checking this option means that when an autorefractor measurement is made and transmitted to the computer the computer will automatically search for a match.
- **Enable HOME button on main screen.** Checking this option turns on this special red button and puts it in the top / left corner of the screen. Clicking this button moves the entire window snugly into the top left part of the screen.
- **Refresh screen upon Add/Remove** Checking this option means that every time inventory is removed from the system the bottom / right inventory window is refreshed. It is not recommended that you do this if you have a large amount of inventory and / or a slow computer as this will take some time.
- **Disable Focometer Support** Checking this option removes the Focometer support fields from the main screen.
- **Automatic Search when changed.** Checking this option means that when certain options are changed around the search window, and fresh automatic search is made.
- **Display Confidence Level.** Checking this option turns on the confidence level indicator on the screen. It also causes the value displaying on these indicators to be printed on the picklist. Confidence Levels indicate the confidence the autorefractor has in the accuracy of the measurement of the patient. Turning OFF this option causes Spherical Equivalent to be displayed on the picklist instead.
- **Print Glasses List Prescriptions** Checking this option means that in addition to showing the inventory number of a pair of glasses showing on the picklist but also the prescription for that pair will be printed.
- **Remove Obsolete Forms** Checking these options removes the buttons for activating these obsolete forms from the main window.

Roses Rules HELP with Rose Rules

Enable Roses Rules. **NO Over plus.** **NO Over Cylinder.** **No Over Minus if:** **or greater.**

When you click the above HELP button you will see:

Help with Rose's Rule. V6.x-x

ROSE'S RULES Print Rules

1. – It is OK to have Myopia under corrected or over corrected by -0.50/+0.50. TRANSLATION: A minus sphere prescription can be more or less minus by .50. For example if the patient's prescription is -2.00 sphere, you may be able to use -2.50 or -1.50.
2. – Never over correct cylinder. To avoid this set (NO Overcylinder) on main window. TRANSLATION: The cylinder for the glasses cannot be larger numerically than the cylinder for the patient; i.e. If the patient cylinder is -1.00 then -.75 is OK but -1.25 is not.
3. – You can decrease cylinder up to -0.75 and be just as effective most of the time. Setting (NO Overcylinder) on the main window will give glasses which have less cylinder than the prescription. TRANSLATION: If the cylinder is -2.00 you can decrease the cylinder to -1.25 most of the time.
4. – Never over correct hyperopia. To avoid this set the (NO Overplus) checkmark on main window. TRANSLATION: When a patient has + sphere do not dispense glasses which have MORE + sphere, i.e. if the patient prescription is 2.00 do not dispense a 2.50 but 1.50 will likely work quite well.
5. – It is OK to under correct hyperopia up to one diopter. TRANSLATION: When a patient has + sphere it is OK to dispense a smaller value by up to 1.00; i.e., if the patient prescription is 4.00, it is OK to dispense 3.00.
6. – Never over minus Miopic patients 35 years of age or older. If the patient is less than 35 you can over minus them some (.50) but not 35 years or older. (See Rule 1).

Compliments: Dr Sammy Rose,OD Indianola, Ms.

Here is the meaning of the various checkmarks:

- Enable Roses Rules** Click this checkmark to enable all the rules at once.
- NO Over plus** Clicking this checkmark prevents any pair of glasses from being selected which has more plus sphere than the patient's prescription.
- NO Over Cylinder** Clicking this checkmark prevents any pair of ghassees from being selected which has more cylinder than the patient's prescription.
- NO Over Minus if: 35 or greater** Clicking this option causes the system to prevent any minus sphere prescription to be higher than the prescription if the patient is XX years or greater (XX = 35). This option corresponds with the following option on the main window:

No Overminus
 Age=
(Rose Rule)

None of these rules should be turned off as Rose's rules have proven to provide greater acceptance of the glasses by the patients.

Save to File & Continue

CONTINUE

If you click the left button **Save to File & Continue** the options you have selected will be saved for future program activation and the program will continue with it's operation.

If you click the right button **CONTINUE** the program accepts any of your changes but they are not saved to file for future execution.

Select your Autorefractor

- Retinomax 2 or K-Plus 2**
- Welch Allyn Suresight**
- Canon RK-2 Auto Ref-Keratometer**
- Burton Velo 20/10 Ref-Keratometer**
- Nikon Retinomax or K-Plus**
- Marco Nidek Ark-20/30**
- None**

Comm Port?

- 1** **2** **3** **4** **5**
- 6** **7** **8** **9** **10**
- 11** **12** **13** **14** **15**
- 16** **None**

This part of the window expands when you select **Enable autorefractor data capture**. In this window you select your autorefractor type by model number and also the Comm Port number to which the autorefractor is attached. Before **Enable autorefractor data capture** is clicked the default setting for Comm Port is **None**. This is to allow use of the program to those who do not have an autorefractor and they have a PC without any COMM port.

Search Results Help

This help covers the part of the screen which is shown below. Click on blue boxed or circled areas or underlined text for the part of the screen for which you need help or information

PAGE 2

Search Results Window ---(Click for help)---

Items Available

Print 10 lines of below list plus prescription. [Exact Match D/4 D/2 Default D*2]

Clear=Turn On Equivalent. Check= Turn on Match. Match Net/Add Power

BOTH Match Only Left Match Only Right Match Only ALSO or ONLY.

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Left										Right						
#	Nr.	SPH	CYL	Axis	Add (Pwr)	PD	Rej #	Flag		SPH	CYL	Axis	Add (Pwr)	(S R P B)	G	Flag
0.6	0362	1.50	-1.25	089	2.50(3.38)	M	0	-Match		1.50	-1.25	094	2.50(3.38)	(xxx)B	F	-Match
0.8	1729	1.25	-1.00	090	2.50(3.25)	M	0	-Match		1.50	-1.00	098	2.75(3.75)	(xxx)B	F	-Match
1.6	2120	1.25	-1.25	090	0.00(0.63)	M	0	-Match		0.50	-0.50	099	0.00(0.25)	(xxxx)	E	-Match
1.9	3107	0.50	-1.25	092	3.00(2.88)	M	0	-Match		1.00	-1.25	110	3.00(3.38)	(xxx)B	F	-Match
2.0	0079	0.75	-1.25	082	2.25(2.38)	M	0	-Match		0.75	-1.25	099	2.25(2.38)	(xxx)B	M	-Match
2.0	1679	0.75	-1.00	089	0.00(0.25)	M	0	-Match		0.75	-1.00	095	0.00(0.25)	(xxxx)	F	-Match
2.0	1869	1.00	-1.00	097	2.50(3.00)	M	0	-Match		1.50	-0.50	091	2.75(4.00)	(xxx)B	F	-Match
2.0	2364	1.00	-0.25	080	1.25(2.13)	M	0	-Match		1.25	-0.50	103	1.25(2.25)	(xxx)B	F	-Match
2.0	2869	1.00	-0.25	090	2.50(3.38)	M	0	-Match		1.00	-0.25	093	2.50(3.38)	(xxx)B	M	-Match
2.0	2888	0.50	-0.50	092	2.75(3.00)	M	0	-Match		0.50	-1.25	097	2.75(2.63)	(xxx)B	E	-Match
2.1	0342	1.25	-0.50	091	0.00(1.00)	M	0	-Match		1.25	-0.50	091	0.00(1.00)	(xxxx)	M	-Match

Help Me Find Something for this patient. (Click for help)

PAGE 3

PAGE 4

Left Lens Left Cut-Back & Search **SEARCH** Right Cut-Back & Search Right Lens

Reset Cut-Back Cut-Back BOTH & Search Reset BOTH Cut-Backs Reset Cut-Back

Left Cut-Back Count: 000 Status= Found: 0046 000 Right Cut-back Count

PAGE 4

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This area in orange controls printing of the prescription on the Dymo printer. By default it prints 10 lines of information. The Checkmark determines whether or not you want the prescription to print on the prescription. Below is a sample printout.

Patient #:1 Age:58

EYE	SPH	CYL	AXIS	ADD	CL
R (OD)	2.50	-1.25	x78	2.50	
L (OS)	2.25	-1.25	x93	2.50	

Settings

Matched Default setting.
 ROSE RULE in effect for:
 NO Over Plus (+) sphere.
 NO over cylinder.
 NO over Minus (-) sphere. >35 Yr
 Matched ADD Power Also.

#	Lcn# (#Rej)	Flags
0.9	0182	M-B
		R(OD): 2.50/-1.25/82 Add:2.25 L(OS): 1.75/-1.25/89 Add:2.50
1.6	3724	F-B
		R(OD): 1.50/-1.25/74 Add:3.00 L(OS): 1.25/-1.25/92 Add:3.25
1.8	1716	F-B
		R(OD): 2.00/-0.25/86 Add:2.50 L(OS): 2.00/-1.00/96 Add:2.00
1.8	2417	F-B
		R(OD): 2.00/-0.75/84 Add:2.00 L(OS): 2.00/-1.00/96 Add:2.00
1.9	1613	F-B
		R(OD): 2.50/-0.25/86 Add:2.75 L(OS): 1.25/-0.75/97 Add:2.75
2.1	0116	F-B
		R(OD): 2.00/-0.75/74 Add:2.50 L(OS): 1.50/-0.25/98 Add:2.50
2.1	2464	F-B
		R(OD): 2.25/-0.50/83 Add:2.25 L(OS): 2.25/-0.75/83 Add:2.50
2.1	3653	M-B
		R(OD): 2.50/-0.50/74 Add:2.75 L(OS): 2.00/-0.75/103 Add:2.75
2.3	0670	F-B
		R(OD): 1.75/-0.50/88 Add:2.25 L(OS): 2.25/-1.00/89 Add:2.50
2.3	1638	F-B
		R(OD): 2.50/-0.50/67 Add:3.00 L(OS): 2.25/-0.50/98 Add:3.00

Note that "CL", confidence level is replaced with "SE" spherical equivalent if the "Confidence Level" option isn't selected in the options setup screen. SE for the right and left eye is then printed below this heading.

This area determines how close to the patient's prescription the pair of glasses must be for them to appear in the search list window showing on the next page. The Default setting is the most common setting but should you not get any matches at all, try the D*2 (Default times 2) setting instead.

Click Exact Match and only pairs which exactly match the prescription will appear on the list.

Search Results Window (Click for help)

Items Available

Print 10 lines of below list plus prescription. [Exact Match D/4 D/2 Default D*2]

Clear=Turn On Equivalent. Check= Turn on Match. Match Net/Add Power

BOTH Match Only Left Match Only Right Match Only ALSO or ONLY.

When the Both Match Only checkmark is checked, this tells the computer to match Sphere, Cylinder and Axis on BOTH lens of the pair of glasses. If it is UN-Checked, then it will list Spherical only glasses which will match the spherical equivalent (displayed Equiv) which is calculated as:

$$\text{Spherical Equivalent} = \text{Sphere} + \frac{1}{2} \text{Cylinder.}$$

Sphere	Cylinder	Axis
1.00	-.75	93
Net Pwr	Add.	Equiv
1.98	1.25	0.63

Notice how the Equiv shows up in the Data Entry area.

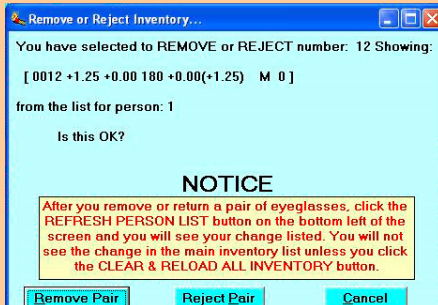
Left Match Only checked means match only the left eye. Right Match Only means match only the Right eye.

NOTE that Spherical equivalent should not be chosen UNLESS you cannot get a match any other way. It also is not useful unless the cylinder is 1.5 or smaller.

When you click the **SET READING AND ADD POWER** button, the Also checkmark is automatically checked unless the automatically selected Add is zero. This tells the computer to not only match Sphere, Cylinder, and Axis but Also match the Add.

When Only is checked, this means to ignore Sphere cylinder and axis and match Only on the Add.

When you get the pick list back from the fitters, you click on the line of the pair of glasses you plan to remove and you will see:



Click on Remove to remove the pair or Reject if the pair was good but still rejected (Patient unable to see)

This first column contains the Closeness indicators for all the glasses listed. The closest matched pair is at the top and has the smallest number. The furthest match is at the bottom and has the largest number. The matches are not as close as you go down the list. The Dymo printout is printed in this order also.

This second column is the number of the pair of glasses in the inventory system.

These 2 areas display the Sphere, Cylinder, Axis and Add for the pairs of glasses. It also shows in parenthesis the "Net Power" which is a sum of the spherical equivalence and the add.

Left and Right Eye Information.
This information can be reversed so that the Right eye displays on the Left and the Left eye displays on the right by clicking on the **REVERSE** button in the Data Entry area.

These two columns show if the indicated lens (Left or Right) were selected due to a Sphere, Cylinder, Axis Match or by Spherical Equivalent (Equiv);. All are Match in this example.

Left	SPH	CYL	Axis	Add (Pwr)	Right	SPH	CYL	Axis	Add (Pwr)
1.50	-1.25	089	2.50	(3.38)	1.50	-1.25	094	2.50	(3.38)
1.25	-1.00	090	2.50	(3.25)	1.50	-1.00	098	2.75	(3.75)
1.25	-1.25	090	0.00	(0.63)	0.50	-0.50	099	0.00	(0.25)
0.50	-1.25	092	3.00	(2.88)	1.00	-1.25	110	3.00	(3.38)
0.75	-1.25	082	2.25	(2.38)	0.75	-1.25	099	2.25	(2.38)
0.75	-1.00	089	0.00	(0.25)	0.75	-1.00	095	0.00	(0.25)
1.00	-1.00	097	2.50	(3.00)	1.50	-0.50	091	2.75	(4.00)
1.00	-0.25	080	1.25	(2.13)	1.25	-0.50	103	1.25	(2.25)
1.00	-0.25	090	2.50	(3.38)	1.00	-0.25	093	2.50	(3.38)
0.50	-0.50	092	2.75	(3.00)	0.50	-1.25	097	2.75	(2.63)
1.25	-0.50	091	0.00	(1.00)	1.25	-0.50	091	0.00	(1.00)

This is the Flags column. The heading is S R P B which stands for Sunglasses, Reading glasses, Progressive lens, and BiFocals. If a pair of glasses are, for example, BiFocal Sunglasses the entry will be: (SxxB)

[Go to Page 4](#)

Click this Bar if you cannot find match for a pair of glasses for the patient and need help.

Gender of glasses. For Male, Female, Either, or Child.

This column is an indicator of the number of times this pair of glasses has been Rejected. A pair of glasses is marked Rejected when the glasses fit the face, the patient likes the style, the prescription is right but the patient cannot see through the glasses. The prescription on the glasses may be wrong.

This is the PD (Pupillary Distance or Distance between the pupils). This field can be S, M, or L which is approximated as 58, 65 or 70 mm. It can also display a number which is the MM for the PD of the pair of glasses.

The Cut Back function is used if the patient has high cylinder (greater than 2.00). Patients who have never worn glasses will feel “dizzy” if they are given a pair of glasses which exactly match their cylinder prescription. It is therefore recommended that you cut back the cylinder by at least half using this function.

You cannot; however, use cutback if the patient has very small sphere. Since each cutback will reduce the sphere, stop performing the cutback if the sphere gets less than +1.00. If you cannot use this function, then just manually reduce the cylinder without changing the sphere.

Click this button to Cut back the Cylinder (maintaining Spherical Equivalence the same) for the Left lens by .25 and then do an automatic search.

Click this button when you wish to cause the computer to search for pairs of glasses. You will do this when you have changed something where you need to refresh the search

Click this button to Cut back the Cylinder (maintaining Spherical Equivalence the same) for the Left lens by .25 and then do an automatic search.

Reset the cutback and return to the original prescription for the Left lens.

Reset the cutback and return to the original prescription for the Right lens.

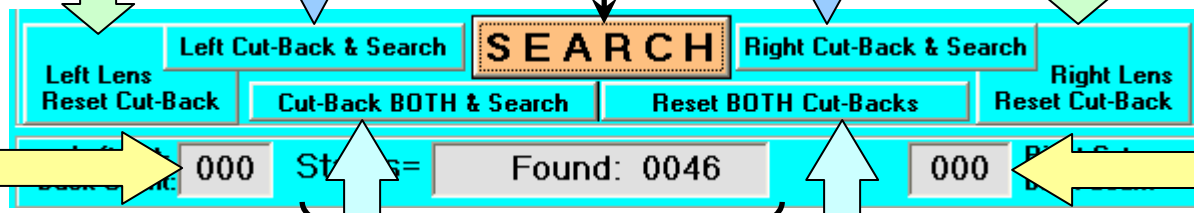
Number of cutbacks done on the Left lens.

Number of cutbacks done on the Right lens.

Click this button to cut back both the left and the right lens simultaneously and then do an automatic search.

Click this button to reset cutbacks that you have made both on the Left and Right lens prescriptions.

This is the status window. It shows the number of pairs you may have found when you click search. It also shows the number of people in the person list when you refresh this. Finally, it shows the number of eyeglasses in the inventory with you refresh this list.



This help covers the part of the screen which is shown below.

The first column of both the left and right side is the inventory number. Next comes the Sphere, Cylinder, Axis and Add. In parenthesis is the "Net Power". The Left and Right side will reverse when you click the **Reverse** button.

Additionally on the Left side you see the PD*** and number of rejects.

Enter the inventory number of the pair of glasses that you want and the list to the right will automatically be positioned there.

Inventory Number
1000

This tells you what model of autorefractor you are using.

Autorefractor Using is:
Canon RK-2

Total Inventory List ---[Click for help]---

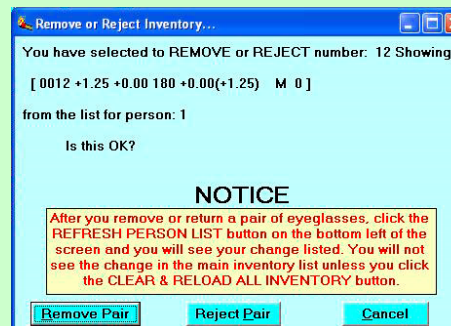
Left Eye Inventory							Right Eye Inventory						
Nr.	Sphere	Cylinder	Axis	Add (Pwr)	PD	Reject #	Nr.	Sphere	Cylinder	Axis	Add (Pwr)	(S R P B)	G
1000	+4.75	-3.50	006	+0.00(+3.00)	M	0	1000	+4.25	-3.50	003	+0.00(+2.50)	(xxxx)	F Ba
1001	+0.50	-0.25	090	+0.00(+0.38)	M	0	1001	+0.50	+0.00	000	+0.00(+0.50)	(xxxx)	F Ba
1002	+0.00	-1.50	084	+2.50(+1.75)	M	0	1002	+0.25	-3.50	098	+2.50(+1.00)	(xxx)	M B
1003	-4.50	+0.00	000	+0.00(-4.50)	M	0	1003	-5.00	+0.00	000	+0.00(-5.00)	(xxxx)	F Ba
1004	+0.25	-0.50	085	+2.25(+2.25)	M	0	1004	+0.50	-0.50	089	+2.25(+2.50)	(xxx)	M B
1005	+2.50	+0.00	000	+0.00(+2.50)	M	0	1005	+2.50	+0.00	000	+0.00(+2.50)	(xxxx)	M B
1006	+3.50	-1.25	098	+0.00(+2.88)	M	0	1006	+4.75	-1.25	081	+0.00(+4.13)	(xxxx)	M B
1007	+0.00	-0.75	101	+2.50(+2.13)	M	0	1007	+0.00	-2.00	017	+2.50(+1.50)	(xxx)	M B
1008	-1.00	-0.25	167	+2.75(+1.63)	M	0	1008	-0.75	-0.75	175	+2.75(+1.63)	(xxx)	M B
1009	+2.75	-0.25	100	+0.00(+2.63)	M	0	1009	+3.50	-0.50	020	+0.00(+3.25)	(xxxx)	M B
1010	+0.00	-0.25	007	+0.00(-0.13)	M	0	1010	+0.25	-1.00	179	+0.00(-0.25)	(xxxx)	F Ba
1011	+2.25	-2.25	093	+2.50(+3.63)	M	0	1011	+0.50	-3.00	083	+2.50(+1.50)	(xxx)	M B
1012	-5.50	-1.50	175	+0.00(-6.25)	M	0	1012	-6.00	-1.75	180	+0.00(-6.88)	(xxxx)	M Ba

Additionally on the right side you see flags (S R P B) for (Sunglasses, Readers, Progressive, and Bifocals). G is for gender where M=Male, F=Female, E=Either M/F, and C=Child.

Click this button to refresh the inventory list to omit those items which have been removed.

Click on the line for the pair you wish to remove. Click **Remove Pair** and it will be gone. Click **Reject Pair** and the rejected count for this pair will increment. Click **Cancel** if you clicked the wrong line.

If you click **REFRESH PERSON LIST** on the bottom / left, you can see the one you have removed. If you click **CLEAR AND RELOAD ALL INVENTORY** button, it will be gone in the inventory list.



Click here to Exit the program.

Footnote:
*** PD = Distance between Pupils.