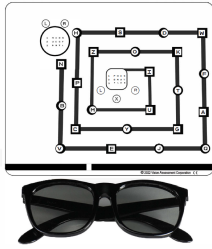


DOCTOR INSTRUCTIONS

Thank you for purchasing the Vision Assessment Corporation Spirex Variable Vectograph P/N 1063.



PURPOSE

A three-dimensional picture is used to strengthen the binocularity system and provide base-in and/or base-out training.

FAMILIARIZE YOURSELF WITH THE VECTOGRAPH

Vectograph Vision Therapy System consists of:

1 GUIDE



2 VECTOGRAPHIC PANELS

Panel 1 (Blue Bar at Bottom)

Panel 2 (Numbers/Letters at Bottom)

1 STANDARD VIEWER  (NOT TO BE USED AS SUNGLASSES)

2 Instruction Manuals

- Doctor Instruction Manual
- Patient Instruction Manual

This exercise works best if practiced daily as suggested. A Patient Instruction Manual has been included so the Vectograph Vision Therapy System can be sent home with the patient to allow for greater success through continued at-home usage and practice.

1 Patient Vision Therapy Record Form

TESTING CONDITIONS

- Well-lit, glare-free area
- If reflections or glare on the Vectograph can be seen, try tilting the test or choose another testing location

ADMINISTRATION

1. Place the polarized viewers on the patient.
2. **PLEASE NOTE:** DOCTOR SHOULD ADVISE WHETHER OR NOT POLARIZED VIEWERS SHOULD BE WORN OVER PATIENT'S PRESCRIPTION GLASSES.
3. Hold the Vectograph approximately 16 inches (40 cm) in front of the patient.
4. Slide the 2 panels in the guide until the 0 appears in the opening on the blue bar at the bottom of the test.
5. This Vectograph has both central and peripheral suppression checks. Ask the patient to locate the letter "X" in the center of the Vectograph.

6. The patient should be able to see both the L & R (Left & Right) on either side of the "X". If the patient is unable to see both letters L & R, instruct him/her to cover the opposite eye for the side he/she cannot see. For example, if the patient cannot see the R (Right), have him/her cover his/her left eye. Have the patient focus with the one eye until he/she is able to see the letter that was not previously seen when viewing the Vectograph binocularly. Then again have the patient view the Vectograph binocularly to ensure that now he/she can see both the L & R. Once both the L & R can be seen, the patient is ready to use the Vectograph.

The acuity lines can be used as additional suppression checks. Refer to the answer key section of this manual

7. For the peripheral suppression check, repeat step 6 while having the patient view the L & R above the circle in the upper left corner

8. Have the patient appreciate the overall depth spiraling downward:
Spirex Total Depth: 1500 seconds of arc, Letters Total Depth: 1600 sec.

9. Letters have been placed at various intervals along the Spirex. Some of the letters float out, way above their shape at 800 sec., some float slightly out at 400 sec., while some float slightly in, below their shape at 400 sec., others float way behind at 800 sec. and some are flat or even with their shape. Ask the patient to start at the outside of the Spirex and identify each letter and specify if the letter is above, below or even with its circle.

10. Ask the patient to try to form and spell out words using the various letters along the Spirex. While spelling the word ask the patient to indicate whether each letter floats way out, slightly out from its shape or slightly below or way below the shape or is even with it.

11. Refer to the "Scoring" section of this manual for the orientation of the letters.

12. Repeat steps 9-11 while slowly sliding the panels apart. Ask the patient to continue to try to maintain a single image.

13. Have the patient notify you when he/she is no longer able to fuse the Spirex image. (This is the Breaking Point).

14. Note the number/letter in the space on the blue bar at the bottom of the Vectograph. Refer to the "Scoring" section of this manual.

As the panels are separated and the blue bar moves along the letters from A to P, the Spirex image should get larger and float behind the Vectograph (divergence). As the panels are separated and the blue bar moves along the numbers from 1 – 24, the Spirex image should get smaller and float in front of the Vectograph (convergence).

15. Next, as you slowly slide the panels back together, ask the patient to notify you when he/she is able to see the Spirex image as a single clear image again. (This is the Recovery Point).

16. Note the number/letter in the in the space on the blue bar at the bottom of the Vectograph. Refer to "Scoring" section of this manual.

SCORING

- Each letter on the bottom blue bar represents one diopter (Base-In) (Divergence / Relaxing).
- Each number 1-10 on the bottom blue bar represents one diopter (Base-Out)(Convergence / Crossing).
- Each number 10-24 represents two diopters (Base-Out) (Convergence / Crossing).
- 40 diopter range of separation available.
- Refer to the Patient Vision Therapy Record Form.

- Record the date.
- Above the diagonal line in the row labeled "Relaxing" record the letter on the blue bar that the patient is able to reach.
- In the same row below the diagonal line record the Recovery Point for the highest letter from the blue bar at which the patient is able to fuse the images as a single clear image again.
- 40 diopter range of separation available.
- Refer to the Patient Vision Therapy Record Form.
- Repeat the previous 2 steps for the row labeled "Crossing" for recording the Breaking Point and Recovery Point for the highest numbers that the patient can reach on the blue bar at the bottom of the Vectograph.

SPIREX ANSWER KEY

	DIRECTION OFFLOAT	SECONDS OF ARC		DIRECTION OFFLOAT	SECONDS OF ARC
A	IN	800"	N	IN	400"
B	OUT	800"	O	IN	400"
C	IN	400"	P	OUT	400"
D	OUT	800"	Q	OUT	400"
E	OUT	400"	S	FLAT	0"
F	OUT	400"	T	FLAT	0"
G	IN	800"	U	IN	800"
H	IN	800"	V	IN	800"
I	FLAT	0"	W	IN	400"
J	FLAT	0"	Y	IN	400"
K	OUT	800"	Z	FLAT	0"
M	OUT	800"			

ACUITY SUPPRESSION ANSWER KEY

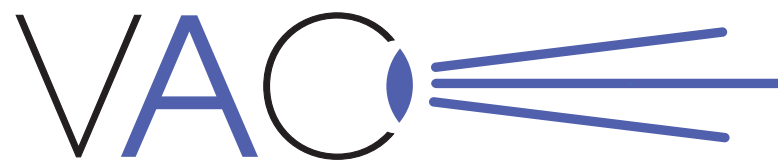
- *Upper Left Circle* LEFT EYE BINOCULAR RIGHT EYE
1 P H I S 2 G R A T 3 F L D E
- *Central Square* LEFT EYE BINOCULAR RIGHT EYE
1 M I E N 2 U C S F 3 S B T L

CARE/HANDLING & STORAGE

- Clean vectographic panels and guide with a soft, damp, lint-free cloth. Dampen cloth using glass cleaner or mild detergent/water.
- **CAUTION: DO NOT IMMERSE THE VECTOGRAPHIC PANELS IN WATER. DO NOT SPRAY CLEANER DIRECTLY ONTO PANELS.**
- ☀ ☂ Store Vectograph in a dry place away from direct sunlight
- Clean polarized viewers using lens cleaner and soft, lint-free cloth
- If panels are removed from guide during cleaning, replace the panels in the guide placing the panel with the blue bar on top of the panel with the numbers/letters and ensuring that the plastic portion of the guide is behind the panels.

WARRANTY

- 1-year manufacturer warranty from date of purchase



Vision
Assessment
Corporation TM

SPIREX

Polarized Variable Vectograph

P/N 1063

DOCTOR INSTRUCTIONS

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